

# **Curriculum for Paediatric Training**

## **Paediatric Allergy, Immunology and Infectious Diseases**

### **Level 1, 2 and 3 Training**

**Sept 2010**

**Revised and Approved by the GMC. For implementation from 1<sup>st</sup> August 2016**



<b>QUICK START TO THE CURRICULUM.....</b>	<b>5</b>
<b>INTRODUCTION.....</b>	<b>9</b>
<b><i>PROGRESSION IN THE PROFESSIONAL DEVELOPMENT OF A PAEDIATRICIAN .....</i></b>	<b>10</b>
<b>SECTION 1 – HOW TO USE THE COMPETENCY FRAMEWORK .....</b>	<b>11</b>
TRAINEE .....	12
TRAINERS/EDUCATIONAL SUPERVISORS/CLINICAL SUPERVISORS.....	13
<b>LEARNING .....</b>	<b>14</b>
<b>SUPPORT FOR LEARNING.....</b>	<b>14</b>
<b>SECTION 2 – THE COMPETENCY FRAMEWORK – GENERAL COMPETENCES .....</b>	<b>16</b>
DUTIES OF A DOCTOR .....	17
GOOD CLINICAL CARE .....	19
MAINTAINING GOOD MEDICAL PRACTICE .....	47
TEACHING, TRAINING, ASSESSING, APPRAISING .....	73
RELATIONSHIPS WITH PATIENTS .....	78
WORKING WITH COLLEAGUES .....	85
PROBITY .....	94
<b>SECTION 3 – SUB-SPECIALTY CONDITIONS IN PAEDIATRIC ALLERGY, IMMUNOLOGY AND INFECTIOUS DISEASES.....</b>	<b>98</b>
ALLERGY.....	99
IMMUNOLOGY.....	102
INFECTIOUS DISEASES .....	104
PAEDIATRIC HIV MEDICINE .....	110
<b>SECTION 4 – MAINTENANCE OF SPECIALTY-SPECIFIC COMPETENCES.....</b>	<b>111</b>
CARDIOLOGY.....	112
DERMATOLOGY .....	114
DIABETES AND ENDOCRINOLOGY .....	116
GASTROENTEROLOGY AND HEPATOLOGY .....	119
GENERAL COMPETENCES.....	119
GENETICS AND DYSMORPHOLOGY .....	122
GENERAL COMPETENCES.....	122
HAEMATOLOGY AND ONCOLOGY .....	123
INFECTION, IMMUNOLOGY AND ALLERGY.....	126
METABOLIC MEDICINE .....	128

MUSCULO-SKELETAL MEDICINE .....	129
NEONATOLOGY .....	131
NEPHRO-UROLOGY .....	138
NEUROLOGY AND NEURODISABILITY .....	141
OPHTHALMOLOGY .....	147
PALLIATIVE CARE .....	149
RESPIRATORY MEDICINE WITH EAR, NOSE AND THROAT .....	150
SAFEGUARDING .....	153
<b>PATIENT SAFETY.....</b>	<b>155</b>
<b>MEDICAL LEADERSHIP FRAMEWORK .....</b>	<b>155</b>
<b>SECTION 5 - ASSESSMENTS .....</b>	<b>156</b>
<b>ABOUT ASSESSMENTS.....</b>	<b>157</b>
<b>ASSESSMENT STANDARDS FOR LEVELS 1, 2 AND 3.....</b>	<b>168</b>
<b>ASSESSMENT BLUEPRINT.....</b>	<b>172</b>

## Quick Start to the Curriculum

### 1. What does the curriculum tell us?

The curriculum includes

- Competences that need to be achieved by trainees through their stages of training in becoming a paediatrician
- Assessment strategy through the whole of their training to successful completion and the award of a CCT (Certificate of Completion of Training)

### 2. Who does the curriculum benefit?

- **Trainees** will be able to develop their personal development plans and chart their progress through training, ensuring they are gaining the appropriate experiences and continuing to develop towards being a consultant. This contributes to appraisal, self-assessment, self-directed learning and educational meetings.
- **Trainers** will be able to ensure their trainees are developing in the correct areas and ensure their teaching covers the right areas. It will also help them complete their end of post review.
- **Tutors** will be able to ensure local teaching programmes map to the curriculum.
- **Lay people** will be able to see what their paediatricians are working towards in their training. A summary is contained within [Progression in the Professional Development of a Paediatrician](#)

### 3. How can we use the curriculum and its layout?

The curriculum lists the competences to be gained at each level of training. It is not a checklist to be completed by the trainee against every competence. The assessment strategy ensures that the curriculum is sampled adequately.

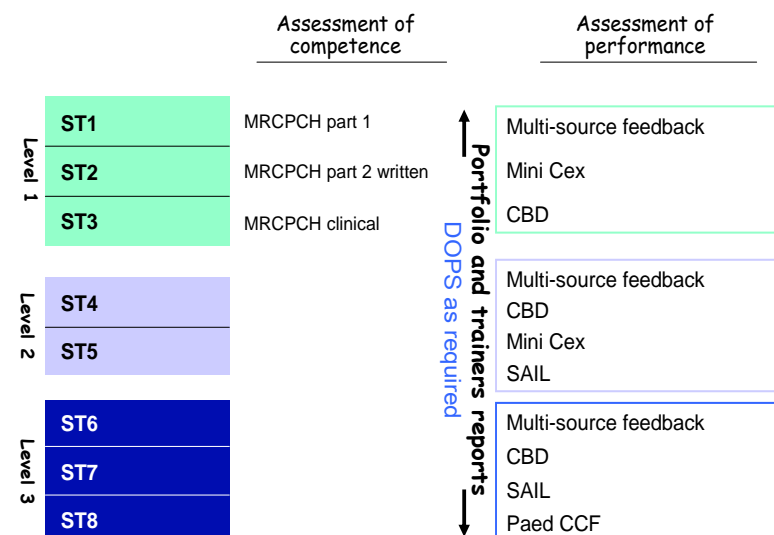
**Level 1 training / ST1-3** – previously SHOs, this stage is in the first (green) column

**Level 2 training / ST4-5** – middle grade is the middle (blue) column

**Level 3 training / ST6-8** – (at which stage some trainees will enter national grid training to train in a sub-specialty) this level is the final (purple) column.

The Contents Page contains hyperlinks to the relevant sections of the document.

## RCPCH assessment road map



**i) For those training towards being a General Paediatrician**

- Section 1 details how to use the document
- Section 2 gives the competences for a Level 1, Level 2 and General Level 3 trainee paediatrician in the overarching knowledge and skills required e.g. communication skills, teaching and training skills, research and audit, managing a consultation etc.  
The competences are listed under the most relevant assessment standard, e.g. the overall learning outcome. The progression of these competences can be followed through the levels of training
- Section 3 details the condition-specific knowledge and skills as a list. The level at which they are achieved is highlighted by a tick in the appropriate box and again the progression can be followed as the levels rise.
- Section 4 explains the assessments and the assessment system with the minimum assessment requirements for each year and at each level of training.  
See [About Assessments](#)

**ii) For those training towards a sub-specialty**

- Section 1 details how to use the document.
- Section 2 gives the competences for a Level 1, Level 2 and Level 3 sub-specialty trainee paediatrician in the overarching knowledge and skills required e.g. communication skills, teaching and training skills, research and audit, managing a consultation etc.  
The competences are listed under the most relevant assessment standard, e.g. the overall learning outcome. The progression of these competences can be followed through the levels of training.
- Section 3 contains the new knowledge and skills required for the sub-specialty conditions.
- Section 4 details the condition specific knowledge and skills for all the other specialties that need to be maintained throughout a trainee's final level of training.
- Section 5 explains the assessments and the assessment system.

**General Paediatrics or Subspecialty Training at Level 3**

By the end of level 3 training all successful trainees will be awarded a CCT in the specialty 'Paediatrics'. The initial core five years (ST1-5) is common to all trainees. In Level 3 training, trainees either continue in General Paediatric training or complete a subspecialty training programme. Following either route will require you to achieve a set of common generic competences to acquire at this stage of training as well as subspecialty specific competences. As a general paediatric trainee you will consolidate your training through a series of general posts. As a subspecialty trainee, whilst acquiring new knowledge and skills in a chosen sub-specialty you will also consolidate your general training and management of the patient with complex multisystem disease.

For further information on entry to sub-specialty training <http://www.rcpch.ac.uk/Training/NTN-Grid-Scheme>

#### **4. How will the curriculum competences be achieved?**

Learning will take place in a variety of settings with a range of approaches:

- Acute settings
- Community settings
- Handover
- Ward rounds
- Multi-disciplinary meetings
- Audits and research
- E-learning
- Seminars
- Lecture
- External training courses
- Reflective practice
- Self-directed learning

Most events in the workplace will contribute to the learning process. Trainees are encouraged to utilise all these opportunities as well as managing their study leave to work towards completing their personal development plan.

#### **5. How often should it be used?**

*By Trainees:*

The document is for reference and should be used to guide a trainee and trainer through the training programme. Some trainees may find it useful to use as a resource during reflection, helping them to assess what has been achieved and what still needs to be developed. The e-portfolio assists in this process by allowing the trainee to record comments on competences, attach evidence of achievement and highlight confidence in the areas.

*By Local Education Providers (usually a hospital trust)/School:*

LEPs and schools may use the curriculum to design the structured learning programme throughout the year.

**6. Is this the definitive guide?**

Yes – this is a comprehensive document detailing the fundamental knowledge skills and behaviours expected from a trained paediatrician working in the UK. Of course as paediatricians develop, they will gain greater knowledge and expertise and build on the elements within this programme.

**7. What can't I find?**

You won't find any specific details about individual training posts or programmes, formal educational courses or training opportunities – these will be provided by the Deanery, School of Paediatrics or Local Education Provider.

**8. Where to go with further questions?**

e-mail: [training@rcpch.ac.uk](mailto:training@rcpch.ac.uk)

telephone 020 7092 6000



## **Introduction**

The curriculum is for doctors in training in Paediatrics, their tutors, educational supervisors and other stakeholders (internal and external) with an interest in post-graduate medical education

The curriculum gives the doctor in training and their tutors' guidance about the areas that need to be covered. It gives a clear picture of what has to be achieved by the end of each stage of training.

The curriculum can be used to help identify areas of practice that need to be improved and those in which the trainee has confidence.

The competences that are gained during Level 1 training form the basis for progression into Level 2 and Level 3 training and onto consultant posts. The way in which the statements are written is intended to reflect this. The framework of competences reflects a spiral curriculum in that it asks the trainee to demonstrate continual development as their training progresses i.e. basic competences become more complex and sophisticated as the paediatrician in training works towards expertise. Table 1 illustrates this progression through training.

The competencies are expressed as learning objectives. These are the focus of training and at the end of each level of training the ARCP panel will want to know how well these objectives have been achieved. This document is to SUPPORT training and is not intended as an assessment document

### ***What is a Paediatrician?***

Paediatricians have a detailed knowledge and understanding of diseases in children. They are skilled in looking at health and ill-health in babies, children and adolescents, and at specific health issues, diseases and disorders related to these stages of growth and development. They develop expertise in practical procedures specifically related to the good clinical care of small babies and children. Paediatricians work in multi-disciplinary teams and with colleagues from a wide range of professional groups in hospitals, general practice and in the community, in social services and schools and with the voluntary sector. They have strong communication and interpersonal skills and take on a variety of roles within their different communities of practice. They share expertise effectively and assume the responsibilities of teaching, leadership and management roles where appropriate. They work with colleagues to ensure consistency and continuity in the treatment and care of children and young people in all aspects of their well-being. They are committed to a policy of advocacy for a healthy lifestyle in children and young people and for the protection of their rights.

Paediatricians are doctors who have a particular compassion and respect for children, young people and their families and enjoy working with them. They have an expert understanding of the ways in which illness affects the child, the parents and the rest of the family and are skilled in the management of emotionally complex family situations. They show patience and sensitivity in their communications with children and their families and a particular ability to explore each individual's perspectives of a problem. They are aware of religious and cultural beliefs that parents might hold about the treatment of their children. They know how to respond in these cases, when to seek support and where to find legal and ethical guidelines to support their practice.

Paediatricians ensure that they are up-to-date in their practice and endeavour to promote evidence-based medicine where possible. They are keen to develop innovative approaches to teaching in paediatrics and to research. They are committed to the highest standards of care and of ethical and professional behaviour within their specialty and within the medical profession as a whole. Central to their work is the principle that all decisions should be made in the best interests of the child or young person in their care.

***Progression in the Professional Development of a Paediatrician***

During Level 1	During Level 2 and 3	Continuing development as a consultant
<i>Acquires fundamental knowledge base</i>	<i>Applies knowledge base to provide appropriate clinical care</i>	<i>Evaluates knowledge and modifies clinical care pathways to enhance patient care.</i>
<i>Acquires clinical examination and assessment skills and applies these in clinical practice</i>	<i>Analyses clinical findings to derive appropriate differential diagnosis and management plans.</i>	<i>Evaluates assessment findings; refines and modifies management plans.</i>
<i>Acquires all basic technical skills and basic life support</i>	<i>Proficient at all basic technical procedures, some complex procedures and provides advanced life support.</i>	<i>May relinquish some skills in these areas dependent on area of clinical practice. May acquire specialty specific skills.</i>
<i>Performs allocated tasks and begins to plan tasks</i>	<i>Plans and prioritises tasks appropriately.</i>	<i>Increasing expertise with evaluation of priorities and appropriate delegation across a wide range of professionals.</i>
<i>Performs allotted teaching tasks</i>	<i>Plans and delivers teaching to trainees and other professionals. Develops peer mentoring skills.</i>	<i>Plans and modifies curricula. Performs assessment and appraisal. Able to provide mentorship.</i>
<i>Aware of management issues</i>	<i>Develops management skills and able to take responsibility for a defined project. Contributes to Committees.</i>	<i>Can negotiate and deal with conflict. Can contribute to and lead committees. Evaluates and modifies management structures.</i>
<i>Performs allocated audit projects and understands the audit cycle</i>	<i>Designs audit project and understands risk management. Able to write appropriate clinical guidelines. Understands the Clinical Governance implications</i>	<i>Facilitates audit, and evaluates results. Evaluates guidelines and ensures implementation of appropriate changes</i>
<i>Understands the principles of critical appraisal and research methodology</i>	<i>Able to appraise the literature critically and apply to clinical practice</i>	<i>Able to evaluate critical appraisal performed by others. Able to lead research projects and support others in research.</i>
<i>Works in multi-professional teams</i>	<i>Able to take the lead and accept leadership from other members of the multi-disciplinary team</i>	<i>Evaluates and modifies multi-professional team-working</i>

## **SECTION 1 – HOW TO USE THE COMPETENCY FRAMEWORK**

## **Trainee**

First of all ensure you have read the Introduction to understand the purpose and key principles of Paediatric Training.

You should then read the sections on Learning and Support for Learning which will enable to understand the system of workplace based learning and other educational opportunities that will be made available to you.

Then you should browse the competencies sections. The headings (assessment standards) are applied to a group of competencies will give you an idea of what you should be aiming to achieve throughout each level of training. The curriculum is separated out into Level 1, Level 2 and Level 3 competencies. However it is important you are aware of progression and achievement of higher level competencies.

The curriculum has the following structure

- Generic competences and generic clinical competences (e.g. history taking, consulting, clinical management, communication skills, teaching, management, law and ethics)
- Specialty-specific competences (e.g. cardiology, endocrinology etc.)

The competencies should be used at appraisals, for self assessment and self-directed learning to check your progression against the range that you are expected to achieve. Your educational meetings will support this process.

Following on from the competency framework is the assessment system which charts your progress through the training programme. You are expected to take the initiative with this; so you will need to read and familiarise yourself with this section too ([Section 4](#)). Each year you will be expected to produce evidence of progressing through the competencies at a suitable pace and achieving the appropriate assessments for the [Annual Review of Competency Progression \(ARCP\) Panel](#). This will be supported by educational supervision and e-portfolio.

There will be a local induction at the start of your programme which will further introduce how the programme will be delivered and assessed by your education provider. You will also be allocated an educational supervisor who will be responsible for your educational agreement, during your working hours you should be appropriately supervised and this may be your educational supervisor, clinical supervisor, a more senior trainee or another senior clinician.

Within paediatrics all consultants will have a role as trainer and the majority will have a role both as educational supervisor and clinical supervisor. Many specialty grade doctors (SASG) will undertake the role of clinical supervisor but few will take on the role of educational supervisor. All trainers will be required to have clinical credibility and the ability to teach within their chosen subject and demonstrate both an interest in their specialty and in trainee education and development.

***Trainers/Educational Supervisors/Clinical Supervisors***

Please read the Introduction and 'How to use the curriculum - Trainees' sections above.

Your roles will vary and may involve providing learning in the workplace, contributing to other forms of learning, providing workplace based assessments and clinical supervision, providing educational supervision and ensuring patient safety within the learning environment.

You should be supported in your role by the Local Education Provider and the Paediatric School and should receive training in all your different roles which contribute to postgraduate education. There should be adequate time within your job plan to carry out your agreed postgraduate training roles to a high standard.

As a **Clinical Supervisor** you will be required to be trained in assessment tools that you are using and will have responsibility for supervising the trainees' day to day clinical practice.

As an **Educational Supervisor** you will be required to have received training in and be familiar with all elements of the curriculum and assessment strategy. You will be required to provide formative developmental support for trainees e.g. acting as facilitator, mentor, supporting the development of the trainee's professionalism and ensure educational objectives are being achieved. You must fully understand the objectives of the period of training for which you are responsible.

For more detailed information please consult your LEP and Deanery for local procedures and the Gold Guide (<http://www.mmc.nhs.uk/pdf/Gold%20Guide%202009%20-%20Third%20edition%20v1.pdf>).

## **Learning**

Learning will take place in a variety of settings with a range of approaches:

- Acute settings
- Outpatient Clinics
- Community setting
- Handover
- Ward rounds
- Multi-disciplinary meetings
- Audits and research
- e-learning
- Seminars
- Lectures
- External training courses
- Reflective practice
- Self-directed learning

Trainees are encouraged to utilise the opportunities that arise at any time within the workplace, as well as managing their study leave to work towards the achievement of their personal development plan.

## **Support for Learning**

During the Local Education Providers' induction the trainee will be allocated an education supervisor and informed of the local processes for learning support.

The trainee has responsibility as an adult learner to set their own individual learning objectives for each training post/training programme with the support of their Educational Supervisor. The objectives should then be reviewed at regular intervals utilising the e-portfolio and by demonstrating improvement through the use of work-place based assessments.

There will be deanery processes in place to support any doctor in training who may need additional support. Examples where additional support will suggested may include (and not limited too)

- doctors who have a learning need
- a requirement for reasonable adjustment for the achievement of the competencies
- involvement in a serious incident
- disengagement with the educational process

## **Acting up as a consultant (AUC)**

“Acting up” provides doctors in training coming towards the end of their training with the experience of navigating the transition from junior doctor to consultant while maintaining an element of supervision.

Although acting up often fulfills a genuine service requirement, it is not the same as being a locum consultant. Doctors in training acting up will be carrying out a consultant’s tasks but with the understanding that they will have a named supervisor at the hosting hospital and that the designated supervisor will always be available for support, including out of hours or during on-call work. Doctors in training will need to follow the rules laid down by the Deanery / LETB within which they work and also follow the RCPCH rules which can be found at <http://www.rcpch.ac.uk/training-examinations-professional-development/postgraduate-training/resources-trainees-training-s-4>

## **SECTION 2 – THE COMPETENCY FRAMEWORK – GENERAL COMPETENCES**



***Duties of a Doctor***

Knowledge, Skills and Performance

This section details the competences that reflect the overall role of the paediatrician and the behaviours that demonstrate the principle that all decisions should be made in the best interest of the child.

For more information on assessment please see the [assessment blueprint](#)

	<b>Level 1 (ST1-3)</b>	<b>Level 2 (ST4-5)</b>	<b>Level 3 (ST6-8)</b>
<b>1</b>	<b>an understanding of the roles and responsibilities of paediatricians</b>	<b>a commitment in their practice to the roles and responsibilities of paediatricians</b>	<b>a commitment to advocate for the individual child in her/his particular context</b>

**Duties of a Doctor**

Knowledge, Skills and Performance

**Assessment Standard 1**

Standard 1	Level 1 (ST1-3) an understanding of the roles and responsibilities of paediatricians	Level 2 (ST4-5) a commitment in their practice to the roles and responsibilities of paediatricians	Level 3 (ST6-8) a commitment to advocate for the individual child in her/his particular context	Assessments
	<p>Trainees will:</p> <p>understand the duties and responsibilities of a paediatrician in the safeguarding of babies, children and young people</p> <p>understand the duties and responsibilities of a paediatrician to support and enable parents and carers to be effective in caring for their children</p> <p>understand the limitations of their competence at this stage of their training and know where and when to ask for help, support or supervision - particularly in relation to safe recognition and management of seriously ill children and young people</p> <p>begin to understand their role in the management of chronic illness in children and young people</p> <p>understand and follow the principle that all decisions are to be made in the best interests of the child or young person in their care</p> <p>develop an understanding of the concept of advocacy for a healthy lifestyle in children and young people and for the protection of their rights</p> <p>understand the responsibility of paediatricians to consider all aspects of a child's well-being including biological, psychological and social factors</p>	<p>understand the limitations of their competence, in relation to safe clinical practice and in their relationships with patients and know where and when to ask for help, support and supervision</p> <p>understand their role in managing the consequences of chronic illness for a child and family</p> <p>take on an advocacy role with regard to the best interests of the patient; to ensure appropriate care for patients</p> <p>show that they consider all aspects of a child's well-being including biological, psychological and social factors</p>	<p>understand the duty of all professionals working with children to report concerns about child protection issues to Social Services</p> <p>be able to manage and know how to obtain support for the consequences of chronic illness for a child, young person and their family</p> <p>be committed to a policy of advocacy for a healthy lifestyle in children and young people and for the protection of their rights</p>	<p>Multisource Feedback LEADER and ePortfolio</p>

**Good Clinical Care**

Knowledge, Skills and Performance. Communication , partnership and teamwork

This section describes the generic competencies (knowledge, skills and behaviour) that relate to clinical practice and the importance of the child's needs e.g. APLS, history taking, clinical examination (assessment standards 2-8), promotion of patient safety and therapeutics and prescribing (standards 9-12) and safeguarding children (assessment standard 13).

For more information on assessment please see the [assessment blueprint](#)

	Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
2	Effective responses to challenge, complexity and stress in paediatrics	increasing credibility and independence in response to challenge and stress in paediatrics	responsibility for an effective response to complex challenges and stress in paediatrics
3	advanced neonatal and paediatric life support skills	leadership skills in advanced neonatal paediatric life support	effective responses to life-threatening situations and to unpredictability in paediatric clinical situations
4	effective skills in three-way consultation and examination	responsibility for conducting effective paediatric assessments and interpreting findings appropriately	commitment to focussed and analytic assessments of common and complex clinical problems in paediatrics
5	effective skills in paediatric assessment	responsibility for conducting effective paediatric assessments and interpreting findings appropriately	commitment to focussed and analytic assessments of common and complex clinical problems in paediatrics
6	skills in formulating an appropriate differential diagnosis in paediatrics	improving skills in formulating an appropriate differential diagnosis in paediatrics	effective skills in making safe decision about the most likely diagnosis in paediatrics
7	effective initial management of ill-health and clinical conditions in paediatrics seeking additional advice and opinion as appropriate	responsibility for the effective management of common acute and chronic conditions in paediatrics seeking additional advice and opinion as appropriate	leadership skills in the management of common and complex conditions in general paediatrics and paediatric sub-specialties seeking additional advice and opinion as appropriate

<b>8</b>	<b>knowledge, understanding and recognition of common, behavioural, emotional and psychosocial aspects of illness in children and families</b>	<b>effective skills in recognising and responding to behavioural, emotional and psychosocial aspects of illness in children and families</b>	<b>effective skills in ensuring the management of behavioural, emotional and psychosocial aspects of illness in children and families</b>
<b>9</b>	<b>safe practical skills in paediatrics</b>	<b>effective skills in performing and supervising common practical procedures in paediatrics ensuring patient safety</b>	<b>expertise in a range of practical procedures in paediatrics specific to general and sub-specialist training</b>
<b>10</b>	<b>clear record-keeping and report-writing</b>	<b>improving skills in written communication for a range of audiences</b>	<b>effective skills in written communications for a range of audiences, for children and their families, colleagues and other organisations</b>
<b>11</b>	<b>reliable responses to investigations in paediatrics</b>	<b>effective leadership skills in undertaking initial investigations in children, based on an understanding of the risks and benefits in each case</b>	<b>effective collaboration with other specialists in using and interpreting complex investigations undertaken in children</b>
<b>12</b>	<b>knowledge and skills in safe prescribing of common drugs in paediatrics</b>	<b>improving safe prescribing in paediatrics and in advising others appropriately</b>	<b>responsibility for safe prescribing in common and complex situations and for the supervision of others</b>
<b>13</b>	<b>an understanding of safeguarding and vulnerability in paediatrics</b>	<b>effective skills in the assessment of cases of safeguarding and in contributing to their management</b>	<b>effective skills in advising other agencies in safeguarding cases</b>

**Good Clinical Care**

Knowledge, Skills and Performance

**Assessment Standard 2**

Standard 2	Level 1 (ST1-3) Effective responses to challenge, complexity and stress in paediatrics	Level 2 (ST4-5) increasing credibility and independence in response to challenge and stress in paediatrics	Level 3 (ST6-8) responsibility for an effective response to complex challenges and stress in paediatrics	Assessment
Competencies	Trainees will:			
	<div>in complex difficult communication situations with children and families show awareness and have begun to develop strategies to respond</div> <div>begin to develop skills in the management of emotionally complex family situations</div>	<div>have developed skills and strategies to manage their personal emotional reactions effectively to allow effective communication on response to distress from others</div> <div>develop the confidence to be firm and diplomatic in difficult situations, e.g. when dealing with anger</div>	<div>have developed effective skills in the management and communication of emotionally complex family situations</div>	ALL

**Good Clinical Care**

Knowledge, Skills and Performance

**Assessment Standard 3**

Standard 3	Level 1 (ST1-3) advanced neonatal and paediatric life support skills	Level 2 (ST4-5) leadership skills in advanced neonatal paediatric life support	Level 3 (ST6-8) effective responses to life-threatening situations and to unpredictability in paediatric clinical situations	Assessments
Competencies	Trainees will:			APLS/ NLS or equivalent, MSF, DOPS, CbD and logbook
	be able to respond appropriately to cardiac arrest			
	be able to provide advanced neonatal and acute life support as demonstrated by successful completion of and assessment by recognised course	be able to provide advanced neonatal and acute paediatric life support and lead the team at a cardiac arrest		
	be able to carry out resuscitation using bag, mask ventilation and cardiac compressions			
	be able to intubate term babies and have had supervised experience of intubating pre-term babies	be able to intubate newborn infants of most gestations without direct supervision		
		be able to teach basic life support to junior healthcare professionals	be able to advise the team providing ALS and to liaise effectively with anaesthetic and PICU staff	

**Good Clinical Care**

Knowledge, Skills and Performance

**Assessment Standard 4**

Standard 4	Level 1 (ST1-3) effective skills in three-way consultation and examination	Level 2 (ST4-5) responsibility for conducting effective paediatric assessments and interpreting findings appropriately	Level 3 (ST6-8) commitment to focussed and analytic assessments of common and complex clinical problems in paediatrics	Assessments
Competencies	Trainees will:			
	the need to anticipate and respond sensitively to children and young people who are suggesting unease or unwillingness about a physical examination and begin to develop appropriate strategies to reassure	have developed strategies to anticipate and respond sensitively to children and young people who are suggesting unease or unwillingness about a physical examination		
	Be able to take a history accurately and sensitively that routinely includes biological, psychological, educational and social factors in the child and family	take responsibility for an effective consultation that routinely includes biological, psychological, educational and social factors in the child and family	take a history from a child or young person and parent of the presenting difficulties to acquire information in sufficient breadth and depth in a range of possible symptom areas to allow accurate formulation of the problem	
	have begun to develop skills and strategies to manage consultations effectively with babies, young children, adolescents and their families	Have developed effective consultation skills and strategies with babies, young children, adolescents and their families		
	Be able to examine children and young people accurately and sensitively in appropriate settings			
	understand the need to conduct a consultation in such a way that a child or young person and their family may feel able to talk about difficult or emotional issues	the ability to conduct a consultation in such a way that a child or young person and their family feel able to talk about difficult or emotional issues		
	have begun to develop skills to involve both the child and parents or carers when both are present in consultations			
	know about and begin to develop skills to prevent disruptive or antisocial behaviour in children, families and adolescents in clinical settings and to respond to them if they occur	have developed skills in recording consultations accurately and sensitively whilst maintaining rapport Has developed skills to help prevent disruptive or antisocial behaviour in children, families and adolescents in clinical settings and to respond to them if they occur		

CbD, MiniCeX, MRCPCH, HAT, ACAT

**Good Clinical Care**

Knowledge, Skills and Performance

**Assessment Standard 5**

Standard 5	Level 1 (ST1-3) effective skills in paediatric assessment	Level 2 (ST4-5) responsibility for conducting effective paediatric assessments and interpreting findings appropriately	Level 3 (ST6-8) commitment to focussed and analytic assessments of common and complex clinical problems in paediatrics	Assessments
	<p>Trainees will:</p> <p>recognise case histories which suggest serious or unusual pathology in children</p>	<p>recognise features of undifferentiated illness which suggest serious or unusual pathology and initiate the appropriate clinical response with appropriate urgency</p> <p>recognise the diseases and host characteristics which make certain presentations life-threatening and manage these situations with vigilance and appropriate urgency</p>	<p>be able to re-examine undifferentiated illness for serious and unusual illness and recognise potential misdiagnoses</p> <p>have developed the self knowledge, confidence and personal high standards to acknowledge where an assessment might not be comprehensive and to go back to the child, young person and their family for further information</p> <p>recognise the breadth of different presentations of common disorders</p> <p>be able to assess and manage co-morbidities associated with the range of paediatric presentations</p>	
Competencies	<p>Recognise presentations of common disorders in children</p> <p>assess symptoms and signs accurately</p> <p>recognise the diseases and host characteristics which make certain presentations life-threatening in children and know when to ask for help</p>	<p>assess signs and symptoms accurately and interpret findings appropriately</p> <p>Know about the use of standardised questionnaires in assessing behaviour</p>	<p>Supplement clinical assessment with standardised instruments or questionnaires</p> <p>know when to gather information from other professionals e.g. those working in education, social work or from others who see the child in a variety of settings</p> <p>be able to assess patterns of relationships and functioning within a family and how these might impact on a child's or young person's illness, seeking professional advice where appropriate</p>	MRCPC, CbD, MiniCex, HAT, ACAT, START and ePortfolio



**EMPHASIS ON ALLERGY**

**Be able to assess and advise on the future risk of anaphylaxis and allergic reactions and facilitate an appropriate management plan by liaising with community teams**

**Be able to identify factors which exacerbate acute atopic conditions, to advise parents and families appropriately about allergen reduction and avoidance at homes and in schools**

MRCPC, CbD, MiniCex, HAT, ACAT, START  
and ePortfolio

**Good Clinical Care**

Knowledge, Skills and Performance

**Assessment Standard 6**

Standard 6	Level 1 (ST1-3) skills in formulating an appropriate differential diagnosis in paediatrics	Level 2 (ST4-5) improving skills in formulating an appropriate differential diagnosis in paediatrics	Level 3 (ST6-8) effective skills in making safe decision about the most likely diagnosis in paediatrics	Assessments
	Trainees will:			
Competencies	begin to develop analytic, clinical reasoning skills	show regular use of analytic, clinical reasoning	be able to approach new situations which require good clinical judgement with an analytical and informed choice	MRCPC, MSF, CbD, MiniCeX, ACAT and START
	be able to formulate a differential diagnosis	be able to make a decision on the most likely diagnosis and discuss this effectively with children and young people and their parents or carer and with other colleagues	be able to make a decision on the most likely diagnosis and discuss this effectively with children and young people and their parents or carer and with other colleagues in the context of investigation and management	
			<b>EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES</b> Be able to recognise different patterns of clinical representation of primary immunodeficiency disorders and understand the basis for laboratory testing for these disorders	

**Good Clinical Care**

Knowledge, Skills and Performance

**Assessment Standard 7**

Standard 7	Level 1 (ST1-3) effective initial management of ill-health and clinical conditions in paediatrics seeking additional advice and opinion as appropriate	Level 2 (ST4-5) responsibility for the effective management of common acute and chronic conditions in paediatrics seeking additional advice and opinion as appropriate	Level 3 (ST6-8) leadership skills in the management of common and complex conditions in general paediatrics and paediatric sub-specialties seeking additional advice and opinion as appropriate	Assessments
Competencies	Trainees will:			
	understand the importance of effective strategies for the management of pain		be able to appropriately manage chronic pain syndromes and know when to refer for expert opinion	
	be able to assess and initiate management of patients appropriately	be able to take responsibility for the longer term management of patients with common acute and long term conditions	to be able to take responsibility for the longer term management of common acute and chronic cases leading or working with teams, sub-specs or other services	
	understand the importance of negotiated management plans for individual patients and families, including self-care strategies	show that they understand and take into account when agreeing management plans, factors that influence children, young people and parents and carers in their approach to following prescribed management and treatment plans	be able to review and modify a management plan as appropriate and know when to request help from a senior colleague or other services	
	Understand and have the ability to recognise Acute Kidney Injury in acutely ill children and young people	Be able to recognise and initially manage Acute Kidney injury in acutely ill children and young people with senior support	Be able to recognise and safely manage Acute Kidney Injury and its complications in acutely ill children with support from specialist paediatric nephrology services	
		be able to initiate appropriate investigations and management plans appropriate to the case	assess and manage co-morbidities associated with the range of paediatric presentations	
	begin to make common decisions in the care of patients	show increasing confidence and independence in decision making in the care of general paediatric patients	show confidence and independence in the decision-making in the care of patients	
		be able to formulate an initial management plan for complex cases including the need for specialist advice	be able to formulate a management plan for complex cases	

MRCPC, MSF, Cbd, MiniCeX, HAT, LEADER, START and ePortfolio

understand the factors which influence children, young people and parents or carers in their approach to following prescribed management and treatment plans		be able to seek the views of children and young people whatever their illness, regarding individual care and service planning, using expert resources appropriately to help them follow management plans
begin to develop strategies to help children, young people and their families to follow management/treatment plans	show that they are developing strategies to help children, young people and their families to follow management plans	
	Begin to understand the process of bereavement in children and families	be able to develop and work within care pathways
		understand the process of bereavement in children and families and recognise abnormal grieving patterns
		<b>EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES</b> <b>Know when to use antimicrobial prophylaxis and which treatments to use</b>
		<b>Know when to use immuno-modulatory therapy and which treatments to use</b>
		<b>Have the knowledge and skills to be able to assess and initiate acute and long-term management of children presenting with immunological, infectious and allergic conditions</b>
		<b>Be able to investigate and manage infections with specific micro-organisms</b>
		<b>Be able to manage auto-immune disorders in children and young people</b>
		<b>Be able to investigate and manage infection and/or inflammation of specific organ systems</b>
		<b>Be able to investigate and manage systemic infections and/or inflammation including sepsis and toxic shock</b>

<b>Be able to investigate and manage infection of the immuno-compromised host including those undergoing bone marrow transplantation and or solid organ transplantation</b>
<b>Be able to investigate and manage fever of an unknown origin</b>
<b>Be able to investigate and manage infections of the foetus and newborn</b>
<b>Be able to investigate and manage the protean presentation of tuberculosis in a child and its contacts</b>
<b>EMPHASIS ON ALLERGY</b> <b>Be able to manage, investigate and follow up children presenting with allergic conditions</b>

MRCPC, MSF, CbD, MiniCeX, HAT, LEADER, START  
and ePortfolio

**Good Clinical Care**

Knowledge, Skills and Performance

**Assessment Standard 8**

Standard 8	Level 1 (ST1-3) knowledge, understanding and recognition of common, behavioural, emotional and psychosocial aspects of illness in children and families	Level 2 (ST4-5) effective skills in recognising and responding to behavioural, emotional and psychosocial aspects of illness in children and families	Level 3 (ST6-8) effective skills in ensuring the management of behavioural, emotional and psychosocial aspects of illness in children and families	Assessments
	<p>Trainees will:</p> <p>know about normal emotional and behavioural development and how it may affect the child and family at different stages</p> <p>be able to look at behaviour as a form of communication and to take this into account when interviewing, examining and assessing children</p> <p>has begun to develop an approach to the assessment of behaviour problems that uses observation as well as history-taking</p> <p>have begun to develop strategies and skills to support and engage parents of children with emotional or mental health difficulties</p> <p>know about the effects of developmental difficulties and physical diseases on behaviour and vice versa</p> <p>know about the multi-disciplinary nature of the Child and Adolescent Mental Health Services</p> <p>Recognise the effects of school and other social settings on childhood illness and vice versa</p> <p>know the principles of managing common behaviour problems such as temper tantrums, sleep problems, the crying baby, feeding difficulties, oppositional behaviour, enuresis and encopresis, school refusal</p>	<p>be able to recognise when behaviour features may indicate an underlying cause and to be able to refer appropriately for further assessment</p> <p>have developed an approach to the assessment of behaviour problems that uses observation and information from other sources, such as school as well as history taking</p> <p>have developed some strategies and skills to support and engage parents of children with emotional or mental health difficulties</p> <p>know about the effects of developmental difficulties and physical diseases on behaviour and vice versa and be able to recognise when this occurs</p> <p>know about the multi-disciplinary nature of the Child and Adolescent Mental Health Service and be able to apply this knowledge in discussion of cases</p> <p>are able to manage common behaviour problems such as temper tantrums, sleep problems, the crying baby, feeding difficulties, oppositional behaviour, enuresis and encopresis, school refusal</p>	<p>Understand the impact of illness on mental functioning, for both children, young people and their parents and the effects of each upon behaviour and functioning of the other</p> <p>Understand the impact of relations and mental health upon a child or young person's current and past emotions and behaviour</p> <p>be able to manage and contribute as part of a team to ongoing management of common behaviour problems such as temper tantrums, sleep problems, the crying baby, feeding difficulties, oppositional behaviour, enuresis and encopresis, school refusal</p>	<p>Assessments</p> <p>MRCPC, MSF, CbD and START</p>

know about the initial assessment and management of common causes of admission to hospital due to psychological distress such as self-harm, somatic symptoms of distress	are able to undertake the initial assessment and management of common causes of admission to hospital due to psychological distress such as self-harm, somatic symptoms of distress and to refer on when appropriate	initiate management and effectively engage and contribute to ongoing multi-disciplinary care
know about the signs and symptoms that indicate serious conditions such as ADHD, autistic spectrum disorders, depression, psychosis	be able to recognise signs and symptoms that could indicate serious conditions such as attention deficit hyperactivity disorder, autistic spectrum disorders, depression, psychosis	<b>EMPHASIS ON ALLERGY</b> <b>Recognise the role of allergy in polysymptomatic illness and behavioural problems, investigate and adjust management plans appropriately</b>
know about the effects of substance abuse		
Recognise the mental health components of paediatric illness		understand the ways in which children's or young people's mental health difficulties may present in infancy, childhood and adolescence
Be able to assess the mental state of children and young people		Be able to undertake an assessment of the mental state of children and young people taking into account their age and stage of development and know whether they have the skills to help them and when to seek more expert paediatric mental health or psychiatric assessment
		understand the impact of biological factors, including genetic and cognitive factors on the mental health of children and young people
	know how to manage common behavioural problems	
	Understand the possible medical and psychosocial reasons which might lie behind a patient's difficult behaviour	
		understand the emotional dimensions of eating disorders and recognise and initiate treatment
		recognise the need for specialised input in the case of serious emotional distress or mental illness and ensure their needs are met within local health provision

**Good Clinical Care**

Knowledge, Skills and Performance

**Assessment Standard 9**

Standard 9	<b>Level 1 (ST1-3)</b> safe practical skills in paediatrics	<b>Level 2 (ST4-5)</b> effective skills in performing and supervising common practical procedures in paediatrics ensuring patient safety	<b>Level 3 (ST6-8)</b> expertise in a range of practical procedures in paediatrics specific to general and sub-specialist training	Assessments
	Trainees will:			
	to recognise the importance of universal precautions as well as the discarding of sharps within the department			
	know the contraindications and complications of procedures	recognise complications of procedures and be able to respond appropriately		
	know the local guidelines for providing sedation and pain relief for practical procedures			
	know the relevant markers for invasive procedures			
	know and practise aseptic techniques			
	know the appropriate indications, local and national guidelines for undertaking investigations or procedures			
Competencies				
MSF, DOPs, ePortfolio, ACAT, Cbd and logbook				

MSF, DOPs, ePortfolio, ACAT, Cbd and logbook



be able to use all equipment required to undertake common procedures and investigations		
perform independently or under supervision where appropriate the range of diagnostic and therapeutic procedures expected at this stage of training	have developed confidence in independent performance of practical procedures	have developed expertise in practical procedures specifically related to the clinical care of small babies, children and young people
be aware of safety issues for patients and staff in relation to investigations of bodily fluids and radiation	know about processes for critical incident reporting	
be aware of the factors that are likely to influence the anxiety of the child and how to enlist the help of play leaders		
know the local and national guidelines for obtaining informed consent	obtain informed consent appropriately	
understand and follow the local guidelines for the prevention and management of needle stick injuries		
	have experience of speaking to parents when complications have occurred	
develop expertise in practical procedures specifically related to the clinical care of small babies , children and young people		

<b>Know about and have experience of caring for patients with central venous access devices</b>
<b>Understand the principles of quality control in laboratory testing</b>
<b>Know how to obtain and handle appropriately the necessary diverse clinical specimens for diagnosis of infections</b>
<b>EMPHASIS ON ALLERGY</b> <b>Be able to administer immunotherapy injections safely, including side effect monitoring and dosage adjustment</b>
<b>Be able to treat local and systemic reactions following immunotherapy injections</b>

MSF, DOPs, ePortfolio, ACAT, CbD and logbook

TRAINEES WILL BE ABLE TO PERFORM INDEPENDENTLY (* may need supervision):
Collection of blood from central lines
Electrocardiogram
Lumbar puncture
Non invasive blood pressure measurement
Umbilical artery and venous cannulation and sampling
Suprapubic aspiration of urine
Urethral catheterisation, venesection, cannulation, and capillary blood sampling
Peripheral arterial cannulation
Routine testing of urine
Perform basic lung function tests

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
✓		
✓		
✓		
✓		
✓		
✓		
✓		
*	✓	
	✓	
	✓	

TRAINEES WILL BE ABLE TO PERFORM INDEPENDENTLY (* may need supervision):
Bag, valve and mask ventilation
External chest compression
Tracheal intubation of term newborn babies
Tracheal intubation of pre-term and older child
Administer intradermal, subcutaneous, intramuscular and intravenous injections
<b>Administer intradermal injections for example, for Mantoux testing or BCG</b>
Percutaneous long line insertion
Administration of surfactant
Intubation of newborn infants of most gestations
Needle thoracentesis for pleural effusion or pneumothorax
Insertion of intraosseous needle
Perform needle thoracocentesis
Intubation of extremely immature babies or those with congenital malformation
Draining a pneumothorax in babies and older children
Neonatal chest drain insertion
Exchange transfusion (full and partial)
Cranial ultrasound scanning
Cerebral ventricular tap
Abdominal paracentesis

✓		
✓		
✓		
*		
*	✓	
		✓
*	✓	
*	✓	
	✓	
	✓	
*	✓	
*	✓	
	*	
	*	
	*	
	*	
	*	
	*	
	*	

**Good Clinical Care**

Knowledge, Skills and Performance

**Assessment Standard 10**

Standard 10	Level 1 (ST1-3) clear record-keeping and report-writing	Level 2 (ST4-5) improving skills in written communication for a range of audiences	Level 3 (ST6-8) effective skills in written communications for a range of audiences, for children and their families, colleagues and other organisations	Assessments
	<p>Trainees will:</p> <p>have understood the need for careful record-keeping and report-writing</p>	<p>Be thorough in making accurate records and reports that will subsequently withstand scrutiny in a Court of Law or a complaints tribunal, and encourage others to do the same</p> <p>be able to write reports that explain the condition of a child or young person to non-health personnel working in the Courts, social services or education making use of more experienced colleagues when necessary</p>	<p>be able to prepare a court report as a professional witness and develop the skills to present such material in court</p> <p>write reports that explain the condition of a child or young person to non-health personnel working in the Courts, social services or education</p>	
Competencies	keep accurate, legible and relevant medical records			MSF, Cbd, ACAT, LEADER, DOC and ePortfolio
	begun to develop effective written communications with patients and their families, with colleagues and with other professional organisations	Have developed skills for effective written communications with patients and their families, with colleagues and with other professional organisations	have effective skills in written communications for a range of audiences, for patients and their families, colleagues and other professional organisations	
	be able to use information technology effectively in clinical practice and audit		be able to use electronic communication media, taking into account the principles of confidentiality outlined in the Data Protection Act	
	know how to access clinical databases and where to go to find web-based information			

ensure that written communications summarise accurately discussions with young people and parents or carers, and, to avoid confusion and anxiety, do not include info that was not part of the original discussion

be able to write reports on medical or developmental conditions for parents and non-clinical staff in education and elsewhere that are easily understood by the lay person and that explains the implications of the condition and how it may impact on her or his carers in non-clinical settings

ensure that written information in the form of booklets, leaflets information sheets and websites support verbal communications wherever possible

ensure that spoken and written communications with patients and families are presented in clear straightforward English, avoiding jargon whenever possible

have developed skills in the presentation of information relevant to their clinical practice for a range of audiences including spoken presentations at meetings, written information for children and families and training materials for different groups of colleagues

MSF, Cbd, ACAT, LEADER, DOC and ePortfolio

**Good Clinical Care**

Knowledge, Skills and Performance

**Assessment Standard 11**

Standard 11	<b>Level 1 (ST1-3)</b> <b>reliable responses to investigations in paediatrics</b>	<b>Level 2 (ST4-5)</b> <b>effective leadership skills in undertaking initial investigations in children, based on an understanding of the risks and benefits in each case</b>	<b>Level 3 (ST6-8)</b> <b>effective collaboration with other specialists in using and interpreting complex investigations undertaken in children</b>	Assessments
Competencies	Trainees will: be able to explain the investigation results to parents and/or the child			
	demonstrate safe practice in the timely and appropriate requests for investigations			
	be able to initiate appropriate investigations	be able to initiate appropriate investigations and management plans appropriate to the case		
	be able to interpret results of investigations requested and respond appropriately	recognise when results of commonly used radiological investigations are abnormal		
	be able to record results and document procedures legibly and accurately			
	be able to give appropriate medical information when requesting investigations			
	know that results should be requested clearly and retrieved promptly			
	understand common age appropriate normal ranges and appearances			
	be receptive to feedback from patients and parents/carers on the effects of medication/treatment			
	be aware of the role of complex investigations e.g. CT and MRI scans and their diagnostic potential and complications	know about the role of complex investigations e.g. CT and MRI scans and their diagnostic potential and complications		MRCPC, MSF, CbD and LEADER

know when to seek advice regarding further investigations of a child or interpretation of an abnormal result

participate in discussions of abnormal results with services, radiologists, staff and formulate approach to management and follow up of uncommon/abnormal results

be aware of the multi-disciplinary investigation of sudden unexpected death in infancy and childhood

ability to safely and effectively manage results of all investigations in the interest of the child, seeking expert advice appropriately

Have experience of working in clinical microbiology, virology and immunology laboratories so as to understand the range of limitations of diagnostic tests available

Understand the immune function testing and be able to interpret the results including specific antibody assays complement, phagocytic cell , T cell tests

Understand the molecular genetic tests available for diagnosis basis of primary immunodeficiency disorders

Be able to interpret relevant ancillary test such as chest CT scan, lung function tests

**EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES**  
Know and understand how to investigate and manage infections with specific micro-organisms

**EMPHASIS ON ALLERGY**  
Know and understand the use and limitations of skin-prick testing and measurement of total and specific IgE

Know the value of diagnostic allergy testing set against the advantages and problems of direct organ challenge

Know about alternative allergy testing and methods of treating allergies

MRCPCCH, MSF, CbD and LEADER

**Good Clinical Care****Assessment Standard 12****Knowledge, Skills and Performance**

Standard 12	Level 1 (ST1-3) knowledge and skills in safe prescribing of common drugs in paediatrics	Level 2 (ST4-5) improving safe prescribing in paediatrics and in advising others appropriately	Level 3 (ST6-8) responsibility for safe prescribing in common and complex situations and for the supervision of others	Assessments
Competencies	Trainees will:			
	Know and understand the pharmacological basis for treatments			
	Be able to prescribe safely for the newborn and for children of all ages		Be able to prescribe safely and supervise the prescription for the newborn and for children of all ages	
	Know the approved indications and justification for prescribing drugs in common paediatric problems Know the pharmacokinetics and pharmacodynamics of commonly prescribed drugs			
	Know about the drug interactions of commonly used drugs			
	Be aware of possible drug interactions of commonly used drugs where more than one drug is prescribed	know about drug interactions of commonly used drugs	be aware of different patterns of drug reaction and of the common precipitants of cutaneous drug reactions	
	Know how to report adverse effects	Respond appropriately to errors of prescription or administration and be able to talk to parents about this	be aware of how to appropriately investigate an adverse drug effect or prescription error	
	recognise serious drug reactions for example Stevens-Johnson Syndrome			
	Know the risks of prescribing in the child-bearing years, in pregnancy and breast feeding mothers			
	understand the principles of prescribing for newborn babies and breast feeding mothers	be able to prescribe for newborn babies and breast-feeding mothers		
	Understand the principles of prescribing in children with renal function	be able to prescribe for children with reduced renal function using the BNF for children and understand		

MRCPCB. CbD and START



	when more experienced advice may be necessary	
Know about the roles of the regulatory agencies involved in drug use, monitoring and licensing		
Know about the licensing of medicines for paediatric patients and unlicensed and off-label use		know about the licensing of medicines for paediatric patients and unlicensed and off-label use and the implications of extemporaneous products
Understand the importance of effective strategies for the management of pain		
Be able to calculate drugs accurately according to specific dose for weight or age/weight range or on a specific dose/specific area basis	Have a good working knowledge of the use of formularies	
know how to find out information necessary for safe prescribing through the use of paediatric formularies and pharmacy liaison	Be able to find out information necessary for prescribing through use of paediatric formularies and pharmacy liaison	
know how to use the local and national guidelines for the relief of pain in children	Be able to use the local and national guidelines for the relief of pain in children	
be aware of procedures for obtaining consent in children and young people for the administration of drugs	know about procedures for obtaining consent in children and young people for the administration of drugs	know how to explain relevant adverse side effects
be aware of and follow local policies for intrathecal cytotoxic therapy	know and follow local policies for intrathecal cytotoxic therapy	
understand the rationale for prescribing common antimicrobials		
know the indications for antimicrobial prophylaxis		
understand the mechanism of drug resistance		
know the complications and management of paracetamol poisoning		
be able to apply the national and local guidelines on prescribing paediatric intravenous fluid	to be able to advise and supervise safe prescription of intravenous fluids to medical and surgical patients	to be able to advise and supervise safe prescription of intravenous fluids to complex medical and surgical patients
		be able to prescribe in a manner that enhances adherence and provide information and

be able to make reliable and accurate mathematical calculations required in clinical practice e.g. drug and fluid prescriptions

be able to prescribe safely and write legible prescriptions, using appropriate medications in correct doses

Know about common complementary and alternative therapies and where to find out about them so an informed and safe choice about treatment can be made

explanation that enhances concordance

be able to assess mucosal involvement in cutaneous drug reactions

recognise when to consult dermatology, ophthalmology and ENT specialists in the cases of cutaneous drug reactions

understand the different potencies of topical steroids and their side effects

**EMPHASIS ON ALLERGY**  
Know and understand the cross-reactive antigenic determinants and know common cross-reactivities

Know and understand indications and contra-indications for specific allergen immunotherapy

Be aware of different allergen preparations and immunotherapy protocols

**EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES**  
Be able to use appropriate treatments for infectious agents, including antibacterials, antivirals, antiretrovirals, antifungals and anti-parasitic agents

MRCPC. CbD and START

**Good Clinical Care - SAFEGUARDING**

Knowledge, Skills and Performance. Safety and Quality

**Assessment Standard 13**

Standard 13	Level 1 (ST1-3) an understanding of safeguarding and vulnerability in paediatrics	Level 2 (ST4-5) effective skills in the assessment of cases of safeguarding and in contributing to their management	Level 3 (ST6-8) effective skills in advising other agencies in safeguarding cases	Assessments
Competencies	Trainees will:			MIRCPCH, Cbd, DOC, ePortfolio and START
	understand the effects of family composition, socio-economic factors and poverty on child health			
	be aware of the effect of the media on public perception of health care issues			
	be aware of the effect of non health policies on child health			
	be aware of child health exploitation issues including child prostitution, child labour and children in combat			
	be aware of the effects of armed conflict on child health			
	Know the principles of the UN Convention on the Rights of the Child, apply these in their own practice and work for the protection of these rights			
	be aware of the World Health Organisation and UNICEF	understand the work of the World Health Organisation and UNICEF		
	be aware of the implications of sustainable development in low income countries			
	be able to recognise increased needs in children who are fostered, adopted or in residential care	be able to recognise and assess increased need in children who are fostered, adopted or in residential care		
		be able to undertake and document a comprehensive medical assessment of a child looked after by the local authority		

be able to recognise and outline the management of children in need of protection	know where help with management of children in need of protection can be obtained and understand the pathways to ensure follow up
know about the resources that may be available from health and other agencies, including the voluntary sector and the roles of allied health professionals to support children and their families	
have a basic understanding of local interagency structures for joint planning of services	understand the role of named and designated professionals
have an understanding of how different disciplines and agencies collaborate locally with respect to looked after children, children with disabilities and over child protection issues	be aware of the role of medical adviser on adoption of the local adoption panel and know how adoption medical reports are compiled
understand concepts and factors underpinning child protection work	understand the difference between civil and criminal proceedings
	understand the difference between a medical report and a witness statement for the police and be able to produce either
	be able to assess and initiate the management of the child in need of protection
recognise features in presentation, where child protection may be in an issue for example where there are patterns of injury, delay in presentation, inconsistencies in the history	Know how to act upon cases of suspected child abuse
recognise where families are distressed and need help to prevent child abuse	
be familiar with the different categories of abuse and recognise that they may occur together: physical, emotional, sexual, neglect, fabrication or falsification/induction of illness in a child	be alert to the diversity of physical signs and symptoms that might indicate child abuse
understand the emotional impact of abuse on the child, family and on professionals	

know the local guidelines and national guidance and follow the procedures for cases where child abuse is suspected		
keep accurate records of all findings and communications with the child, family members and all other professionals		
to be able to record clearly the results of an examination of a baby, child or adolescent using body charts	be able to conduct an assessment for physical abuse, recording findings and come to a conclusion about the nature of injuries under supervision	
recognise the importance of noting all observations of the child's demeanour and interactions with parents and carers	be able to recognise important features in a child's demeanour and interactions with parents and carers and record observations'	
understand the need to initiate a safe response where abuse is suspected, whilst treating the family with respect and courtesy at all times	know what to do if a child discloses allegations of abuse	
begin to understand the ways in which their own beliefs, experience and attitudes might influence professional involvement in child protection work	understand and be able to manage the ways in which their own beliefs, experience and attitudes might influence professional involvement in child protection work	
begin to understand the principles and practice of common legal processes and legislation relating to safeguarding children and the vulnerable	understand the principles and practice of common legal processes and legislation relating to safeguarding children and the vulnerable	have an up to date working knowledge of the legal processes relating to safeguarding children, including the role of the family court, recent national reports and recommendations (e.g. Lord Laming's Review 2009)
know how to access the Child Protection Register	know how to access the child protection register and understand its role and limitations	
be able to contribute under supervision to written reports for the police or social services	be able to compile and write under supervision the range of reports required in Child Protection Work including police statements, medical reports for social services and court reports	
Understand what is required when asked to give oral or written reports in strategy meetings and case conferences	be able to contribute to case conferences, strategy meetings or court hearings under supervision	

have attended child protection awareness training
Understand what is required when asked to give evidence in court as a witness of fact
understand the need to initiate a safe response where abuse is suspected while treating the family with respect and courtesy at all times
know the local guidelines and follow up procedures for cases where child abuse is suspected

have attended an advanced child protection course for professionals
be able to appear as a professional witness in civil or criminal proceedings

maintain skills in recognition, assessment and reporting of child protection/safeguarding
---

be able to assess safe parenting skills and recognise and respond to indications of unsatisfactory or unsafe parenting
--

MRCPC, CbD, DOC, ePortfolio and START
--

For detailed competences on specific knowledge and skills in acute clinical presentations please follow link to [Safeguarding](#)

**Assessment Standards**  
**14-22**
**Maintaining Good Medical Practice**
**Knowledge, Skills and Performance**

This section details the overall competences for the knowledge base of the paediatrician (assessment standards 14 -15). Each specific specialty has detailed competences for a range of conditions which can be found towards the end of this section.

Addressed in this section is also the specific competences for stages of growth and development e.g. emotional, educational, social and nutrition (assessment standard 16) and health promotion activities (assessment standard 17)

In addition to a detailed knowledge and understanding of diseases in children and young people, paediatricians must ensure they are up-to-date, conform with highest standards of practice, aim to promote evidence-based medicine where possible and audit practice (assessment standards 18-20).

To enhance safe practice then medical ethics and the legislation in relation to paediatrics must be understood and demonstrated (assessment standards 21-22)

For more information on assessment please see the [assessment blueprint](#)

	Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
14	knowledge of the science-base for paediatrics	sound knowledge of the science-base for paediatrics	detailed up-to-date knowledge of the science base for general paediatrics or a paediatric sub-specialty
15	knowledge of common and serious paediatric conditions and their management	extended knowledge of common and serious paediatric conditions and their management	detailed knowledge of common and serious paediatric conditions and their management in General Paediatrics or in a paediatric sub-specialty
16	an understanding of growth, development, health and well-being in paediatrics	effective skills in the assessment and management of children and young people with normal and abnormal growth and development	effective skills in recognising and responding effectively to disordered growth and development of any kind in paediatrics
17	an understanding of health promotion and public health issues in paediatrics	a commitment to health promotion activities for children and their families	involvement in health promotion activities specific to general paediatrics or a paediatric sub-specialty

18	<b>an understanding of an evidence-based approach to paediatric practice</b>	<b>development and refinement of evidence-based clinical paediatrics</b>	<b>independent thinking to enable them to challenge guidelines and procedures in paediatrics where appropriate</b>
19	<b>an understanding of clinical governance activities and audit in paediatric practice</b>	<b>participation in clinical governance activities and audit in paediatric practice</b>	<b>an application of risk assessment strategies through involvement in the development, evaluation and implementation of policy and clinical governance activities in paediatric practice</b>
20	<b>a reflective approach to improvement of professional practice as a paediatrician</b>	<b>a commitment to reflective practice and continuing improvement of practice as a paediatrician</b>	<b>effective skills to maintain and develop knowledge and clinical skills required of a specialist in paediatrics</b>
21	<b>an understanding of equality and diversity in paediatric practice</b>	<b>a commitment to an open-minded approach to equality and diversity in their role as a paediatrician</b>	<b>responsibility for ensuring an open-minded approach to equality and diversity in the paediatric team</b>
22	<b>knowledge of the law regarding paediatric practice</b>	<b>knowledge of the law regarding death, data protection, confidentiality and consent in paediatrics</b>	<b>detailed knowledge of the law regarding death, data protection, confidentiality and consent in paediatrics</b>



**Maintaining Good Medical Practice**

Knowledge, Skills and Performance

**Assessment Standard 14**

Standard 14	<b>Level 1 (ST1-3)</b> <b>knowledge of the science-base for paediatrics</b>	<b>Level 2 (ST4-5)</b> <b>sound knowledge of the science-base for paediatrics</b>	<b>Level 3 (ST6-8)</b> <b>detailed up-to-date knowledge of the science base for general paediatrics or a paediatric sub-specialty</b>	Assessments
Trainees will:	Know and be able to apply the scientific base relevant to clinical practice in paediatrics  Know the aetiology and pathophysiology of common and serious childhood conditions		Be able to apply effectively to their practice the knowledge and understanding acquired during training	
Competencies			<b>EMPHASIS ON ALLERGY:</b> Know and understand basic allergy mechanisms  Know and understand local tissue responses in allergic diseases  Know and understand the immuno-pathogenesis of the immediate and late phase allergic response	MRCPC, CbD and START

See the sub-specialty sections for detailed competencies:

[Cardiology](#)  
[Dermatology](#)  
[Diabetes and Endocrinology](#)  
[Gastroenterology and Hepatology](#)  
[Genetics and Dysmorphology](#)  
[Haematology and Oncology](#)  
[Metabolic Medicine](#)  
[Musculo-Skeletal medicine](#)  
[Neonatology](#)  
[Nephro-urology](#)  
[Neurology and Neurodisability](#)  
[Ophthalmology](#)  
[Palliative Care](#)  
[Respiratory Medicine with Ear, Nose and Throat](#)

**Maintaining Good Medical Practice**

Knowledge, Skills and Performance

**Assessment Standard 15**

Standard 15	<b>Level 1 (ST1-3)</b> <b>knowledge of common and serious paediatric conditions and their management</b>	<b>Level 2 (ST4-5)</b> <b>extended knowledge of common and serious paediatric conditions and their management</b>	<b>Level 3 (ST6-8)</b> <b>detailed knowledge of common and serious paediatric conditions and their management in General Paediatrics or in a paediatric sub-specialty</b>	Assessments
<b>Competencies</b>	Trainees will: Understand the promotion of health and the management of ill-health in babies children and adolescents			MRCPCCH, CbD and START
	Understand the specific health issues, diseases and disorders related to the stages of growth and development		Be able to recognise when both physical and psychological problems are present and when more than one condition may be present	
	Recognise the mental health components of all paediatric illness		Be able to undertake an assessment of the mental state of children and young people, taking into account their age and stage of development and know whether they have the skills to help them and when to seek more expert paediatric, mental health or psychiatric assessment	
	Recognise the effects that school and other social settings may have on childhood illness and vice versa		<b>EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES</b> Know and understand the ontogeny of the immune response in children Know and understand the classification of immuno-deficiencies Know and understand the clinical manifestations of the different types of immuno-deficiency Know and understand the diverse conditions and treatments which result in secondary immuno-deficiencies	

<b>Know and understand the pathophysiology and the principles of treatment of allergic and auto-immune disorders</b>
<b>Know and understand the basis of the immune system including the innate and specific adaptive systems</b>
<b>Understand the developmental aspects of immunity and their relevance to infection susceptibility in infants and young children</b>
<b>Understand the rationale underlying immunisation strategies in children including active and passive immunisation</b>
<b>Understand the development and modes of action for active and passive immunisation</b>
<b>Know about routine immunisation of the immuno-compromised host</b>
<b>Understand the mechanisms of auto-immunity</b>
<b>Understand the different types of infection, which are more common with different kinds of auto-immunity</b>
<b>Know about new and emerging infections as well as, currently “unclassified” diseases with a possible infectious aetiology such as Kawasaki’s Disease or Chronic Fatigue Syndrome</b>
<b>Know the principles of and detail of epidemiology of infectious diseases and be able to apply them</b>
<b>Know and understand about specific infections in the immuno-compromised child</b>
<b>Know and understand the complexities of the relationship between the host and infecting organisms</b>
<b>Know and understand the management of situations where the host immune response to infection has triggered a pathogenic inflammatory response</b>

<b>Know and understand the management of situations where the host inflammatory response has been triggered by a non-infectious condition</b>
<b>Know about the investigation and management of infections in different human situations, such as zoonoses, occupational exposures, nosocomial transmissions, travel acquired infections and bioterrorism</b>
<b>EMPHASIS ON ALLERGY</b> <b>Understand the cellular and molecular pathology of common allergic diseases</b>
<b>Understand the epidemiology, clinical history and natural history of common allergic conditions</b>
<b>Know and understand the ontogeny of the allergic immune responses in early life</b>
<b>Know and understand the way in which allergy allergen exposure and infection interact and manifest as disease</b>
<b>Know and understand the relationship between immuno-deficient states and allergic disease</b>
<b>Know about primary and secondary prevention of atopic disease</b>
<b>Know and understand the immunological mechanisms of immunotherapy</b>

MRCPC, CbD and START

See the sub-specialty sections for detailed competencies:

<a href="#">Cardiology</a>	<a href="#">Dermatology</a>	<a href="#">Diabetes and Endocrinology</a>
<a href="#">Gastroenterology and Hepatology</a>	<a href="#">Genetics and Dysmorphology</a>	<a href="#">Metabolic Medicine</a>
<a href="#">Haematology and Oncology</a>	<a href="#">Neonatology</a>	
<a href="#">Musculo-Skeletal medicine</a>		
<a href="#">Nephro-urology</a>	<a href="#">Neurology and Neurodisability</a>	
<a href="#">Ophthalmology</a>	<a href="#">Palliative Care</a>	
<a href="#">Respiratory Medicine with Ear, Nose and Throat</a>		

**Maintaining Good Medical Practice**

Knowledge, Skills and Performance

**Assessment Standard 16**

Standard 16	<b>Level 1 (ST1-3)</b> <b>an understanding of growth, development, health and well-being in paediatrics</b>	<b>Level 2 (ST4-5)</b> <b>effective skills in the assessment and management of children and young people with normal and abnormal growth and development</b>	<b>Level 3 (ST6-8)</b> <b>effective skills in recognising and responding effectively to disordered growth and development of any kind in paediatrics</b>	Assessments
Competencies	<p>Trainees will:</p> <div>understand the variations in relationship between physical, emotional, intellectual and social factors and their influence on development and health</div> <div>be familiar with the patterns of normal development from birth to adulthood</div> <div>understand the need for further assessment and investigation of delayed development and how to access this</div> <div>know and understand the principles of screening and monitoring</div> <div>Understand the specific health issues, diseases and disorders related to the stages of growth and development</div> <div>be able to assess and monitor development using appropriate tools</div> <div>know the causes of neurodisability, how disability might affect clinical examination and assessment and understand the need for a multi-disciplinary approach to management</div> <div>recognise deviations from normal patterns of development</div>	<p><b>DEVELOPMENT</b></p> <div>understand the patterns of normal development from birth to adulthood</div> <div>know how to institute further assessment, investigation and initial management of delayed development</div> <div>know the causes of neurodisability, how disability might affect clinical examination and assessment and participate in a multi-disciplinary approach to management</div>	<div>be able to assess the effects of recurrent or chronic illness and its treatment on growth, psycho-social, emotional, physical and sexual development and have strategies to minimise adverse effects</div> <div>understand the severity of the presentation of any abnormality in development, taking into account normal development in appropriate domains</div> <div>know about different modes of screening and health promotion strategies</div> <div>be able to lead a multi-disciplinary approach to management of a child with illness and disability</div> <div>know and understand the range of children's or young people's psychological and social development, including normal range and what is outside it</div>	MRCPC, CbD and START

recognise that child neglect or abuse might affect a child's development
be able to identify abnormal patterns of development

be able to participate in a multi-disciplinary approach to management
---

understand the impact of other environmental factors on a child's development, mental health and functioning
be able to identify when patterns of development are abnormal and where there may be a risk of abnormality which may only become apparent with time

<b>Know the range of normal development of immune competence with age</b>
<b>Know the age and developmental specific susceptibility to infectious and allergic conditions</b>
<b>Understand how immune development affects vaccine responses</b>

## EMOTIONAL DEVELOPMENT

know the factors which influence healthy emotional development
--

MRCPC, CbD and START

understand the emotional impact of illness and hospitalisation on children and their families
understand a child's need for opportunities to play and learn at different ages
understand the emotional dimensions of eating disorders
understand and recognise somatisation disorders
be able to assess parenting skills and recognise indications of unsatisfactory or unsafe parenting
recognise and know the principles of managing common behavioural problems
recognise the need for specialised input in cases of serious emotional distress or mental illness
recognise pointers to fabricated and induced illnesses and know how to seek help

understand the emotional impact of illness and hospitalisation on children young people and their families and take action to minimise this impact
know how to access help in cases where children or young people of different ages might be deprived of opportunities to play and learn
understand and recognise somatisation disorders and know how to provide initial management and how to access appropriate support
recognise pointers to fabricated and induced illness and know how to provide initial management and how to access appropriate support

MRCPCCH, CbD and START

know the factors that influence social development
understand the impact of autistic spectrum disorders on social development

## SOCIAL DEVELOPMENT

understand how a family's, child's or young person's attitude to the emotional issues and services may have a significant impact on the presentation and its management

be able to recognise and understand the impact of autistic spectrum disorders and other organic disorders on social development

know the factors which influence intellectual development
understand the vulnerability of a child with learning difficulties
understand the impact of learning difficulties on social and emotional behaviour
know about the process of formal statutory assessment of children with possible special educational needs and other educational strategies to support learning and development

## EDUCATIONAL DEVELOPMENT

demonstrate in all aspects of their practice, an understanding of the vulnerability of a child or young person with learning disabilities

Know, understand and be able to compare and contrast medical and social models of disability

contribute to the processes of formal statutory assessment of children with possible special educational needs and other educational strategies to support learning and development

## GROWTH AND NUTRITION

understand the effects of fetal growth restriction on long-term health
--

know about the principles and methods of alternative methods of feeding e.g. gastrostomy, nasogastric tube and common problems that may arise

know about the principles and methods and indications for nutritional support and common problems that may arise from invasive methods or refeeding

understand the importance of emotional factors in feeding and nutrition, in particular in non-organic failure to thrive
---

know the reasons for faltering growth, including emotional factors and how to investigate appropriately

MRCPC, CbD and START



be able to monitor growth using appropriate tools	be able to monitor growth using appropriate tools, including in disabled children		
understand the basic physiology of breast feeding			
recognise common breast feeding problems and refer appropriately			
Be able to advise a mother about the benefits and risks associated with infant feeding			
be able to advise a mother about appropriate complementary feeding			
understand the role of nutritional support team, specialist nurses, dieticians, psychologists, pharmacists, speech and language therapists in managing feeding and nutrition in paediatrics		<b>EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES</b> <b>Work closely with the dietetic team to manage nutrition in children with immunological, allergic and infectious conditions</b>	
be able to describe a child's nutritional status in terms of balance, body composition and function			
understand the relevance of nutritional requirements for healthy and sick children	understand the differing nutritional requirements for healthy and sick children and advise on nutritional needs	be able to identify nutritional deficiencies and growth failure which may occur in children and young people who undergo unsupervised dietary modification	MRCPCCH, CbD and START

understand the relationship between nutritional status and disease		<b>EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES</b> Be able to manage the nutritional aspects of immunological and infectious conditions in children	MRCPC, CbD and START
know about the principles and methods of dietary supplementation	apply the principles of dietary supplementation	<b>EMPHASIS ON ALLERGY</b> Be able to recommend nutritionally adequate allergen avoidance diets in infants and children	
recognise cultural and religious issues related to nutrition			
understand the effects of obesity on long term health	understand environmental factors contributing to obesity and how these might be altered	understand the environmental factors contributing to obesity and how these might be altered	
understand interventional strategies involved in weight reduction	be able to advise on interventional strategies involved in weight reduction	be able to advise and manage issues relating to obesity in children and secondary health issues related to obesity	
understand the range of factors, biological, psychological and social which influence normal growth and puberty		understand and assess normal and abnormal pubertal development and its relationship to growth	
be able to indentify a family needing nutritional support or advice		be able to recognise feeding problems and work with parents directly to offer simple advice and to treat co-morbid conditions	
understand the effects of malnutrition on clinical outcomes	describe the effects of malnutrition on clinical outcomes and be able to refer appropriately to the nutritional support team		

## ADOLESCENCE

	be able to engage effectively with adolescents	
understand the variations in relationship between physical, emotional, intellectual and social factors and their influence on adolescent development		understand what the specific needs of young people are in terms of their emotional, mental and physical health and how these are different from those of children
understand the different specific and changing health needs of adolescents as inpatients and outpatients		know the epidemiology of the main causes of morbidity and mortality in young people
understand normal and abnormal pubertal development and its relationship to growth	understand and assess, under supervision, normal and abnormal pubertal development	
understand and respond appropriately to episodes of self-harm in adolescents		understand the consequences of self-harm and be able to work as part of a clinical network in the management of the young person who self-harms
know about national policies for reduction of teenage pregnancy		know about national policies concerning the health care of young people, including those which help to reduce teenage pregnancy
know about contraceptive and sexual health issues and where appropriate advice might be sought		be able to discuss sexual health issues including basic contraceptive advice and know how to help the young person access appropriate sexual health or genetic advice

MRCPCCH, CbD and START

know about the issues around transition from paediatric to adult care in adolescents with chronic conditions	understand issues around transition from paediatric to adult care in adolescents with chronic conditions and disabilities	understand issues around transition from paediatric to adult care in adolescents with chronic conditions and disabilities and be able to contribute to transitional care services	MRCPPCH, CbD and START
be aware of issues relating to gender and sexual identity			
recognise risk-taking behaviours, particularly those which pose a threat to chronic disease management		understand the process of adolescence including experimental behaviours, learning by experience, achieving independence from the family and the consequences of these on health and illness in young people	
		understand the particular needs of adolescents with regard to their independence and autonomy, education and work, body image and sexual identity, concordance with medication and risk-taking and understand how these factors may be affected in young people with chronic conditions	
		understand and value the roles of members of the multi-disciplinary team in the delivery of a transitional care programme	
		ensure that young people have access to in-patient and outpatient and other medical services that best meet their needs	
		be able to discuss comfortably with young people important health behaviours such as the use of tobacco, alcohol or recreational drugs and intimacy and sexual activities together with the promotion of appropriate strategies for these in relation to specific conditions such as asthma, diabetes, cystic fibrosis, physical disability	

be able to support young people in self-management of both chronic and acute disease where they want to, and have an understanding as to how to best help when the young person cannot or does not want to manage this	MRCPCH, CbD and START
be able to discuss the implications of chronic illness or disability for career options	
where appropriate and at a negotiated time, be able to raise and agree management of end-of-life issues with young people and their families and record conclusions in medical notes	
<p>EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES</p> <p>Understand the issues for young people growing up with immunological conditions and/or chronic infections that can affect their sexual development, fertility, pubertal development, cognitive development and mental health</p>	
Be sensitive to the sexual and emotional development of young people living with a sexually transmissible disease such as HIV or Hepatitis	
<p>EMPHASIS ON ALLERGY</p> <p>Understand how manifestations of allergic disease change during adolescence</p>	
Understand the problems experienced by adolescents on avoidance diets and the implications for their social life	

**Maintaining Good Medical Practice**

Knowledge, Skills and Performance. Quality and Safety

**Assessment Standard 17**

Standard 17	Level 1 (ST1-3) an understanding of health promotion and public health issues in paediatrics	Level 2 (ST4-5) a commitment to health promotion activities for children and their families	Level 3 (ST6-8) involvement in health promotion activities specific to general paediatrics or a paediatric sub-specialty	Assessments
Competencies	Trainees will:			
	be aware of the key determinants of child health and well-being	understand the key determinants of child health and well being		
	be aware of available outcome measures which are used to monitor the health of a child population	know about available outcome measures which are used to monitor the health of a child population and how they might be used to guide and monitor service delivery		
	be aware of the indices of social deprivation	understand the indices of social deprivation		
	know about the organisation of NHS management structures and service networks			
	know how healthcare services relate to national and local education and social services	show that they understand, in their practice, how healthcare services relate to education and social services		
	Have awareness of current government policies which relate to <b>children</b>	Be familiar with current government policies which relate to <b>children</b>		
	be aware of the principles of health promotion and health education and of current health promotion activities carried out in the community	understand and be able to contribute to health promotion and health education and be aware of current health promotion activities carried out in the community		
	understand the cause of outbreaks of infection, its investigation and control	show that they understand in their practice the causes of outbreaks of infection, its investigation and control	be able to lead within paediatrics on responding to outbreaks of infection and control	
	understand the principles of public health needs assessment			

MRCPCCH, ePortfolio and CbD

know the local, national and international structures for healthcare
understand how healthcare services relate to education and social services
understand the principles of immunisation programmes, national and local structures that deliver immunisation programme, and how they might be monitored and audited
be aware of patient safety issues and the importance of prevention of nosocomial infection

#### SCREENING AND SURVEILLANCE

Know about screening and surveillance programmes	Know about screening and surveillance programmes, including their implementation and evaluation
Know about the conditions currently screened for	
Understand the ethical dilemmas posted by screening	
Be able to explain specific screening to parents	Be able to explain specific screening to parents and organise these tests as necessary
Be able to conduct developmental examinations at different ages	Be able to refer appropriately when required
Understand the importance of evidence to support health promotion activities	

#### HEALTH PROMOTION

	Be able to incorporate health promotion activities in their practice
	Include health promotion messages during the consultation where appropriate
Know the role of health promotion programmes for example to prevent dental decay, smoking, accidents, obesity, sudden infant death	Be able to contribute to health promotion programmes

Be able to advise parents of avoiding risks for children

#### PUBLIC HEALTH AND EPIDEMIOLOGY

Know about population statistics and know how they might be used in service development	understand about population statistics and know how they might be used in service development
---	---

Understand the role of public health doctors in commissioning NHS services	
Understand good study design	
Know the principles of how to conduct population studies	
Be able to evaluate evidence	Be able to evaluate evidence and critique clinical research papers
INJURY PREVENTION	
Understand the epidemiology of injuries in children and young people	Know about effective injury prevention initiatives
Know about the sequelae of injury	
Know about rehabilitation	
Be able to recognise when injury may be non-accidental	Be able to recognise when injury may be non-accidental and to assess that injury
Be able to recognise and treat accidental ingestion and deliberate self-poisoning	
Be able to advise parents on injury prevention	Be able to advise parents on injury prevention and contribute to local injury prevention programmes
IMMUNISATION	
Understand passive and active immunisation	Know about immunisation programmes and schedules in the UK and elsewhere
Understand the principles and the rationale behind the national immunisation policy for children in Britain	understand the principles of immunisation programmes, national and local structures that deliver immunisation programme, and how they might be monitored and audited
	Be able to contribute to immunisation programmes by contributing to training and auditing outcomes
Know the indications, contraindications and complications of routine and specific childhood immunisations	Know where and from whom to seek advice for the most complex histories about immunisations
Be able to advise parents	Be able to advise parents and professionals about commonly referred immunisation problems



**Maintaining Good Medical Practice**

Knowledge, Skills and Performance. Quality and Safety

**Assessment Standard 18**

Standard 18	Level 1 (ST1-3) an understanding of an evidence-based approach to paediatric practice	Level 2 (ST4-5) development and refinement of evidence-based clinical paediatrics	Level 3 (ST6-8) independent thinking to enable them to challenge guidelines and procedures in paediatrics where appropriate	Assessments
	<p>Trainees will:</p> <p>know how Cochrane systematic reviews are developed and the principles of meta analysis</p> <p>ensure that they are up to date in their practice and endeavour to promote evidence-based medicine where possible</p> <p>be able to give an evidence based presentation</p>	<p>have an understanding of common treatments for clinical conditions and the evidence-base for these</p> <p>be able to give an evidence based presentation and be able to analyse critically those given by others</p>	<p>demonstrate an understanding of how to perform and interpret systematic reviews and how they differ from narrative reviews and understand the principles of meta-analysis</p> <p>be able to practice evidence based medicine and understand and analyse critically its limits</p> <p>ensure they are up-to-date in their practice and promote evidence-based medicine where possible</p> <p>be able to understand the limitations of guidelines, how to use guidelines effectively and when it is appropriate to work outside guidelines</p>	<p>MRCPC, MSF, CbD, LEADER and ePortfolio</p>

**Maintaining Good Medical Practice**

Knowledge, Skills and Performance. Quality and Safety

**Assessment Standard 19**

Standard 19	Level 1 (ST1-3) An understanding of clinical governance activities and audit in paediatric practice	Level 2 (ST4-5) participation in clinical governance activities and audit in paediatric practice	Level 3 (ST6-8) an application of risk assessment strategies through involvement in the development, evaluation and implementation of policy and clinical governance activities in paediatric practice	Assessments
Competencies	know how clinical guidelines are produced and how they might be used appropriately within the context of clinical practice	demonstrate an understanding of how guidelines are produced and how these might be used in their own practice	be able to develop clinical guidelines, understand how they are produced nationally and how these should be used to guide their own practice	MRCPC, MSF, CbD, LEADER, START and ePortfolio
	familiar with and follow the local and national clinical guidelines and protocols	begin to evaluate and generate local and national clinical guidelines and protocols in paediatric practice and recognise the individual patient's needs when using them	Be able to generate local and evaluate national clinical guidelines and protocols in paediatric practice and public health and recognise the individual patient's needs when using them	
	understand the principles of evaluation, audit, research, development and standard setting in improving quality	begin to use the principles of evaluation, audit, research, development and standard setting in improving quality	use principles of evaluation, audit, research and development in standard setting in improving quality	
	participate in clinical governance activities, risk management and audit	participate in clinical governance activities and support colleagues in their participation	participate and take responsibility for clinical governance activities and encourage and support colleagues in their participation	
	be able to use ICT effectively in clinical practice and audit			
	know how to access clinical databases and where to find web-based information	show that they are regularly using clinical databases and know where to find web-based information		
		be aware of local processes for dealing with and learning from clinical errors	be aware of local processes for dealing with and learning from clinical errors and to be able to work within them	
			understand and take account of their practice of risk issues to themselves and others, including those related to personal interactions and bio hazards	

be aware of complaints protocols in hospitals

able to conduct an audit of screening, health promotion or service delivery under supervision

be able to advise families about complaints procedure

be able to handle a complaint

have a working knowledge of risk assessment and its application to personal, professional, clinical and organisational practice

understand and take account in their practice of measures to reduce clinical risk

be able to carry out audit in a range of settings in partnership with all stakeholders in order to identify best practice

be able to contribute to the implementation of national and local health policy initiatives

MRCPC, MSF, CbD, LEADER, START and ePortfolio

**Maintaining Good Medical Practice**

Knowledge, Skills and Performance. Quality and Safety

**Assessment Standard 20**

Standard 20	Level 1 (ST1-3) a reflective approach to improvement of professional practice as a paediatrician	Level 2 (ST4-5) a commitment to reflective practice and continuing improvement of practice as a paediatrician	Level 3 (ST6-8) effective skills to maintain and develop knowledge and clinical skills required of a specialist in paediatrics	Assessments
	<p>Trainees will:</p> <p>begun to develop a reflective approach to their practice and a commitment to learning and improving their practice through reflection</p>	<p>developed a reflective approach to their practice with an awareness of their developing expertise and an ability to learn from previous good practice and clinical errors</p> <p>have developed a keen self-awareness so that they know when they are ready to take on new challenges such as breaking bad news to a family and when they continue to need support and guidance</p> <p>developed a reflective approach about their experience of being a trainee in order to ensure positive experiences for trainees now under their supervision</p> <p>show a commitment to continuing professional development which would involve not only seeking appropriate training opportunities but also responding to complaints and enquiries as useful learning tools</p>	<p>have developed a reflective approach to their practice, with an awareness of their level of expertise and limitations and their developmental needs</p> <p>evaluate their own performance critically</p> <p>be willing to accept mentoring as a positive contribution to their own professional development</p> <p>have a willingness to acknowledge and reflect on the way in which they may be influenced by their earlier life experiences, have an impact on perceptions of and interactions with young people, their families and professionals</p> <p>be willing to learn from others to discuss cases openly and seek advice as appropriate and necessary</p> <p>know how to find, review and maintain relevant knowledge in their speciality in order to maintain their fitness to practice</p>	Assessments
Competencies				MSF, LEADER, CbD and ePortfolio

**Maintaining Good Medical Practice**

Knowledge, Skills and Performance. Communication, partnership and teamwork. Maintaining Trust

**Assessment Standard 21**

Standard 21	Level 1 (ST1-3) an understanding of equality and diversity in paediatric practice	Level 2 (ST4-5) a commitment to an open-minded approach to equality and diversity in their role as a paediatrician	Level 3 (ST6-8) responsibility for ensuring an open-minded approach to equality and diversity in the paediatric team	Assessments
Competencies	Trainees will:			
	understand the importance of cultural diversity and the difficulties where religious and cultural beliefs that parents might hold about the treatment of their children are in conflict with good medical practice	Be aware of the different cultural and religious beliefs held by the local population which impact on attitudes to health and sickness in children and begin to develop strategies to manage relationships where these beliefs might cause conflict	understand the importance of cultural diversity and the difficulties where religious and cultural beliefs that parents might hold about the treatment of their children are in conflict with good medical practice and know when legal and ethical guidelines will support your management or view of the situation	MRCPC, LEADER, START and ePortfolio
	begin to understand that young people may have or may develop health care beliefs which are in conflict with those of parents or professionals	understand that young people may have or may develop health care beliefs which are in conflict with those of parents or professionals, when to seek support and where to find legal and ethical guidelines to support their work	have developed strategies to manage relationships where health care beliefs might cause conflict	
	when to seek support and where to find legal and ethical guidelines to support their work		know the legal and ethical guidelines to support their work and where to find more information when required	
	have an open minded approach to equality and diversity	understand the importance of an open minded approach to equality and diversity and follow this in their practice	adopt an open-minded approach to equality and diversity in their practice and recognise these issues with complex clinical situations	
			awareness of religious and cultural diversity and beliefs in counselling children and families regarding end of life care	
	understand the national and contribute to local initiatives aimed at reducing inequalities in child health and well-being			

**EMPHASIS ON IMMUNOLOGY AND  
INFECTIOUS DISEASES**

**Understand the effects of stigma on children  
and families in relation to infections, such as  
HIV TB and sexually transmitted infections**

**Understand the sensitivities in relation to  
primary genetic disorders of the immune  
system**

**MRCPC, LEADER, START  
and ePortfolio**

**Maintaining Good Medical Practice**

Knowledge, Skills and Performance

**Assessment Standard 22**

Standard 22	Level 1 (ST1-3) knowledge of the law regarding paediatric practice	Level 2 (ST4-5) knowledge of the law regarding death, data protection, confidentiality and consent in paediatrics	Level 3 (ST6-8) detailed knowledge of the law regarding death, data protection, confidentiality and consent in paediatrics	Assessments
Competencies	Trainees will:			
	know the law with regard to consent and confidentiality, in children, young people and adolescents and follow the relevant legal principles in practice	know the law with regard to consent to treatment and the right to refuse treatment, and be aware of variability in Scotland, Wales and Northern Ireland, continuing changes in the law and its interpretation.	know and follow key legal and ethical guidelines relating to consent to treatment and the right to refuse treatment, confidentiality, and be aware of variability in Scotland, Wales and Northern Ireland, continuing changes in the law and its interpretation.	
			the legal and ethical guidelines to support their work and where to find more information when required	
			awareness of employment legislation and where to seek further advice on employment matters for various groups of healthcare professionals	
			be able to discuss an assessment of the psychosocial health of a child or young person with the multi-disciplinary team while respecting patient confidentiality	
			know when in the interest of the child it may be necessary to break confidentiality	
	understand the importance of post-mortem investigations		understand the purpose of post-mortem examinations and know about procedures	MRCPPCH, CbD, LEADER, START and ePortfolio

understand and follow the principles and legal aspects of consent and confidentiality

know about the role of the Caldicott guardian and follow the principles of the data protection act and confidentiality

be able to prepare and discuss with parents, carers and other professionals "Do not attempt resuscitation" policies as appropriate, taking due account of the Human Rights Act (1998), ensuring that the best interests of the child are held paramount at all times

be able to seek consent for post-mortem examinations and communicate effectively with the Coroner

**EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES**  
Understand the controversies in relation to partner notification after exposure to infection such as HIV and sexually transmitted infections

MRCPC, CbD, LEADER, START and ePortfolio



**Teaching, Training, Assessing, Appraising**

Communication, partnership and teamwork. Knowledge, skills and performance. Safety and Quality

This section details the competences to be gained in the areas of teaching and research methodology, purpose of assessment and feedback and contributing to appraisal systems.

For more information on assessment please see the [assessment blueprint](#)

	Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
23	an understanding of effective teaching in paediatrics	skills in effective teaching in paediatrics	a commitment to effective teaching and training of colleagues working in different contexts in the care of children and young people
24	a positive approach to receiving mentoring and educational supervision	a commitment to providing positive experiences of mentoring and educational supervision	effective skills in the training, supervision and assessment of a wide range of colleagues working in the care of children and young people
25	an understanding of the need for an ethical and rigorous approach to research in paediatrics	an understanding of research methods and methodology and an involvement in research activities and publications	understanding and application of complex methodological approaches in research in paediatrics

**Teaching, Training, Assessing, Appraising**

Knowledge, Skills and Performance. Quality and Safety

**Assessment Standard 23**

Standard 23	Level 1 (ST1-3) an understanding of effective teaching in paediatrics	Level 2 (ST4-5) skills in effective teaching in paediatrics	Level 3 (ST6-8) a commitment to effective teaching and training of colleagues who are working in different contexts in the care of children and young people	Assessments
Competencies	Trainees will:			MRCPCCH, MSF, LEADER, START and ePortfolio
	begin to develop a sound understanding and a commitment to the principles and practice of effective teaching and learning in clinical contexts	have developed some effective teaching and learning skills in a range of clinical contexts	Demonstrate a range of effective teaching and learning skills in a range of clinical contexts	
		participate in departmental teaching programmes	to be organise and lead a range of learning sessions	
		be able to supervise and teach the relevance of appropriate investigations and the safe conduct of practical procedures	to be able to demonstrate and explain to trainees strategies used to conduct effective consultations with babies, young children , adolescents and their families	
			be able to elicit and act upon feedback on content and presentation of teaching	
			Be able to participate in teaching and research topics within their specialty and in related areas	

**Teaching, Training, Assessing, Appraising**  
Communication, partnership and teamwork. Knowledge, Skills and Performance. Quality and Safety

**Assessment Standard 24**

Standard 24	<b>Level 1 (ST1-3)</b> <b>a positive approach to receiving mentoring and educational supervision</b>	<b>Level 2 (ST4-5)</b> <b>a commitment to providing positive experiences of mentoring and supervision</b>	<b>Level 3 (ST6-8)</b> <b>effective skills in the training, supervision and assessment of a wide range of colleagues working in the care of children and young people</b>	Assessments
Competencies	<p>Trainees will:</p> <p>understand the importance of a positive and constructive approach to mentoring and supervision</p>	<p>understand the importance of a positive and constructive approach to mentoring when giving guidance, support, feedback to trainees under their supervision</p>	<p>take responsibility for the training, supervision and assessment of medical students and trainees and other professionals such as nurses, physiotherapists, dieticians and others outside their specialty such as teachers and social workers</p>	MSF, START and ePortfolio
	<p>show a commitment to their continuing professional development and respond positively to requests for enquiries or critical incident reports and to outcomes of reviews, assessments and appraisals of their performance</p>			
		<p>have developed a reflective approach of their experiences of being a trainee in the past and ensure positive experiences for trainees under their clinical supervision</p> <p>be able to assess accurately the levels of support and supervision required by different members of the team they clinically supervise</p> <p>contribute to the training of medical students and post graduate trainees and other professionals such as nurses, physiotherapists, dieticians and others outside their specialty such as teachers and social workers</p>	<p>be able to identify learning needs in a wide range of professionals and build on this in their teaching</p>	
	<p>show honesty and integrity when contributing to peer reviews of colleagues in teaching and research</p>			

**Teaching, Training, Assessing, Appraising**  
 Knowledge, Skills and Performance
**Assessment Standard 25**

Standard 25	Level 1 (ST1-3) an understanding of the need for an ethical and rigorous approach to research in paediatrics	Level 2 (ST4-5) an understanding of research methods and methodology and an involvement in research activities and publications	Level 3 (ST6-8) understanding and application of complex methodological approaches in research in paediatrics	Assessments
	Trainees will:			
Competencies	an understanding of the need for an ethical and rigorous approach to research in paediatrics	an understanding of research methods and methodology	understanding and application statistical methods and presentation for peer review and publication	MRCPCH, MSF, START and ePortfolio
	understand their responsibilities to conduct research with honesty and integrity, seeking ethical approval where appropriate and safeguarding the interests of patients	Understand the process of the Ethical Committee approval for research studies	conduct research with honesty and integrity, seeking ethical approval where appropriate and safeguarding the interests of patients	
	begin to understand basic concepts in research design and methodology including the difference types of research studies	show that they have understood the basic approach to study design	understand the techniques used in epidemiological studies	
	understand the difference between research and audit		understand the difference between population assessments and unit-based studies and be able to evaluate outcomes for both	
	understand the steps involved in planning a research project	be able to plan a research project effectively under supervision	know about and participate in clinical and research special interest groups relevant to their speciality	
	understand when to use simple statistical tests and their interpretation	demonstrate an understanding of when to use more complex statistical tests and how to interpret significance	know how relative and absolute risks are derived and the meaning of the terms predictive value, sensitivity and specificity in relation to diagnostic tests	
	begin to develop critical appraisal skills and to apply to their reading of the literature, including systematic reviews of their own teaching and the teaching of others	have developed critical appraisal skills and can show how to apply these to their reading of the literature, including systematic reviews, reviews of their own teaching and the teaching of others	demonstrate an understanding of Good Clinical Practice for all aspects of the conduct of clinical trials	

to be able to write a critical account of clinical practice showing that they can deal with complex issues systematically and creatively and that when necessary they can write in line with conventions for academic papers
demonstrate an understanding of how bias and confounding variables may affect the conclusions of clinical research studies

demonstrate an understanding of how to perform and interpret systematic reviews how they differ from narrative reviews and understand the principles of meta-analysis
---

demonstrate an understanding of the role of the ethics committees for clinical studies and the process of ethics applications
be able to evaluate scientific publications critically and to search the medical scientific literature using electronic databases, including Embase that focuses on medicines
know about the criteria for judging papers including experimental design and analysis
understand the source of bias including conflicts of interest
understand the nature and ethics of peer review

***Relationships with Patients***

Communication , partnership and teamwork

This section covers the promotion of effective communication with children, young people and their families/carers.

For more information on assessment please see the [assessment blueprint](#)

	Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
26	an understanding of effective communication and interpersonal skills with children of all ages	a commitment to effective communication and interpersonal skills with children of all ages	effective strategies to engage children in consultations and in the management of their care
27	empathy and sensitivity and skills in engaging the trust of and consent from children and their families	improving skills in building relationships of trust with children and their families	effective skills in conveying and discussing difficult information, including death, bereavement, with young people and their families
28	understanding of listening skills and basic skills in giving information and advice to young people and their families	increasing confidence in giving advice to young people and their families	effective skills in giving information and advice to young people and their families in common and complex cases

**Relationships with Patients**

Communication, partnership and teamwork. Maintaining Trust

**Assessment Standard 26**

Standard 26	Level 1 (ST1-3) an understanding of effective communication and interpersonal skills with children of all ages	Level 2 (ST4-5) a commitment to effective communication and interpersonal skills with children of all ages	Level 3 (ST6-8) effective strategies to engage children in consultations and in the management of their care	Assessments
	<p>have understood the need for and begun to develop effective communication skills specific to their work with babies, children, young people and their families'</p>	<p>continuing to develop a wide range of effective communication skills specific to their work with children, young people and their families</p>	<p>understand the importance of directing communications to the baby, child or young person as well as to parents and carers</p>	
Competencies	<p>know where to find assistance in the case where a child or family member may not speak English</p>	<p>have developed strategies to respond appropriately and where to find assistance in the cases where a child or family member may not speak English or where there is an impairment such as hearing loss that may affect understanding</p>	<p>have developed a wide range of effective age-appropriate communication skills specific to their work with babies, children, young people and their families</p>	
	<p>have understood the need to respond to babies, disabled children or young people who may not be able to express themselves verbally and who might be in pain or distress</p>	<p>demonstrate an ability to respond to babies, disabled children or young people who may not be able to express themselves verbally, including those who maybe in pain or distress</p>	<p>be able to respond appropriately and know cases where to find assistance in cases where a child or family member may not speak English or where there is a sensory impairment that may affect understanding</p>	MRCPC, MSF, MiniCeX, LEADER, CbD, ACAT and PaedCCF
	<p>understand the need to develop strategies for careful and appropriate use of language in difficult and challenging circumstances</p>	<p>begin to develop strategies for careful and appropriate use of language in difficult and challenging circumstances</p>	<p>able to respond to babies, disabled children or young people who may not be able to express themselves verbally, including those who might be in pain or distress</p>	
	<p>have strong communication and interpersonal skills to enable them to work effectively with patients and their families, and colleagues in multi-professional and multi-discipline teams</p>		<p>have effective strategies for careful and appropriate use of language in difficult and challenging circumstances</p>	
	<p>be able to demonstrate courtesy to families, colleagues and members of the multi-disciplinary team at all times</p>	<p>have begun to develop the confidence to be firm and diplomatic in difficult situations, dealing with emotional parents</p>	<p>have developed skills to establish a child's or young person's and family's understanding of a situation, clarifying this as appropriate and to build on this effectively in discussion about the condition and its management</p>	
			<p>have the confidence to be firm and diplomatic in difficult situations, for example when dealing with emotional parents</p>	

experience of how to communicate diagnosis and prognosis effectively to children , where appropriate, young people and their families
have begun to develop appropriate responses and empathy for children, young people and their families experiencing difficulty and distress, for example, in the case of a child who is dying

have developed appropriate responses and empathy for children, young people and their families experiencing difficulty and distress, for example, in the case of an angry or dissatisfied relatives
know the procedures and guidelines to support the management of conflict in relationships with children, young people and their families

have developed a range of approaches to communicating the breadth of diagnostic possibilities and other clinical information to children, young people and their families so that consent is always informed and the plan and progress of treatment is understood
be able to work effectively with young people who may have or may develop health care beliefs that are in conflict with those of parents or professionals
understand the importance of seeking the views of young people to inform decisions about their individual care and to encourage their participation in their care
encourage children and young people to participate in their individual care and in development of services using expert resources appropriately
effective skills in working with children, young people and families to achieve concordance in planning management and treatment, enabling children and young people to maximise control over their illness and its management
be able to recognise, interpret correctly and respond to verbal and non-verbal cues from children, young people and parents
have developed observation skills to support interpretation of developmental levels and possible signs when they are unable to cooperate with formal assessments
be able to counsel parents about serious conditions and abnormalities within their area of expertise



be able to discuss the indications, benefits and adverse events of a procedure to patients, relatives and carers that will allow informed consent for procedure which the doctor is competent themselves to perform

have experience of how to communicate a diagnosis and prognosis effectively to children, where appropriate, young people and their families

have developed a range of language strategies such as the use of metaphor or images which relate to everyday life, to explain clearly to a child or young person and their family , their symptoms, condition or treatments and their feelings behaviour

be able to explain the role of other professionals and agencies to children, young people and their families

to be able to demonstrate to trainees how to communicate a diagnosis and prognosis effectively to children, young people, and their families

MRCPC, MSF, MiniGeX, LEADER, CbD, ACAT and PaedCCF

**Relationships with Patients**

Communication, partnership and teamwork. Maintaining Trust

**Assessment Standard 27**

Standard 27	Level 1 (ST1-3) empathy and sensitivity and skills in engaging the trust of and consent from children and their families	Level 2 (ST4-5) improving skills in building relationships of trust with children and their families	Level 3 (ST6-8) effective skills in conveying and discussing difficult information, including death, bereavement, with young people and their families	Assessments
	<p>Trainees will:</p> <ul style="list-style-type: none"> <li>Understand the need for compassion, empathy and respect for children, young people and their families</li> <li>know the local and national guidelines for obtaining informed consent</li> <li>know the national and local guidance for obtaining consent for post-mortem</li> <li>understand the different factors that have an influence on the patient's journey</li> </ul>	<ul style="list-style-type: none"> <li>show compassion, empathy and respect for children, young people and their families</li> </ul>	<ul style="list-style-type: none"> <li>Practice with compassion, empathy and respect for children, young people and their families and act as a role model to others</li> </ul>	
Competencies	<hr/> <ul style="list-style-type: none"> <li>understand the factors that affect a child's level of anxiety about illness, treatment or examination</li> <li>have begun to develop strategies to manage a child's anxieties and personal anxieties</li> <li>recognise the impact on parents and the rest of the family of acute or chronic illness, hospitalisation or the death of a child</li> </ul>	<ul style="list-style-type: none"> <li>keep an open mind with regard to health-care beliefs, such as complementary and alternative therapies, and to respect the patient, if not the therapy, as long as it is not harmful to the patient</li> </ul>	<ul style="list-style-type: none"> <li>have developed credibility in their relationships with children, young people and their families and with colleagues through their knowledge and skills and experience in clinical practice and in their ability to work independently</li> <li>have developed strategies to manage a child's or young person's anxiety and personal anxieties</li> <li>Be able to recognise, acknowledge and manage different levels of parental anxiety</li> <li>be sensitive to the effects of stigma on children and families in relation to medical conditions</li> </ul>	

MRCPC, MSF, MiniCeX, LEADER, CbD, ACAT and PaedCCF

**Relationships with Patients**

Communication, partnership and teamwork. Maintaining trust

**Assessment Standard 28**

Standard 28	Level 1 (ST1-3) understanding of listening skills and basic skills in giving information and advice to young people and their families	Level 2 (ST4-5) increasing confidence in giving advice to young people and their families	Level 3 (ST6-8) effective skills in giving information and advice to young people and their families in common and complex cases	Assessments
Competencies	Trainees will:			
	have begun to develop active listening skills with children and young people and understood the need to respect their views	have developed active listening skills with children and young people and understood the need to respect their views in accordance with their age and maturity and to respond appropriately, where, for example, a child is felt to be vulnerable	have effective active listening skills in consultations with children and young people and understand the need to respect their views in accordance with their age and maturity and to respond appropriately where for example a child or young person is felt to be vulnerable	
	show patience and sensitivity in their communications with children and their families and a particular ability to explore their individual perspectives of a problem		be able to convey and share effectively difficult or bad news, including end of life issues, with children, young people, parents or carers and help them to understand any choices they have or decisions to be made about ongoing management	
		have developed a keen self awareness so that they know when they are ready to take on new challenges such as breaking news to a family		
			be able to recognise indicators of stress or mental health problems in family members and communicate appropriately with relevant professionals	
			be able to liaise with parent support and self-help groups when necessary	
	know about agencies both statutory and voluntary that can provide support to children and their families in coping with.	know how to access such national resources as the Contact a Family (CAF) directory and the internet as well as local sources to provide information to children and families about support groups		

MRCPC, MSF, MiniCeX, LEADER, CbD and PaedCCF

**EMPHASIS ON ALLERGY**

**Be able to advise on the appropriate use of adrenaline and demonstrate the correct use of adrenaline auto-injectors**

**Understand and be able to advise parents and young people on current controversies on allergy prevention, such as allergen avoidance in pregnancy and infancy and the hygiene hypothesis**

MRCPC, MSF, MiniCeX,  
LEADER, Cbd and PaedCCF

**Working with Colleagues**

Communication, partnership and teamwork. Safety and Quality. Knowledge, Skills and Performance

This section details the appropriate attitudes and behaviours that help deal with complex situations and to work effectively in team work and as a leader within a healthcare team. Much of the medical leadership framework is addressed within this section looking at the practice of leadership.

For more information on assessment please see the [assessment blueprint](#)

	Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
29	Effective Communication and interpersonal skills with colleagues	Skills in ensuring effective relationships with between colleagues	Positive and constructive relationships from a wide range of professional contexts
30	Professional respect for the contribution of colleagues in a range of roles in paediatric practice	Increasing confidence in team-work and the ability to collaborate with a range of external agencies about the needs of children	A commitment to effective multi-agency and multi-disciplinary team working for the care of children
31	Effective time management skills	Effective leadership and management skills in clinical and non-clinical settings	Effective managerial skills in taking on a positive managerial role to support effective service provision
32	Effective handover, referral and discharge procedures in paediatrics	Effective skills in ensuring handover, referral and discharge procedures in paediatrics	Effective leadership skills in the organisation of paediatric team-working and effective handover
33	An understanding of the effects of local, national and international policies on their work and on the health of children	Experience and understanding of working within international, national and local legal structures and organisations involved in the care of children	Effective skills in promoting clinical practice through engagement with local, national and international organisations involved in the care of children

**Working with Colleagues**

Communication , partnership and teamwork

**Assessment Standard 29**

Standard 29	<b>Level 1 (ST1-3)</b> <b>Effective Communication and interpersonal skills with colleagues</b>	<b>Level 2 (ST4-5)</b> <b>Skills in ensuring effective relationships with between colleagues</b>	<b>Level 3 (ST6-8)</b> <b>Positive and constructive relationships from a wide range of professional contexts</b>	Assessments
	Trainees will:			
Competencies	Understand the need to engage effectively with professionals in other disciplines and agencies from the voluntary sector		Have developed effective professional networks to support clinical practice and other activities, including research, education and management	ALL (exc Paed CCF)
	Understand the need for open and non-discriminatory professional working relationships with colleagues	Ensure open and non-discriminatory professional working relationships with colleagues and be aware of the need to prevent bullying and harassment		
	Recognise the needs for timely senior support in serious clinical situations and be effective in requesting this	Be able to liaise effectively with consultants and senior doctors from a range of specialties to optimise management of a child with acute serious illness		

**Working with Colleagues**

Communication , partnership and teamwork

**Assessment Standard 30**

Standard 30	Assessments			Assessments
	Level 1 (ST1-3) Professional respect for the contribution of colleagues in a range of roles in paediatric practice	Level 2 (ST4-5) Increasing confidence in team-work and the ability to collaborate with a range of external agencies about the needs of children	Level 3 (ST6-8) A commitment to effective multi-agency and multi-disciplinary team working for the care of children	
Competencies	Trainees will:			ALL (exc Paed CCF)
	Demonstrate the ability to work effectively in multi-disciplinary teams and with colleagues from a wide range of groups	have experience of working with multi-agency teams for example with social workers and teachers and have developed an awareness of their own role within the team and of the skills and expertise of others	be able to work effectively in multi-agency teams, for example, with social workers and teachers and have developed an awareness of their role within the team and of the skills and expertise of others	
	Have the ability to take on differing and complementary roles within the different communities of practice within which they work, in hospitals, general practice and in the community, in social services and schools	Be able to liaise effectively with colleagues in multi-agency teams such as education and social services	be able to interact effectively with professionals in other disciplines and agencies and from the voluntary sector	
	Understand the importance of effective team work with colleagues in multi-disciplinary teams to ensure consistency and continuity and a holistic approach to the treatment and care of children and young people		be able to work effectively in multi-disciplinary teams and with colleagues from a wide range of professional groups	
		recognise their own working preference and how these may impact on team working	recognise their own working preferences and accept different approaches of colleagues	
			be aware of their role in the team and the impact in the team	
			work with stakeholders so that a client/patient-centred service is created and sustained	
			<b>EMPHASIS ON ALLERGY</b> Be able to co-ordinate local support for children at risk of anaphylaxis at home and in schools and be able to advise about the safety and efficacy of immunotherapy injections	

Be able to run an effective immunotherapy service	ALL (exc Paed CCF)
Be able to run a food challenge service effectively	
<b>EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES</b> Be able to work collaboratively with the whole range of generalists and organ sub-specialists in managing complications or associated problems of immunological, infectious, allergic diseases	
Be able to work with specialists from other disciplines such as genetics and obstetrics to facilitate prenatal diagnosis of primary immunodeficiency disorders	



**Working with Colleagues**

Communication , partnership and teamwork

**Assessment Standard 31**

Standard 31	Level 1 (ST1-3) Effective time management skills	Level 2 (ST4-5) Effective leadership and management skills in clinical and non-clinical settings	Level 3 (ST6-8) Effective managerial skills in taking on a positive managerial role to support effective service provision	Assessments
	<p>Trainees will:</p> <div>Have effective time management skills in their professional roles</div> <div>be able to prioritise tasks in personal and professional contexts for example in medical emergencies</div>	<div>have developed effective organisational skills for themselves and for others in prioritisation and delegation</div> <div>be able to think clearly and to prioritise in clinical decision making and practice</div> <div>be able to delegate duties appropriately to colleagues whom they supervise</div> <div>have developed confidence to make decisions within a team</div> <div>be able to take on a leadership role in multi-disciplinary teams when appropriate, for example at a discharge meeting and know when it may be inappropriate to do so</div> <div>have developed some leadership skills for example in communicating the urgency of action in an emergency while enabling teams to remain calm</div> <div>Communicate effectively in the face of clinical uncertainty</div>	<div>demonstrate effective leadership skills in clinical situations, through their ability to organise, prioritise and delegate and be able to help others develop these skills</div> <div>demonstrate safe and effective leadership through organisation of team work and prioritising appropriately</div> <div>be confident to make decisions within a team and be aware of their on other team members</div> <div>take on a leadership role in multi-disciplinary teams by representing the health needs of a child, young person and their family at a discharge meeting and know when it maybe inappropriate to do so</div> <div>Communicate effectively in the face of clinical uncertainty in acute, serious or complex illness</div>	
Competencies				ALL (exc Paed CCF)

have developed effective problem solving strategies in clinical and management contexts, for example where there is a shortage of beds or medical staff or other resource
be able to recognise the effective qualities of management of meetings, such as having clear action points and achievable and recognisable outcomes

	ALL (exc Paed CCF)
be able to provide specialist support to hospital and community based paediatric services including primary care	
Have awareness of non-clinical managerial skills important to effective running and change in a paediatric dept e.g. direction setting, influencing key people, communication strategies and resource management	
Demonstrate safe and effective leadership through organisation of team work and prioritisation	
<b>EMPHASIS ON ALLERGY</b> Be able to compile management plans for children at risk of anaphylaxis and ensure that mechanisms are in place to allow them to be followed in the community	
<b>EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES</b> Be able to work with research groups to allow translation of new developments into clinical practice in managing children with immunological disorders and infections	

**Working with Colleagues**

Communication, partnership and teamwork. Knowledge, Skills and Performance. Safety and Quality

**Assessment Standard 32**

Standard 32	Level 1 (ST1-3) Effective handover, referral and discharge procedures in paediatrics	Level 2 (ST4-5) Effective skills in ensuring handover, referral and discharge procedures in paediatrics	Level 3 (ST6-8) Effective leadership skills in the organisation of paediatric team-working and effective handover	Assessments
	Competencies			
Trainees will:				
Competencies	Ensure effective hand-over procedures and clear communications with colleagues to ensure the continuing good medical care of patients	Manage effective hand-over procedures and clear communications with colleagues to ensure the continuing good medical care of patients	be able to lead handover effectively and in a timely way in difficult circumstances	DOC, HAT, ACAT, START and ePortfolio
	Ensure the effective discharge procedures to their family, community, social and primary care services		Be able to take on a leadership role in a multi-disciplinary team when appropriate for example representing the health needs of a child, young person and their family at a discharge meeting and know when it may be inappropriate to do so	
		Supervise handover of results that still need to be obtained at the end of shifts		
		have developed confidence to make decisions within a team	be able to plan transitional care and referral of the young person to clinical genetics at an appropriate time	
		know the objectives of a paediatric follow up	know how to refer appropriately to community services before discharge and begin to participate in the follow up of those at risk	

**Working with Colleagues**

Communication, partnership and teamwork. Safety and Quality

**Assessment Standard 33**

Standard 33	Level 1 (ST1-3) An understanding of the effects of local, national and international policies on their work and on the health of children	Level 2 (ST4-5) Experience and understanding of working within international, national and local legal structures and organisations involved in the care of children	Level 3 (ST6-8) Effective skills in promoting clinical practice through engagement with local, national and international organisations involved in the care of children	Assessments
	<p>Trainees will:</p> <p>understand how national and local policy initiatives impact on medical practice and social health and well being</p> <p>begin to develop an understanding of national service frameworks and managed clinical networks within paediatrics, the role of NICE, the role of RCPCH, PMETB and the GMC in professional life and professional regulation</p>	<p>the structure of large NHS organisations including management structures, governance, policy and procedures relevant to the care of children</p> <p>some experience of working within an organisation attending different committees and meeting</p>	<p>how to respond appropriately to health service targets and be able to participate in the development of services</p> <p>know about agencies both statutory and voluntary that can provide general and conditional specific support to children, adolescents and their families in coping with their health problems</p> <p>develop personal skills to be able to participate effectively in local management meetings</p> <p>knowledge and understanding of systems of management and decision making in health care organisations</p> <p>have gained an understanding of national and local regulatory bodies particularly those involved in standards of professional behaviour, clinical practice and education, training and assessment</p> <p>understand the relationship between local health, educational and social service provision</p> <p>be able to work effectively in managed clinical networks</p>	
Competencies	<p>be aware of shared care protocols and the role of outreach clinics</p>	<p>begin to work in managed clinical networks and in outreach clinics</p> <p>participate and contribute to organisational decision making process</p>		MRCPC, MSF, CbD, LEADER, START and ePortfolio

have some familiarity with the roles of allied health professionals and other agencies in the support of children and families

be aware of the impact of the European Union on child health and healthcare systems

know how to access and understand the roles of allied health professionals and other agencies in the support of children and families

**Know about and have participated in specialist organisations for children with allergy, immunodeficiency and infections (e.g. BPAIG, BSACHI, PIA, ESPIDESID)**

MRCPC, MSF, CbD, LEADER,  
START and ePortfolio

**Probity**

Maintaining Trust. Safety and Quality

This section details the high standards of care and professional behaviour within paediatrics and the medical profession as a whole.

For more information on assessment please see the [assessment blueprint](#)

	Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
34	Ethical personal and professional practice	Sound ethical a personal and professional practice	Exemplary professional conduct so as to act as a role model to others
35	Reliability and responsibility in ensuring their accessibility to colleagues and patients and their families	Continued responsibility and accessibility to colleagues, patients and their families	Responsibility for ensuring their own reliability and accessibility and that of others in their team
36	An understanding of the importance of self-awareness and a responsible approach to personal health, stress and well-being	A consistent approach to personal health, stress and well-being	Effective skill s in ensuring their own responsible approach to personal health, stress and well being and that of others

**Probity**

Maintaining Trust. Safety and Quality

**Assessment Standard 34**

Standard 34	<b>Level 1 (ST1-3)</b> <b>Ethical personal and professional practice</b>	<b>Level 2 (ST4-5)</b> <b>Sound ethical a personal and professional practice</b>	<b>Level 3 (ST6-8)</b> <b>Exemplary professional conduct so as to act as a role model to others</b>	Assessments
Competencies	<p>understand the limitations of their competence, in their clinical practice and in their relationships with patients and know where and when to ask for help, support and supervision</p>	<p>understand the limitations of their competence at their stage of training and be willing to seek help in managing sensitive and complex situations</p>	<p>understand the limits of their competence, particularly in stressful situations and be willing to seek help in managing sensitive and complex situations</p>	MRCPC, MSF, MiniCex, LEADER and ePortfolio
	<p>know when and where to ask for help, support and supervision</p>			
	<p>Understand the need for honesty and know the procedures to follow where there is concern about the professional conduct of a colleague who might be putting the health of a patient at risk</p>	<p>act with honesty and know the procedures to follow where there is concern about the professional conduct of a colleague who might be putting the health of a patient at risk</p>		
	<p>demonstrate probity in personal and professional life</p>			
	<p>be aware of the ways in which their personal experiences, values and attitudes might affect their professional practice and know when to refer to another doctor</p>		<p>be open about sharing and reviewing their practice with others</p> <p><b>EMPHASIS ON IMMUNOLOGY AND INFECTIOUS DISEASES</b>  <b>Develop a non-judgemental approach to the management of infectious diseases such as HIV and sexually transmitted diseases</b></p> <p>be able to handle enquiries from the press and other media effectively</p>	

**Probity****Maintaining Trust****Assessment Standard 35**

Standard 35	<b>Level 1 (ST1-3)</b> <b>Reliability and responsibility in ensuring their accessibility to colleagues and patients and their families</b>	<b>Level 2 (ST4-5)</b> <b>Continued responsibility and accessibility to colleagues, patients and their families</b>	<b>Level 3 (ST6-8)</b> <b>Responsibility for ensuring their own reliability and accessibility and that of others in their team</b>	<b>Assessments</b>
<b>Competencies</b>	<b>Trainees will:</b> demonstrate a commitment to the highest standards of care and ethical and professional behaviour within their speciality and with the medical profession as a whole	recognise and support colleagues who may be under pressure	demonstrate responsibility for ensuring reliability and accessibility of both themselves and others in the team	<b>MSF and ePortfolio</b>



**Probity**

Maintaining Trust. Safety and Quality

**Assessment Standard 36**

Standard 36	<p><b>Level 1 (ST1-3)</b></p> <p><b>An understanding of the importance of self-awareness and a responsible approach to personal health, stress and well-being</b></p>	<p><b>Level 2 (ST4-5)</b></p> <p><b>A consistent approach to personal health, stress and well-being</b></p>	<p><b>Level 3 (ST6-8)</b></p> <p><b>Effective skill s in ensuring their own responsible approach to personal health, stress and well being and that of others</b></p>	Assessments
Competencies	<p>Trainees will:</p> <ul style="list-style-type: none"> <li>show a commitment to continuing professional practice and to respond positively to requests for enquiries and incident reports and to outcomes of reviews, assessments and appraisals of their performance</li> <li>take responsibility for their own obligation for health and well-being, safety and welfare issues</li> <li>show an understanding of the importance of ensuring the healthy balance between professional and domestic priorities</li> <li>demonstrate a responsibility for their own health in so far as it might affect the welfare of safety of patients</li> </ul>		<p>effective skills in ensuring others in their team approach their health, stress and well-being responsibly</p>	MSF and ePortfolio

### **SECTION 3 – SUB-SPECIALTY CONDITIONS IN PAEDIATRIC ALLERGY, IMMUNOLOGY AND INFECTIOUS DISEASES**

**Allergy**

Know the specificity, sensitivities and predictive values of skin-testing and in vitro IgE antibody measurements for individual allergens
Be aware that these values vary with the allergen involved, the manufacturer the purity of the product and the relative content of the allergen
Identify patients who present symptoms mimicking allergy and know how to refer them to other specialists
Know and be able to recognise the relationship between food allergy, eczema, failure to thrive, asthma and rhinitis
Know and understand the role of exposure to animals in the generation of tolerance
Know and understand pet allergy and be able to advise sympathetically about reducing exposure to animals

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓

**Anaphylaxis**

Ensure that guidelines for the management of anaphylaxis are implemented
Be able to advise about and interpret investigations performed immediately following acute allergic reactions
Be able to identify precipitating causes using ingestion history, gastric aspirate and serial tryptase levels as appropriate

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓

**Food Allergy**

Know the common and uncommon foods that trigger IgE mediated and non IgE mediated hypersensitivity reactions
Know the mechanisms of IgE and non-IgE food hypersensitivity reactions including eosinophilic enteropathy and food intolerances due to pharmacological effects of food and enzyme deficiencies and be able to explain this to parents
Be able to diagnose and manage appropriately food-induced enteropathy, including interpretation of oesophageal pH monitoring and gut histology
Be able to recognise multiple presentations of food allergy, be able to interpret a dietary diary and be able to advise about its management, including the risks and benefits of avoidance diets, use of alternative and hypoallergenic milk formulas and a hypoallergenic weaning diet
Know the indications for food challenges, challenge protocol procedures and safety precautions
Be able to use measurement of specific IgE and skin test results to optimise the timing of food challenges
Be able to advise about the safe re-introduction of food following a negative food challenge
Know the relationship and cross-reactivities between food, pollen and food, and latex and be able to advise children and their families appropriately
Be able to recognise the distinction between food allergy and oral allergy syndrome and advise patients appropriately
Know how to assess future risk of allergic reactions and which children require the prescription of injectable adrenaline

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Eczema**

Understand the role of allergen triggers and avoidance in the pathogenesis and management of eczema and be able to advise children and their families appropriately
Know the role of diet in the pathogenesis of eczema and be able to advise appropriately about dietary modification
Know the role of exposure to airborne allergens in the pathogenesis of eczema and be able to advise appropriately about reducing exposure
Be able to examine and assess the severity of eczema in an affected child
Know the sensitivity and specificity of measuring total and specific IgE and skin testing in children with eczema and be able to investigate them appropriately
Know how to perform patch testing for contact dermatitis and understand the value and limitations and the potential value and limitations of atopy patch testing
Be able to manage patients with severe eczema including the use of emollients, anti-inflammatory preparations and wet wraps

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Urticaria and angiodema**

Be able to manage and investigate patients presenting with an acute exacerbation of angiodema
Be able to identify precipitating causes and advise about future avoidance
Know the definition causes and exacerbating factors of acute and chronic urticaria and angiodema
Be able to investigate and manage children with acute and chronic urticaria
Be able to diagnose accurately and manage children with hereditary angiodema including advise about prophylaxis and peri-operative management
Be competent in performing challenge procedures for children with physical urticaria
Be able to recognise and investigate children with an underlying vasculitis

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Asthma and recurrent wheeze**

Be able to identify allergen exposure as a cause of acute exacerbations of asthma
Know the role of allergy testing and allergen avoidance in managing children with asthma and be able to advise families about allergen reduction measures
Know the concept of the unified airway and the importance of the treatment of rhinitis in patients with asthma
Be able to advise about the effective methods of reducing exposure to house dust mite
Be able to perform bronchial allergen challenges and to know the indications for using them
Know the value and limitations of environmental sampling for aeroallergens
Be able to perform and interpret spirometry, pulmonary function testing and exercise challenge testing
Be able to recognise, investigate and manage patients with acute and chronic severe asthma including the use of immuno-modulators and anti – IgE
Understand the changes in asthma which occur during adolescence including remission and deteriorating asthma control

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Rhinoconjunctivitis**

Know the definitions of seasonal and perennial disease and exacerbating factors
Know about the aerobiology of pollen
Be able to diagnose accurately allergic rhinitis and conjunctivitis, know the differential diagnosis, management guidelines and principles of therapy
Be able to advise young people and their families about the effective application of eye drops and nasal sprays and identify patients who would benefit from pollen immunotherapy
Be able to perform nasal and conjunctival allergen provocation tests
Know the pathogenesis and management of obstructive sleep apnoea including indications and interpretation of sleep studies
Be able to identify and manage common co-morbidities such as sinusitis and sensory abnormalities of smell and taste
Be able to diagnose the common cross-reacting allergens relevant to the oral allergy syndrome

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Venom Allergy**

Know the clinical features and grading of local and systemic reactions to insect stings
Be able to perform and interpret skin prick tests, using serial dilutions and measurement of specific IgE
Be able to advise about the avoidance and emergency management of stings and appropriate rescue medications
Know the indications and contra-indications to venom immunotherapy

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓

**Drug Allergy**

Know the management and investigation of suspected drug allergy including allergic reactions to local and general anaesthetics and be able to advise about appropriate alternative drugs
Be able to perform and interpret skin prick test, intradermal test and measurement of specific IgE to antibiotics and local and general anaesthetic agents
Know the indications for limitations of and protocols for drug challenges and desensitisation
Be able to supervise drug challenges and desensitisation procedures

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓

**Vaccine reactions**

Know the causes and mechanisms of vaccine reactions and be able to advise about further immunisations in children following vaccine reactions
---

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓

**Latex allergy**

Know about routes of exposure risk factors, natural history, aetiology and clinical sequelae of latex allergy
Be able to diagnose latex allergy, including skin prick testing, measurement of specific IgE and provocation tests
Be able to advise about the practical management of patients with latex allergy, including avoidance and use of latex free alternatives; at home, in schools and nurseries, in dental clinics and hospitals
Know about hospital latex policies and be able to advise about their implementation
Be able to identify cross-reacting latex allergens in common foods and advise patients accordingly

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓

**Idiopathic anaphylaxis**

Be able to investigate idiopathic anaphylaxis appropriately and exclude common causes
Know the differential diagnosis including exposure to unusual allergens, exercise induced anaphylaxis and systemic mastocytosis
Be able to advise a family with a child at risk of anaphylaxis about prevention, rescue medications and prognosis

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓

**Immunology****The Immune System**

Know the detailed functioning of the immune system including the complement system, phagocytic system, humoral and cellular immunity and the molecular and genetic basis of such functioning
Understand the levels of functioning of the immune system at different ages and the relevance to vaccination strategies
Understand the effect of malnutrition and disease on normal immune development
Know the immunological basis of allergic disorders
Know the immunological basis of auto-immune and inflammatory disorders
Understand the basis of immunodysregulatory disorders including haemophagocytic lymphohistocytosis
Understand the basis of hereditary angio-oedema and its complications
Understand immune function testing and be able to interpret the results including antibody assays, complement, phagocytic cell and T cell tests
Understand the molecular genetic tests available for the diagnosis basis of primary immunodeficiency disorders
Understand the basis of secondary immuno-deficiencies including those induced by infections, other disease and drug treatments
Understand the epidemiology, manifestations and basis of treatment for HIV infection in children

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Infections in the immuno-compromised child**

Know the nomenclature, epidemiology, incubation periods clinical presentations pathogenesis, diagnostic tests, host response, infection control issues and treatment for the different families of micro-organisms
Recognise the atypical manifestations of common infection and the range of atypical organisms causing infection in the immunocompromised child
Be able to recognise the patterns of pyrophoproliferative disorders in immunocompromised children
Know the normal flora found in different sites of the body in infants and children as well as pathogenic flora
Be able to keep up to date with literature and be aware of the constant evolution and discovery of new pathogenic micro-organisms
Have a good understanding of the functioning of a clinical diagnostic microbiology service for different types of infections
Have a good understanding of methodology and limitations of different diagnostic tests for infections including culture, serology, antigen detection and molecular techniques
Understand the principles of infection control within and without the hospital environment
Have experience of working with the infection control team to limit the spread of infection in hospitals
Be actively involved in the development of hospital antibiotic policies in relation to the management of children in hospital
Know how to handle bio-hazardous specimens and be able to advise

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Therapies**

Understand and be able to use appropriate antimicrobial prophylaxis in the immunocompromised child
Understand and be able to use the full range of antimicrobial therapies for infections in the immunocompromised child
Have knowledge and experience of the principles and practice of immunoglobulin treatment including the use of intravenous and subcutaneous treatment routes
Be able to administer immunoglobulin by both intravenous and subcutaneous
Understand the process involved in setting up home therapy with immunoglobulin
Be able to use immunomodulatory treatments including monoclonal antibodies and growth factors
Understand and be able to manage autoimmune and inflammatory disorders
Be able to use C1 inhibitor concentrate for hereditary angioedema
Know how to manage acute anaphylaxis
Understand the principles of donor selection, conditioning treatment and complications including infection and graft versus host disease in bone marrow transplantation

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Infectious Diseases****Micro-organisms**

Know the nomenclature, epidemiology, incubation periods, clinical presentations, pathogenesis, diagnostic tests, host response, infection control issues and treatment for the different families of micro-organisms
Have the knowledge of the likely pattern of infecting organisms in different clinical situations such as human or animal bite
Know the normal flora found in different sites of the body in infants and children as well as pathogenic flora
Understand the significance of zoonoses in different situations and be able to treat appropriately for the most likely infections
Be able to keep up to date with literature and be aware of the constant evolution and discovery of new pathogenic micro-organisms
Have a good understanding of the functioning of a clinical diagnostic microbiology service for different types of infections
Have a good understanding of methodology and limitations of different diagnostic tests for infections including culture, serology, antigen detection and molecular techniques

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Bacteria**

Have an in-depth knowledge of the nature, consequences and treatment of infections with gram positive organisms including: staphylococci, streptococci, diphtheria, anthrax listeriosis, tuberculosis and other mycobacteria
Have an in-depth knowledge of the nature, consequences and treatment of infections with gram negative organisms including: the many enterobacteria such as salmonella; and the many cocccbacilli such as Haemophilus Influenzae
Have an in-depth knowledge of the nature, consequences and treatment of infections with treponematacae such as borrelia and syphilis
Have an in-depth knowledge of the nature, consequences and treatment of infections with anaerobic bacteria such as clostridium and tetanus

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓

**Viruses**

Have an in-depth knowledge of the nature, consequences and treatment of infections with DNA viruses such as parvoviruses, papilloma viruses, herpesviruses and pox viruses
Have an in-depth knowledge of the nature, consequences and treatment of infections with RNA viruses such as picornaviridae, reoviridae, togaviridae, flaviviridae, orthomyxoviridae, paramyxoviridae and retroviridae

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓

**Atypical Infections**

Have an in-depth knowledge of the nature, consequences and treatment of infections with Chlamydia, mycoplasma and rickettsial diseases
--

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓

**Fungal Infections**

Have an in-depth knowledge of the nature, consequences and treatment of infections with fungi including Aspergillus, Candida and Cryptococcus
---

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓



**Parasitic Diseases**

Have an in-depth knowledge of the nature, consequences and treatment of infections with different human parasites including the protozoa such as malaria, toxoplasmosis and cryptosporidiosis
---

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓

**Antimicrobial Therapeutics**

Have a detailed understanding of the mode of action and pharmacokinetics of antimicrobial drugs in children and infants
Have a good knowledge of the local flora and its antibiotic resistance patterns
Know about the resistance patterns of imported organisms
Have a good understanding of the processes of development of resistance to antimicrobials as well as the assessment and development of drug resistance and strategies to manage drug resistant organisms
Have a good understanding of the use of immunomodulating agents including cytokines and growth factors
Know when to use antimicrobial prophylaxis and which treatments to use

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓

**Clinical Infectious Diseases**

Know and understand the significance of microbial virulence factors in the evolution of disease
Know and understand the nature of potential pathogenic role of indigenous flora in evolution of human disease
Know and understand the variety of host metabolic responses to infection with reference to how these may improve or aggravate clinical disease
Know and understand the interactions of the host inflammatory and coagulation cascades
Know and understand the pathogenesis of the febrile response to infection
Understand the specific effects of nutrition on infectious disease severity, such as seen with measles infection

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓

**Infections of specific organ systems**

Be able to liaise effectively with organ specialist paediatricians, radiologists, microbiologists, intensivists and other therapists in the multi-disciplinary team to effect the best management of specific organ infections
Be able to order and interpret appropriate ancillary diagnostic tests such as MRI scan or EEGs
Be active in the local development of protocols for the best management of infections of specific organ systems to assist junior colleagues as well as organ specialist paediatricians

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓

**Upper respiratory tract infections**

Have clinical experience of the management of the diverse infection of the mouth and upper respiratory tract
Be able to differentiate trivial infections from severe infectious presentations such as epiglottitis, croup and per-pharyngeal abscesses
Be able to recognise and treat complications of simple upper respiratory tract infections such as mastoiditis, parotitis or sinusitis
Be able to treat otitis media and its potential complications
Be able to investigate and treat cervical lymphadenitis, both the chronic and acute presentations

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓

**Lower respiratory tract infections**

Have clinical experience of the management of the diverse infections of the lower respiratory tract
Be able to investigate the infectious source of respiratory diseases
Be able to manage bacterial and non-bacterial pneumonias
Be able to manage complications of pneumonia such as effusions, empyemas and lung abscesses
Be able to manage infants with bronchiolitis and identify those eligible for anti-viral treatment
Be able to investigate and manage the causes of interstitial pneumonitis
Be able to investigate and manage infectious complications of chronic lung diseases such as cystic fibrosis

**Central nervous system infections**

Have clinical experience of managing the diverse infections of the CNS
Be able to investigate and manage all forms of infectious meningitis including tuberculosis
Be able to manage the clinical complications of meningitis such as effusions and empyema
Be able to diagnose and manage all forms of meningo-encephalitis and their complications
Be able to investigate and manage infections of the spinal cord and its coverings
Be able to manage "post-infectious" complications in the CNS such as Guillain-Barre syndrome, acute demyelinating encephalomyelitis and cerebellitis
Be able to diagnose and manage CNS complications of URTI or facial infections such as abscesses, orbital infections, osteomyelitis of skull bones and thrombophlebitis
Be able to liaise with the ophthalmologist for the appropriate management of ocular infections whether acute or chronic such as toxoplasmosis

**Cardiovascular system infections**

Be able to investigate and manage infections of the different layers of the heart including infective endocarditis, myocarditis and pericarditis
Be able to diagnose and treat acute rheumatic heart disease as well as manage the long term follow up of such patients along with the cardiologist
Be able to diagnose and treat other vascular infections that may be secondary to intravenous devices

**Genitourinary tract infections**

Be able to investigate and manage infections of the urinary tract with particular reference to the age of the child and underlying risk factors for infection
Be able to diagnose and manage complications of UTI infections such as renal abscess, prostatitis
Be able to manage UTIs in children with congenital renal tract anomalies and chronic infections with resistant organisms
Be able to diagnose and manage jointly with the gynaecologist, gynaecological infections in girls and be able to refer such children and young people to the child protection team where appropriate
Be able to diagnose and manage jointly with genitourinary specialist sexually transmitted infections in children and adolescents
Be able to refer such children and young people to the child protection team where appropriate

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓

**Gastro-intestinal tract infections**

Be able to diagnose and manage all forms of infectious diarrhoea as well as their potential complications and be able to initiate the appropriate contact and control of infection measures for diarrhoeal illnesses
Be able to diagnose and manage the viral hepatitis and liaise with the hepatology team where appropriate
Be able to diagnose and manage appendicitis, intra-abdominal abscesses and intra-abdominal sepsis and liaise appropriately with the abdominal surgeons
Be able to diagnose and manage abdominal tuberculosis and liaise appropriately with the gastroenterologist

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓

**Musculoskeletal and skin infections**

Be able to investigate and manage infections of the bones and joints, recognising the problems of antibiotic penetration into bone
Be able to liaise with the orthopaedic team for the best management of these infections
Be able to diagnose and manage bacterial myositis as well as necrotising fasciitis and liaise with the surgeons to prevent its complications
Be able to diagnose and manage bacterial, fungal, parasitic and viral skin infections, recognising aggravating aetiological factors in the host

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓

**Systemic infections/inflammations**

Be able to recognise, formally diagnose and manage all the viral exanthems of childhood
Be able to diagnose and manage the complications of the viral exanthems, such as post Varicella encephalitis
Be able to advise on the incubation periods, exclusion from school/nursery periods and preventive interventions for other family members of the viral exanthems
Be able to investigate and manage a child with sepsis and shock
Be able to give antibiotic advice for the individual and for prophylaxis, if appropriate, of other family members
Be able to diagnose and manage toxic shock syndrome with antibiotics and immune modulation
Be able to liaise with intensivists and surgeons for optimal management of such cases
Be able to take an in-depth history, carry out a detailed examination and organise the appropriate diverse range of investigations for the diagnosis of a fever of unknown origin
Be able to liaise with the microbiologist, radiologist, haematologist and other organ specialists to identify the cause of the fever
Be able to recognise when the fever is not due to infection but to another inflammatory or malignant condition

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Infections of the foetus and newborn**

Be able to support the obstetrician and neonatologists in the diagnosis and treatment of congenital infections such as cytomegalovirus, syphilis or toxoplasmosis
Have an in-depth knowledge of the different pattern of infections in neonates compared to older infants and children
Be able to support the neonatologists in the diagnosis and treatment of severe viral, fungal and bacterial infections of the neonate, such as herpes, encephalitis or bacterial meningitis

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓

**Infections of the immunocompromised child**

Be able to recognise infectious or other presentations of specific congenital immune deficiencies and treat and liaise appropriately with the immunologist
Be able to recognise infectious or other presentations of acquired immune deficiencies whether due to HIV, nosocomial interventions or other problems
Have an in-depth knowledge of the presentation and management of opportunistic in the immunocompromised host
Be able to treat central line infections in immunocompromised hosts

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓

**Infections in the returning travellers**

Be able to manage fever in a child recently arrived from abroad with knowledge of the possible infections in the country of origin
Be able to diagnose and treat the different presentations of the commoner tropical infections such as malaria, dengue, typhoid, tuberculosis or HIV
Know where to seek advice on management of rarer tropical diseases
Understand the significance of malnutrition, parasitic infections and psychological stress in children from war zones or in families seeking asylum

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓

**Unclassified diseases and inflammatory diseases**

Be able to diagnose, investigate and treat Kawasaki's disease
Be able to manage complex cases of Kawasaki's disease which do not respond to first line treatment
Be able to liaise with the cardiologist for the best management of these cases
Be able to recognise and manage rare cases of vasculitis or other inflammatory disorders and liaise with the rheumatologist for their best management
Be able to diagnose, investigate and treat within a multi-disciplinary setting children with chronic fatigue syndrome

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓

**Infection Control**

Understand the principles of infection control within and without the hospital environment
Have experience of working with the infection control team to limit the spread of infection in hospitals
Be actively involved in the development of hospital antibiotic policies in relation to the management of children in hospital
Know how to handle bio-hazardous specimens and be able to advise others of the problems associated with such specimens
Be able to advise about incubations periods, periods of infectivity and periods of school/nursery exclusion for childhood exanthems
Know about infection control in the community and how to liaise with the public health team including the management of outbreaks, statutory notification of diseases, disease surveillance and contact tracing
Know about contact tracing for infectious diseases, in particular for condition such as tuberculosis
Know how to deal with highly contagious infections such as the haemorrhagic fevers
Know where to seek expert advice for the management of these rare infections

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Prevention of infection**

Know when to report infections which have implications for public health, whether vaccine preventable tropical or highly infectious
Know in depth the UK national vaccination schedule, its continued development and its differences from other nations
Know when passive vaccination may be appropriately given, such as for prophylaxis of hepatitis or diphtheria
Understand the global importance of vaccine programmes
Be able to give health information for travel overseas as well as about vaccination for overseas travel
Know about manipulation of the environment to reduce infection risk, such as the use of impregnated bed nets for prevention of malaria
Know about when to use post-exposure antimicrobial prophylaxis

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓

**Paediatric HIV Medicine**

Competences specific to trainees who wish to specialise in HIV

**HIV Medicine**

Have extensive experience in a Paediatric HIV specialist centre including ward-based experience of inpatient care, outpatient management of children and adolescents with HIV
Understand the classification of HIV disease in children, the modes of presentation of HIV and the management of opportunistic infections
Have an in-depth knowledge of antiretroviral treatment of HIV in children
Have in-depth knowledge of the development of resistance to antiretroviral drugs, the short and long term side effects of these drugs and particular problems of administering these drugs to children
Have experience of multi-disciplinary care meetings for families with HIV
Have experience of recruiting children to HIV treatment trials, usually under the auspices of PENTA (Paediatric European Network for the Treatment of AIDS)
Have experience of working with adolescents with HIV and be able to recognise the complex issue surrounding their care
To report to the UK national study of HIV in Pregnancy and Childhood (NSHPC) and the Collaborative HIV Paediatric Study (CHIPS)
Have experience of attendance and giving presentations at meetings of British HIV Association (BHIVA) and Children's HIV Association (CHIVA)
Have in-depth knowledge of the appropriate interventions to reduce mother to child transmission of HIV
Have experience of the multi-disciplinary perinatal management of mothers and infants to reduce transmission of HIV

Level 1 (ST1-3)	Level 2 (ST4-5)	Level 3 (ST6-8)
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓
		✓

## **SECTION 4 – MAINTENANCE OF SPECIALTY-SPECIFIC COMPETENCES**

**Cardiology****GENERAL COMPETENCES**

Have the knowledge and skills to be able to assess and initiate management of babies and children presenting with cardiological disorders
Know the genetic and environmental factors in the aetiology of congenital heart disease
Be able to formulate a differential diagnosis
Be able to respond appropriately to cardiac arrest
Be able to select and interpret appropriate cardiological investigations and know the indications for echocardiography
Understand the life threatening nature of some of these conditions and when to call for help
Know the possible cardiac complications of other system disorders
Know when referral for specialist paediatric cardiology assessment for further management is appropriate
Be able to provide advanced life support and lead the team at a cardiac arrest
Be able to identify common ECG abnormalities

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓

**ACUTE PRESENTATIONS****Cyanosis**

Know the normal fetal circulation and transitional changes after birth
Know the anatomy of the common causes of cyanotic heart disease
Be able to differentiate between cardiac and non-cardiac causes of cyanosis
Recognise when treatment is urgent
Be able to initiate emergency management
Be able to describe clinical signs and investigations accurately and effectively with a cardiologist

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓
	✓

**Heart Failure, including cardiac conditions which present with shock**

Understand the causes of heart failure
Be able to initiate appropriate investigations and treatment

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	

**Arrhythmia**

Know the causes of arrhythmias
Be able to recognise common dysrhythmias on ECG
Be able to initiate emergency treatment in arrhythmias such as tachycardia
Be able to initiate emergency treatment in arrhythmias such as paroxysmal supraventricular tachycardia

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓



**Infective Endocarditis**

Know when prophylaxis against endocarditis is indicated
Know the causes of endocarditis
Be able to advise parents about prophylaxis against endocarditis
Be able to initiate appropriate investigations and treatment
Be able to recognise the possibility of endocarditis

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓

**OUTPATIENT PRESENTATIONS****Heart murmur**

Know the causes of common heart murmurs and the haemodynamic reasons for them
Know about the effects of heart disease at school
Be able to interpret correctly heart sounds and added sounds
Be able to identify an innocent cardiac murmur
Be able to advise families appropriately about the effects of heart disease at school

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
✓	
✓	
	✓

**Hypertension**

Know and understand the causes of hypertension
Be able to measure and interpret correctly blood pressure measurements at different ages
Recognise the importance of examining femoral pulses in all children

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	

**Palpitations**

Know the cardiac and non cardiac causes of palpitations
Be able to initiate appropriate investigations

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	

**Syncope**

Know the cardiac causes of syncope
Be able to initiate appropriate investigations including appropriate ECG analysis
Be able to differentiate syncope from seizures

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓

**Dermatology****GENERAL COMPETENCES**

Be able to describe accurately any rash
Recognise and know when to refer common birth marks and haemangiomas
Have the knowledge and skills to be able to recognise, investigate and manage common skin complaints
Know about the cutaneous and mucosal manifestations of systemic disease
Recognise the serious nature of some skin disorders or their associated conditions and know when to ask for help
Understand the principles of therapy for skin complaints
Be aware of the different potencies of topical steroids and of their side effects
Understand the impact of severe dermatological problems on children
Be aware of the common causes of hair loss and hypertrichosis
Know when consultation with other specialties is appropriate
Know the indications for and the procedure involved in skin biopsy
Know when to consult dermatology, ophthalmology and ENT specialists
Understand the different potencies of topical steroids and of their side effects
Know the common causes of hair loss and hypertrichosis

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓

**ACUTE PRESENTATIONS****Skin Failure e. g toxic epidermal necrolysis, staphylococcal scalded skin syndrome and epidermolysis bullosa**

Know the features and management of staphylococcal scalded skin syndrome
Be aware of the rarer causes of skin failure
Be aware of careful handling in blistered neonates in case of inherited skin fragility
Be able to assess and to start initial treatment promptly
Recognise when to consult dermatology and ophthalmology specialists

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓

**Skin Infections**

Know the causal bacteria, features, complications and management of cellulitis including periorbital cellulitis
Know the features and management of infected eczema and eczema herpeticum
Recognise and be able to treat scabies, pediculoses, and common viral and fungal skin infections
Recognise the features of and manage infected eczema and eczema herpeticum
Recognise when to consult ophthalmology and ENT specialists

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓

**Cutaneous drug reactions**

Be aware of the different patterns of drug reaction and of the common precipitants
Be able to assess mucosal involvement
Recognise serious drug reactions e.g. Stevens-Johnson syndrome

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	

### Erythematous rash and fever

Know the causes of fever and an erythematous rash
Be aware of rare but serious causes e.g. toxic shock syndrome
Be able to recognise Kawasaki syndrome and to institute appropriate treatment
Be aware of complications and know when to refer, for example, to a cardiologist
Recognise and initiate management of rare but serious causes, e.g. toxic shock syndrome

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓

### OUTPATIENT PRESENTATIONS

#### Eczema and seborrheic dermatitis

Know the principles of treating eczema
Be able to manage mild eczema and seborrheic dermatitis
Be able to advise parents about these conditions including
Be able to advise parents about common problems such as cradle cap and nappy rash

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	

**Diabetes and Endocrinology****GENERAL COMPETENCES**

Have the knowledge and skills to be able to assess and initiate management of patients presenting with diabetes, growth or endocrine presentations in inpatient or outpatient settings
Be able to measure children accurately and to assess their growth using appropriate growth charts and taking into account parental stature and pubertal status
Be able to assess accurately pubertal stages of development
Know about changes to insulin and steroid therapy in children with diabetes and hypoadrenalism during acute illness or perioperatively
Understand the endocrine complications of other diseases

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	

**ACUTE PRESENTATIONS****A child presents 'well' with diabetes mellitus**

Know the pathophysiology of diabetes mellitus
Recognise the early features of this presentation
Know the principles of diabetes management including commonly used insulin regimens
Know about the long term complications of diabetes and about ways to reduce the risks of these occurring
Be able to explain this condition to parents
Be able to liaise with the children's diabetes team
Be able to give basic advice about diet and exercise

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
✓	

**Diabetic ketoacidosis**

Understand the pathophysiology of diabetic ketoacidosis
Be aware of potential complications including cerebral oedema
Know how to treat and monitor progress
Be able to recognise the clinical features of this condition
Be able to lead the team when initiating resuscitation and early treatment
Be able to manage ongoing treatment safely with guidance
Recognise potential complications including cerebral oedema

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
	✓

**Hypoglycaemia**

Know the causes, complications and treatment in the neonatal period and beyond
Know that blood glucose is an urgent investigation in patients with impaired conscious level
Be aware of the clinical features which would suggest hypopituitarism or adrenal insufficiency
Know when to consider rare causes of hypoglycaemia and what investigations to perform during the hypoglycaemic episode
Be able to take relevant investigations required for the confirmation of cause
Be able to assess whether any change to insulin treatment is needed to prevent recurrence in diabetic patients
Recognise the need to inform the diabetes team of serious hypoglycaemia in their patients
Be able to treat hypoglycaemia safely and effectively with intravenous glucose or glucagon where appropriate

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
✓	
✓	
✓	
	✓

**Neonatal thyrotoxicosis**

Know the cause of this condition and its natural history
Recognise this presentation and the need for urgent treatment

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	

**Ambiguous genitalia**

Be aware of the causes of this presentation
Understand the features of congenital adrenal hyperplasia and its early management
Recognise the extreme sensitivity of this presentation and of the need to seek urgent help from senior colleagues with regards to management and counselling parents
Be able to give appropriate information to parents whilst awaiting help from senior colleagues

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓

**OUTPATIENT PRESENTATIONS****Short & tall stature**

Know the causes of short stature or slow growth and the characteristics of these conditions
Know when short stature needs to be investigated
Understand and know the rationale behind the baseline and subsequent investigations
Be aware of treatments that are suitable for pathological short stature
Know about the causes of tall stature
Be able to explain to parents and patients the non serious causes of short stature e.g. genetic short stature, constitutional delay and hypothyroidism
Recognise the need to rule out Turner's syndrome as a cause of short stature in girls

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
✓	

**Delayed and early puberty**

Know the causes of early and late puberty
Know the causes and possible investigation of early and late puberty
Recognise when the cause may be pathological rather than physiological

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
✓	

**Goitre and thyroid disorders**

Know the causes of congenital and acquired hypothyroidism
Know about the national screening programme for hypothyroidism
Understand the need for precise treatment and monitoring during infancy and early childhood
Know the associations of auto-immune diseases and of trisomy 21
Be able to access thyroid status
Be able to recognise thyrotoxicosis
Be able to interpret thyroid function tests on and off treatment

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
✓	
✓	
	✓

**Polyuria and polydipsia**

Know the causes of this presentation including diabetes mellitus and insipidus
Know the dangers of water deprivation
Be able to select patients who may require investigation
Be able to advise parents about habit drinking
Be able to select patients who may require investigation and initiate this

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
✓	
✓	
	✓

**Obesity**

Understand the causes of obesity
Understand the long term complications
Understand interventional strategies that are involved in weight reduction
Be aware of the presentation of type 2 diabetes during childhood
Be aware that body mass index charts may be a helpful therapeutic tool
Know about the presentation of type 2 diabetes during childhood
Recognise features in the presentation which suggest serious pathology
Be able to explain the long term complications to parents
Be able to use body mass index charts to diagnose obesity

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓
	✓
✓	
✓	
	✓

**Gastroenterology and Hepatology****GENERAL COMPETENCES**

Have the knowledge and skills to be able to assess and initiate management of patients presenting with gastroenterological problems in acute and outpatient settings
Understand the role of interventional procedures e.g. endoscopy or colonoscopy in the investigation of gastroenterological disorders
Recognise when a surgical opinion is required

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	

**ACUTE PRESENTATIONS****Acute abdominal pain**

Know the causes of acute abdominal pain
recognise conditions which require urgent intervention e.g. intussusception
Recognise when to request a surgical opinion
Recognise the need to consider acute appendicitis in very young children
Recognise signs of pain in an infant or small child

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓

**Acute diarrhoea and/or vomiting**

Know the causes the symptoms of acute diarrhoea and/or vomiting
Be familiar with local isolation policies
Know about oral and intravenous fluid therapy
Understand the scientific principles for oral and intravenous fluid therapy
Recognise features in the presentation which suggest serious pathology e.g. haemolytic uraemic syndrome, appendicitis, intestinal obstruction
Implement local isolation policies

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
✓	
	✓

**Jaundice**

Know the causes of neonatal and childhood jaundice
investigate appropriately and know when to refer to specialist services

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓

**Upper and lower gastrointestinal bleeding**

Know the causes of upper and lower gastrointestinal bleeding
Understand the potentially life threatening nature of this condition
Assess the severity of the condition
Institute appropriate emergency treatment
Recognise features in the presentation which suggest serious pathology

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓

**Abdominal distension**

Know the causes of abdominal distension
Initiate investigation and seek surgical opinion when required

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓

**Acute liver failure**

Be familiar with the causes of acute liver failure
Be familiar with the complications of acute liver failure
Know the management of paracetamol poisoning
Know the causes of acute liver failure
Recognise the need to discuss the case with the liver unit early
Be able to assess the severity and complications of this condition
Be able to initiate appropriate resuscitation and liaise early with the paediatric liver unit
Be able to initiate appropriate resuscitation and liaise early with the paediatric liver unit and continue care until transfer occurs

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
✓	
	✓
	✓

**Congenital abnormalities**

Know the presenting features of congenital abnormalities including tracheo-oesophageal fistula, malrotation, bowel atresias, Hirschsprungs disease, abdominal wall defects, diaphragmatic hernia
Be familiar with potential associated abnormalities
Know when antenatal transfer to a Neonatal Surgical Centre should be considered
Institute appropriate emergency treatment
Recognise the need to liaise with surgeons
Institute appropriate emergency treatment and be able to assess the fitness of the baby and the need to transfer to a specialist centre
Recognise when the bowel might be compromised
Recognise the need to liaise with surgeons and when this is urgent

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
	✓
	✓
	✓

**Gastro-oesophageal reflux and oesophagitis**

Know the range of presentations of gastro-oesophageal reflux and oesophagitis in otherwise well infants and children and also in disabled children
Recognise the range of signs and symptoms associated with gastro-oesophageal reflux and oesophagitis
Manage mild and moderate gastro-oesophageal reflux and recognise when to refer

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓

**OUTPATIENT PRESENTATIONS****Chronic or recurrent abdominal pain**

Know the possible biological, psychological and social contributing factors in chronic or recurrent abdominal pain
Know which features suggest that reassurance rather than investigation is needed
Recognise features in the presentation that suggest the importance of different aetiologies
Be able to refer appropriately to Psychology when required
Consider when there might be child protection issues
Be able to manage most cases

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
✓	
	✓
	✓

**Chronic diarrhoea and/or vomiting**

Know the causes of Chronic diarrhoea and/or vomiting
Be aware of the characteristics of bulimia
Be able to instigate investigations

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓



**Constipation with or without soiling**

Be familiar with local and national guidelines for management
Know about predisposing conditions e.g. hypothyroidism, neurodisability, psychosocial problems
Understand the relevance of predisposing conditions e.g. hypothyroidism, neurodisability, psychosocial problems
Manage simple constipation with and without soiling
Recognise when to liaise with more senior paediatricians or with specialist nurses, psychologists or psychiatrists
Be able to follow local and national guidelines for management

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	
✓	
	✓

**Dysphagia**

Know the causes of dysphagia
Be able to distinguish between organic and functional dysphagia

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	

**Malabsorption**

Know the causes of malabsorption including celiac disease and cystic fibrosis and its consequences
Understand the principles of treatment of the different types of malabsorption
Recognise the role of the dietician and to liaise appropriately
Be able to explain and initiate investigations, nutritional assessment, dietary principles and liaise appropriately with the dietician

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓

**Malnutrition**

Know the causes of malnutrition including organic and non-organic causes
Be familiar with the consequences of malnutrition
Know the principles of enteral and parenteral nutrition support
Be able to assess nutritional status
Be able to initiate investigations to establish the diagnosis and to detect nutritional deficiencies

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	

**Iron deficiency anaemia**

Know the causes of iron deficiency anaemia including poor diet, bleeding and malabsorption
Understand factors which predispose to dietary iron deficiency anaemia
Be aware of the consequences of this condition
Be able to manage iron deficiency anaemia
Be able to counsel parents about preventing dietary iron deficiency

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓

**Genetics and Dysmorphology****GENERAL COMPETENCES**

	Level 1 (ST1-3)	Level 2 (ST4-5)
Understand the scientific basis of chromosomal disorders and inheritance	✓	
Be able to construct a family tree and interpret patterns of inheritance	✓	
Understand the basis of molecular genetics	✓	
Know about the features of some common chromosome disorders	✓	
Know the basis of prenatal screening and diagnosis, the conditions for which they are used and the ethical dilemmas they pose.	✓	
Be able to describe the features of a baby or child associated with common malformation or deformation syndromes	✓	
Have an awareness of the use and non directive nature of genetic counselling	✓	
Understand the risks of and cultural issues posed by consanguinity	✓	
Have an understanding of the ethical dilemmas and the implications of pre-symptomatic or carrier testing in children	✓	
Have experience of how geneticists work with fetal medicine specialists, neonatologists and paediatric surgeons	✓	
Be able to recognise features suggesting dysmorphic or genetic syndromes and to identify associated anomalies	✓	
Know the processes involved in establishing and presenting the diagnosis to parents	✓	
Have experience of interviews where diagnoses of serious conditions are communicated to parents	✓	
Know what to do when the diagnosis of Down's syndrome is suspected at delivery or on the postnatal wards	✓	
Be aware of environmental factors which may affect pre-natal development, e.g. alcohol and drugs	✓	
Recognise the features of common chromosome disorders		✓
Be able to recognise and investigate common malformation or deformation syndromes and to identify associated anomalies		✓
Begin to participate in establishing and presenting the diagnosis to parents		✓
Be able to give appropriate information to parents while awaiting help from senior colleagues		✓
Be able to respond appropriately when the diagnosis of Down's syndrome is suspected at delivery or on the post-natal wards		✓
Be able to follow local and national protocols for the management of genetic disorders		✓

**Haematology and Oncology****GENERAL COMPETENCES**

Have the knowledge and skills to be able to assess patients presenting with haematological or oncological presentations in inpatient and outpatient settings
Be able to initiate management in common presentations of non-malignant disorders
Be aware of the role of specialist nurses and other members of palliative care teams
Know the principles of cancer treatment
Be aware of the short and long term side effects of chemotherapy and radiotherapy
Be familiar with the indications and complications of bone marrow transplantation
Know about national and local blood transfusion policies and procedures
Have the knowledge and skills to be able to assess and initiate investigation of patients presenting with haematological or oncological presentations in inpatient and outpatient settings
Work effectively with specialist nurses and members of palliative care teams
Know the short and long term side effects of chemotherapy and radiotherapy and be able to explain the common ones
Know about local policies for intrathecal cytotoxic therapy

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓
	✓
	✓

**ACUTE AND OUTPATIENT PRESENTATIONS****Anaemia**

Know and understand the causes of anaemia
Understand the investigations which may clarify the diagnosis
Know how to counsel parents about hereditary anaemias
Understand the predisposing factors and consequences of iron deficiency anaemia
Understand the hereditary basis and clinical features of sickle cell anaemia and the thalassaemias
Understand the long term implications for families
Know about the potential consequences of haemolytic anaemia
Be able to manage iron deficiency anaemia
Be able to explain screening for the thalassaemia or sickle cell trait
Be able to recognise and initiate management of sickle cell crisis
Be able to investigate anaemia and recognise serious underlying pathology
Be able to manage sickle cell crisis, including safe administration of fluid and analgesia

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓

**Polycythaemia**

Know the causes and treatment of polycythaemia in the newborn period
Understand why children with cyanotic congenital heart disease are vulnerable to polycythaemia
Be able to describe the process of partial plasma exchange transfusion in a new born infant
Be able to undertake partial plasma exchange transfusion in a new born infant

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓

**Neutropaenia**

Understand the significance of fever in a neutropaenic patient
Understand the differing risks of neutropaenia in different conditions and treatment regimens
Be able to manage febrile neutropaenia with guidance
Be able to manage febrile neutropaenia, following local network guidelines and recognising when to liaise with specialist services

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
✓	
	✓

**Purpura and bruising**

Know the causes of purpura and bruising
Recognise features in the presentation which suggest serious pathology or child abuse
Understand immune mechanisms in vasculitis and in allo- and auto- immune thrombocytopenia
Be able to explain Henoch-Schonlein purpura to parents
Know how to explain idiopathic thrombocytopenic purpura to parents
Be able to explain idiopathic thrombocytopenia (ITP) to parents including when precautions and treatment are necessary
Be able to manage acute bleeding in haemophilia and Von Willibrands disease
Use genetic counselling services appropriately
Be able to explain Henoch-Schonlein purpura to parents and manage patients

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	
✓	
	✓
	✓
	✓

**Other haemorrhage due to coagulopathy**

Know the causes and presentations of haemorrhagic disease of the newborn
Understand the hereditary basis of haemophilia and other coagulation disorders
Be able to discuss the need for prophylactic vitamin K with parents
Be able to recognise and treat haemarthrosis in a patient with haemophilia
Be able to recognise and treat haemarthrosis in a patient with haemophilia and be aware of the need to treat urgently, with appropriate advice

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓

**Leukaemia**

Be aware of the different types of leukaemia and of their prognoses
Recognise and understand the clinical manifestations of leukaemia
Know the different types of leukaemia and of their prognoses
Be able to recognise the immediate dangers of leukaemia to the newly presenting child
Be aware of national trials and protocols
Be able to recognise and initiate investigations to diagnose leukaemia
Be able to follow local and national protocols in treating leukaemia and associate infections

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	
✓	
	✓
	✓

**Lymphomas**

Know the clinical features of Hodgkin's disease and non-Hodgkin's lymphoma
Know the features which suggest lymphadenopathy may be malignant and how it may be investigated
Be aware of staging and protocols for treatment

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
✓	

### Other solid tumours

Know about the clinical presentation, treatment and prognosis of nephroblastoma and neuroblastoma
Be aware of the clinical features and investigation findings of other solid tumours
Be aware of staging and protocols for treatment
Be able to recognise the presenting features of these tumours

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	

### Transfusion

Understand the risks of administering blood products
Know the indications for irradiated blood products
Recognise the concerns of some groups in society in relation to blood products
Follow transfusion procedures correctly
Explain the risks and benefits
Order blood products
Appropriately manage transfusion reaction

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓
	✓
	✓
	✓
	✓

**Infection, Immunology and Allergy****GENERAL COMPETENCES**

Have the knowledge and skills to be able to assess and initiate management of patients
Know and understand host defence mechanisms and their pattern of development
Know the causes of vulnerability to infection
Know and understand the classification of infectious agents
Know the mechanisms of maternal to fetal transmission of infection and the clinical manifestations of these infections
Know the epidemiology, pathology and natural history of common infections of the foetus, newborn, and children in Britain and important worldwide infections, e.g. TB, HIV, hepatitis, B, malaria, Polio
Be able to follow agreed local and national guidelines on notification of infectious diseases
Understand the rationale for prescribing common antimicrobials
Know the indications for antimicrobial prophylaxis
Understand the mechanisms of drug resistance
Understand nosocomial infections and the basic principles of infection control
Be aware of the policies for notifying communicable diseases
Understand the pathophysiology and the principles of treatment of allergic and autoimmune disorders
Understand the classification of immunodeficiencies
Know the clinical manifestations of the different types of immunodeficiencies
Know the conditions and treatments which results in secondary immunodeficiencies
Recognise indications for and be able to prescribe appropriate first line common anti-microbials
Be able to prescribe antimicrobial prophylaxis appropriately
Apply principles of infection control
Take responsibility for notifying communicable diseases
Be able to use the antibiotic policies and understand the development of resistant organisms
Be able to assess and institute appropriate management of infection in an immuno-compromised child

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓
	✓
	✓
	✓
	✓
	✓

**ACUTE PRESENTATIONS****Septic shock**

Understand the pathophysiology of septic shock and its complications
Know local and nationally agreed guidelines for the management of septic shock including meningococcal disease
Be aware of the differential diagnosis of septic shock
Be able to recognise the early features of septic shock
Be able to lead the team when initiating resuscitation and treatment
Be able to liaise with anaesthetic and PICU staff
Be able to initiate and lead immediate management of early and advanced features of septic shock
Be able to liaise effectively with anaesthetic and PICU staff and manage patient until transfer team takes over

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓

**Fever of unknown origin**

Know the possible causes of fever of unknown origin
Understand aspects of social history that are relevant to explore
Recognise features in the presentation which suggest serious or unusual pathology
be able to initiate investigations to establish cause

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
✓	
	✓

**Anaphylaxis**

Know the management of anaphylaxis guidelines
Be able to lead the team when initiating resuscitation and treatment
Be able to liaise with anaesthetic and PICU staff
Be able to lead the team to provide advanced life support
Be able to advise on the future risk of anaphylaxis and facilitate an appropriate anaphylaxis management plan by liaising with community teams

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓

**OUTPATIENT PRESENTATIONS****Recurrent infections**

Understand why children suffer recurrent infections
Be aware of conditions which predispose to infection
Understand why children suffer recurrent infections and know which conditions predispose to infection
Recognise features in the presentation which suggest serious underlying pathology
Recognise and investigate appropriately features in the presentation which suggest underlying pathology

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	
	✓

**Food intolerance and other allergies**

Know the common offending foods
Be aware of the investigations that are available and of their limitations
Know the features of cows' milk protein intolerance and its management
Know the foods that can trigger IgE – mediated reactions
Understand the investigations that are available and of their limitations
Know the features of cows' milk protein intolerance and its management
Understand the mechanisms of IgE and non IgE food allergy, food intolerance due to pharmacological effects of food and food intolerance due to enzyme deficiencies
Recognise the potential serious nature of food allergy
Advise on the appropriate use of adrenalin
Be able to distinguish allergy from intolerance and be able to explain to parents

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓
	✓
	✓
	✓
	✓
	✓

**Immunisation**

Understand passive and active immunisation
Understand the principles and the rationale behind the national immunisation policy for children in Britain
Know the indications, contraindications and complications of routine childhood immunisations
Be able to advise parents about immunisations

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	

**Metabolic Medicine****GENERAL COMPETENCES**

	Level 1 (ST1-3)	Level 2 (ST4-5)
Recognise the clinical and biochemical features of electrolyte and acid base disturbances	✓	
Know the common clinical presentations of metabolic disease including encephalopathy, neurodevelopmental regression, muscle weakness, visceromegaly and failure to thrive	✓	
Know when it is appropriate to perform metabolic investigations in neonates and children	✓	
Know the appropriate screening investigations that should be performed when a metabolic disorder is suspected	✓	
Know further investigations that should be performed in order to establish a diagnosis of a metabolic disorder	✓	
Be able to interpret commonly used investigations and understand how these differentiate between metabolic disorders including those that result in cot death	✓	
Know about the common biochemical findings in an acutely ill newborn or child presenting with metabolic disease including hypoglycaemia, hyperammonaemia or metabolic acidosis	✓	
Understand when it is appropriate to investigate, and which investigations to perform, in a neonate or child with visceromegaly	✓	
Know the causes of metabolic bone disease and investigations to differentiate between the causes	✓	
Know when it is appropriate to consider porphyria in a child presenting with abdominal pain	✓	
Understand the principles of dietary, vitamin and pharmacological treatment of metabolic disorders	✓	
Be aware of those metabolic disorders which are vitamin responsive or responsive to pharmacological treatment	✓	
Know about the metabolic disorders which may respond to enzyme therapy or bone marrow transplantation	✓	
Know the routine screening tests for metabolic disease and be able to explain them to parents	✓	
Know the inheritance patterns of common genetically determined metabolic disorders	✓	
Know about the educational and social implications of metabolic disorders and the importance of organising support in the community for special diets and other risks	✓	
Recognise and be able to manage the clinical and biochemical features of electrolyte and acid base disturbances		✓
Know the common clinical presentations and principles of management of metabolic disease including encephalopathy, neurodevelopmental regression, muscle weakness, visceromegaly and faltering growth		✓
Be able to initiate metabolic investigations in neonates and children and in urgent situations		✓
Know what samples must be taken in metabolic investigations at the time of presentation and the importance of liaison with laboratories to ensure use of the appropriate container, handling and storage		✓
Know which metabolic disorders are associated with learning difficulties and manage timely referral for those at risk		✓



**Musculo-Skeletal medicine****GENERAL COMPETENCES**

know the differential diagnosis of musculoskeletal presentations including inflammatory, non-inflammatory and idiopathic causes
Take an appropriate history, musculoskeletal examination and assessment
Recognise when to request the opinion of paediatric rheumatologists or orthopaedic surgeons
Recognise features in the clinical presentation or investigation findings which suggest serious pathology, e.g. inflammation, malignancy, infection and vasculitis
Recognise features in the clinical presentation or investigation findings which suggest physical abuse, emotional abuse and neglect
Understand the role of the multi-disciplinary team and other professionals involved in the care of children with musculoskeletal conditions
Be aware of the complications of immunosuppressive treatment
Understand the disease associations of rheumatological conditions, in particular juvenile arthritis and eye disease
Understand the association of musculoskeletal presentations and common chronic diseases (such as psoriasis, inflammatory bowel disease)
Understand the initial investigations to establish a diagnosis
Understand the indication for and complications of immunosuppressive treatment
Be aware of congenital bone, inherited or metabolic conditions and their musculoskeletal presentations
Interpret investigations that are helpful in establishing a differential diagnosis

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓
	✓

**ACUTE PRESENTATIONS****Joint swelling**

Know the causes of joint swelling at single and multiple sites
Know when to refer for a specialist opinion
Be able to identify joint swelling and abnormal range of joint movement on clinical examination
Be able to perform a musculoskeletal assessment including a screening examination and an approach to more detailed examination

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓

**Musculoskeletal pain**

Know the varied causes of musculoskeletal pain
Be aware of referred pain
Know when to refer for a specialist opinion
Know the varied causes of musculoskeletal pain including referred pain and features that suggest different causes
Perform a musculoskeletal examination
Perform a musculoskeletal examination including a screening and appropriate regional examination

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
✓	
	✓

**Limp**

Know the differential diagnosis of a limp at different ages and clinical presentations
--

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	

**Limb pain**

Know the differential diagnosis of limb pains
Be aware of the clinical features of benign hypermobility and non-benign hypermobility (e.g. Marfans syndrome)
Be able to distinguish between inflammatory and non-inflammatory conditions
Be able to assess joint laxity
Be able to distinguish between inflammatory and non-inflammatory conditions and recognise features that suggest serious pathology

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓

**Back pain and neck pain**

Be aware of the causes of back/neck pain and be aware of features that may suggest serious underlying pathology
Know the causes of scoliosis
Know the indications of further/urgent investigations and referral for a specialist opinion
Know the common causes of Torticollis
know the causes of back/neck pain
Be able to recognise scoliosis

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓
	✓

**Leg alignment (normal variants)**

Be aware of normal patterns of leg alignment and foot posture (bow legs, knock knees, in-toeing and flat feet) at different ages
Be aware of indications for investigation and when specialist opinion is required
Know the predisposing factors and presentation of rickets
Know normal patterns of leg alignment and foot posture (bow legs, knock knees, in-toeing and flat feet) at different ages
Be able to recognise the clinical presentation and radiological features of rickets

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓

**Multi-system disease**

Be able to distinguish between inflammatory and non-inflammatory conditions
---

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	

**Neonatology****GENERAL COMPETENCES**

	Level 1 (ST1-3)	Level 2 (ST4-5)
Be able to examine the newborn baby appropriately and with sensitivity	✓	
Be able to perform an accurate assessment of the baby at birth	✓	
Have the knowledge and skills to be able to assess and initiate management of babies presenting in the neonatal period with problems (in acute, postnatal ward and outpatient settings)	✓	
Be able to initiate appropriate resuscitation when required	✓	
Know and understand the effects of antenatal and perinatal events on outcome	✓	
Know and understand the pathophysiology of the effects of prematurity	✓	
Be able to recognise and outline the management of some common disorders	✓	
Be able to initiate diagnostic tests for common disorders	✓	
Understand the principles of mechanical ventilation and resuscitation	✓	
Be able to perform a reliable assessment of fluid status and initiate appropriate fluid management	✓	
Understand the principles of parenteral nutrition	✓	
Understand the principles and importance of nutrition in the neonatal period	✓	
Have experience of basic practical procedures and tests and be able to understand the results	✓	
Understand the principles of prescribing for newborn babies and breastfeeding mothers	✓	
Understand the life-threatening nature of some of these situations and when to call for help or look for personal support	✓	
Know when and how babies are transferred for specialist levels of intensive care	✓	
Understand the implications for families of babies with neonatal problems	✓	
Begin to develop strategies to communicate sympathetically with parents	✓	
Understand the long-term sequelae of prematurity and begin to recognise those at risk	✓	
Know about the retinopathy of prematurity and its prevention and treatment	✓	
Be able to recognise and manage common disorders		✓
Have the knowledge and skills to be able to assess and manage babies presenting in the neonatal period with problems (in acute, postnatal ward and outpatient settings)		✓
Know and be able to describe the effects of antenatal and perinatal events on outcome		✓
Know and be able to describe the pathophysiology of the effects of prematurity		✓
Be able to initiate diagnostic tests for common disorders and to interpret and explain results to parents		✓
Understand the principles of and initiate mechanical ventilation and resuscitation		✓
Be able to perform a reliable assessment of fluid status and adjust fluid management		✓
Understand the principles of parenteral nutrition and be able to prescribe safely		✓
Be skilled in practising and be able to teach basic practical procedures		✓
Be able to prescribe safely for newborn babies and breastfeeding mothers		✓
Recognise the life-threatening nature of some of these situations and the need to call for help or look for personal support		✓
Understand the implications for families of babies with neonatal problems and begin to support them		✓
Be able to develop strategies to communicate sympathetically with parents and have experience of strategies for dealing with their distress		✓

or anger
Be able to describe the long-term sequelae of prematurity and recognise those at risk
Be able to initiate and lead advanced resuscitation when required
Have successfully completed a neonatal life support course
Usually be able to obtain appropriate arterial and venous access
Understand the principles and importance of nutrition in the neonatal period including assessment of nutritional status, the steps needed to establish breast feeding, and nutritional supplementation
Be able to apply clinical reasoning when selecting tests and be able to understand the results sufficiently well to be able to explain them to parents and members of the multi-disciplinary team
Be able to decide on appropriate referrals for transfer to other units, communicate effectively with all involved and maintain care as safely as possible until transfer team takes over
Know how to interpret radiological investigations including the basic features of cranial ultrasound and discuss basic findings with parents
Know how to refer appropriately to community services before discharge and begin to participate in the follow up of those at risk
Know about follow-up programmes for those at risk
Be able to describe the ethical issues relating to neonatal intensive care

	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓

**Birth depression**

Know the causes and possible outcomes
Understand the principles of resuscitation
Know the criteria necessary before perinatal asphyxia can be diagnosed
Understand the physiological effects of a hypoxic-ischaemic insult
Know the statistics of the outcomes of birth depression
Understand the physiology of resuscitation and the responses to it
Understand the long term implications of hypoxic-ischaemic damage
Be able to initiate resuscitation using bag and mask ventilation and cardiac compressions
Can intubate term babies and have had supervised experience of intubating preterm babies
Recognise features which suggest significant consequences
Be able to provide and lead basic and advanced resuscitation, including intubation
Be able to intubate pre-term babies without direct supervision
Be able to recognise and imitate management to prevent secondary damage

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓
	✓
	✓
✓	
✓	
✓	
	✓
	✓
	✓

**Respiratory Distress (acute and chronic)**

Understand the common causes of respiratory distress
Know the relevant investigations, understand the principles and complications of ventilation
Know the guidelines for surfactant therapy
Understand the pathophysiology and management of chronic lung disease
Understand the contribution of patent ductus arteriosus to respiratory compromise
Understand the principles and complications of differing ventilation techniques
Be aware of the indications for ECMO and nitric oxide therapies

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
	✓
	✓

Know the images needed and safe positions for arterial and venous lines
Have seen echocardiography where patent ductus arteriosus is diagnosed
Be able to interpret chest radiographs
Be able to administer surfactant
Be able to initiate respiratory support
Be able to suspect and diagnose pneumothorax
Recognise when to request help from a medical or nursing colleague
Obtain, interpret and act appropriately on blood gas results
Be able to insert umbilical arterial and venous lines
Be able to identify signs suggestive of patency of the duct and describe management options
Be able to interpret chest radiographs and act on results
Be able to identify signs of patent ductus arteriosus and initiate management
Be able to initiate and continue to manage respiratory support on a ventilator
Be able to diagnose pneumothorax and know when chest drainage is indicated
Recognise when response to management is not optimal and request help from senior colleagues or other services
Know the steps that need to be taken to discharge a baby on long term oxygen into the community
Be able to teach and supervise the insertion of umbilical, arterial and venous lines

	✓
	✓
✓	
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓
	✓
	✓
	✓
	✓
	✓

**Cyanosis not of respiratory origin**

Understand the anatomy and implications of cyanotic congenital heart disease
Understand the pathophysiology of persistent pulmonary hypertension and know about treatment
Be able to suspect the diagnosis and initiate appropriate investigations
Be able to make a likely diagnosis and initiate appropriate investigations and treatment

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓

**Hypotension**

Understand the causes and effects
Understand the rationale for different treatment options
Be able to interpret and act on blood pressure measurements

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	

**Intra-uterine growth restriction and other nutrition problems**

Understand the importance of breastfeeding
Know the causes of intra-uterine and postnatal growth failure
Understand the principles of parenteral nutrition
Know about risk factors for necrotising enterocolitis
Understand the importance of nutrition in sick babies
Know about the signs, symptoms and complications of necrotising enterocolitis
Be able to keep and interpret accurate growth records
Be able to prescribe appropriate nutrition supplements

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓
	✓
✓	
✓	

Be able to insert a percutaneous long line
Be able to recognise early signs of necrotising enterocolitis and initiate treatment
Be able to assess appropriate position of percutaneous long line from imaging
Be able to recognise and begin to address poor growth

✓	
✓	
	✓
	✓

**Fluid and blood product therapy**

Know the fluid requirements of preterm and sick babies
Know the causes of abnormal coagulation
Know the indications for therapy with blood products
Know the fluid requirements of pre-term, sick and growth-restricted babies
Know when irradiated blood products are indicated
Be able to assess fluid balance
Recognise the need for blood product transfusions
Be able to test for and recognise bleeding disorders
Be able to act to correct fluid balance abnormalities
Be able to prescribe blood product transfusions
Be able to initiate treatment for bleeding disorders

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓
✓	
✓	
✓	
	✓
	✓
	✓

**Neonatal seizures or abnormal neurological status including the floppy baby**

Understand the aetiology and prognosis of abnormal neurological status
Know about periventricular haemorrhage and leucomalacia
Know about the management of post-haemorrhagic hydrocephalus
Know the possible causes and effects of seizures
Know the possible causes of abnormal tone
Be able to perform a neurological assessment
Be able to recognise the basic features of cranial ultrasound scans
Be able to recognise and initiate management of seizures
Have had some experience of performing cranial ultra-sound
Be able to make a likely diagnosis and initiate management of seizures
Have experience of how bad news is communicated to parents

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓
✓	
✓	
✓	
	✓
	✓
	✓

**Serious congenital abnormalities**

Understand the underlying pathology
Understand the use of antenatal diagnosis and the role of fetal medicine
Be aware of surgical interventions
Understand the impact on parents of the birth of a baby with serious congenital abnormalities or potential disabilities and the ensuing grief due to loss of the expected normal child
Understand the role of fetal medicine and interventions that are available
Be able to recognise serious abnormalities
Be able to initiate appropriate tests

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓
✓	
✓	

Be able to respond to parents' immediate questions
Be able to diagnose common syndromes
Be able to refer appropriately to parent support groups and to community services before discharge
Be able to break bad news to parents

✓	
	✓
	✓

**Sepsis**

Know the likely pathogens
Understand the importance of timely treatment
Know about nosocomial infection
Understand the importance of timely treatment, know the range of treatments and the likely pathogens
Recognise early signs of sepsis and initiate therapy appropriately
Practise effective infection control
Anticipate early signs of sepsis and initiate appropriate anti-microbial therapy and supportive management

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
✓	
✓	
	✓

**The dying baby**

Understand the ethical principles involved
Know about terminal care and bereavement counselling
Understand the ethical principles in withdrawing or withholding care from an infant
Be able to communicate sympathetically with parents
Begin to develop strategies to deal with personal stress and know when to look for support
Be able to communicate sympathetically with staff
Be able to deal with personal stress and know when to look for support

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	
✓	
	✓
	✓

**POSTNATAL WARD AND OUTPATIENT PRESENTATIONS****Jaundice**

Understand the investigations that will differentiate between the causes of conjugated and unconjugated hyperbilirubinaemia
Know the appropriate management
Know how an exchange transfusion is performed
Know the investigations that will diagnose the causes of conjugated and unconjugated hyperbilirubinaemia
Know how and when to undertake an exchange transfusion
Be able to diagnose haemolytic jaundice
Be able to prescribe phototherapy appropriately
Recognise features which suggest serious pathology
Be able to manage haemolytic jaundice
Anticipate the need for an exchange transfusion appropriately
Be able to undertake a full exchange transfusion without supervision
Be able to investigate and manage prolonged neonatal jaundice appropriately

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓
✓	
✓	
✓	
	✓
	✓
	✓
	✓
Level 1 (ST1-3)	Level 2 (ST4-5)

**Feeding**

Understand the importance of breastfeeding
know the causes of feeding problems
Know the local policies on feeding
Be able to support and advise breastfeeding mothers
Be able to identify underlying pathology or failure to thrive
Be able to make appropriate recommendations to address feeding problems and faltering growth (failure to thrive)

✓	
✓	
	✓
✓	
✓	
	✓

**Infants of diabetic mothers**

Understand the physiology
Know the likely complications
Know when admission to a neonatal unit is indicated
Be able to interpret blood glucose estimations
Be able to initiate appropriate management
Be able to anticipate problems early and manage appropriately

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	
✓	
	✓

**Minor congenital abnormalities**

Know the common diagnoses and the likely prognosis of minor congenital abnormalities
Know about common presentations of congenital cardiac disease
Know about common presentations of congenital cardiac disease and which need urgent action
Be able to advise parents appropriately
Recognise when referral to an appropriate specialist is needed
Be able to ensure that referral to an appropriate specialist or service occurs

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	
✓	
	✓

**Disordered development**

Know the causes and natural history of conditions causing disordered development
Understand current theories about the pathophysiology of cerebral palsy
Understand the common complications of cerebral palsy and disordered development and how to access expert assessment and management
Understand current theories about retinopathy of prematurity and sensori-neural hearing loss and how these conditions may be prevented
Be able to perform a developmental assessment
Be aware of the need for involvement of the multidisciplinary team
Understand the impact of developmental delay on families
Be able to perform a neurological assessment
Be able to make a timely and appropriate referral to the multidisciplinary team
Have seen examples of the effect of developmental difficulties on families

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
✓	
✓	
✓	
	✓
	✓
	✓



**Screening**

Know the range of screening tests used including the newborn examination
Know about the universal Newborn Hearing Screening Programme
Understand the difference between a screening and a diagnostic test
Understand the investigations that will follow
Know about developmental dysplasia of the hip
Know about retinopathy and cataract screening
Know the management of developmental dysplasia of the hip
Be able to explain the implications of a screening test to parents
Order such tests appropriately
Be able to perform a newborn examination effectively (including heart, pulses, hips, palate and eyes for red reflex)
Be able to perform clinical screening tests
Be able to explain the difference between a screening test and a diagnostic test to parents

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
	✓
	✓
✓	
✓	
✓	
	✓
	✓

**Nephro-urology****GENERAL COMPETENCES**

Have the knowledge and skills to be able to assess and initiate management of patients presenting with nephro-urology problems in acute and outpatient settings
Be able to perform a reliable and accurate assessment of fluid status and initiate appropriate fluid management
Have the knowledge and understanding of fluid and electrolyte imbalance and blood pressure in children with kidney problems
Understand the principles of prescribing in children with renal disease
Recognise features in the presentation which suggest serious or significant pathology
Understand the role of different renal imaging techniques including ultrasound, static and dynamic isotope scans in the investigation of urinary tract disorders
Understand the role of different renal imaging techniques including ultrasound, static and dynamic isotope scans in the investigation of urinary tract disorders and recognise common abnormalities

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
	✓

**ACUTE PRESENTATIONS****Nephrotic syndrome**

Understand the complications of the nephrotic state
Understand the principles of the pharmacological, dietary and fluid management
Understand the investigations including the indication for renal biopsy
Be able to advise parents on the complications of steroid therapy
Assess features in the presentation which suggest serious or significant pathology
Be able to advise parents on long term management and complications of treatment

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓
	✓

**Acute nephritis**

Know the aetiology, pathophysiology and immunological basis of glomerulonephritides and vasculitides
Understand the investigations that will differentiate between the causes
Be aware of the range of immunosuppressive therapies that may be used in these conditions
Know the features that are prognostically significant
Know the range of immunosuppressive therapies that may be used in these conditions

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓

**Acute renal failure**

Know the causes of acute renal failure
Understand the investigations that may differentiate between these causes
Know the features of haemolytic uraemic syndrome
Understand the methods to correct fluid and biochemical abnormalities seen in renal failure
Know the indications for dialysis
Be able to assess and initiate management of life-threatening events e.g. hyperkalaemia

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓

**Hypertension**

Know the techniques of blood pressure measurement
Know the causes of hypertension and the principles of treatment
Be able to interpret blood pressure measurements
Be able to identify complications
Be able to initiate management under supervision
Be able to liaise with specialists effectively

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓
	✓

**Acute scrotal pain**

Know the differential diagnosis of this symptom
Be able to recognise the important causes of acute scrotal pain
Be able to identify children who require urgent surgical referral

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	

**Neonate with history of abnormal antenatal ultrasound of the renal tract**

Understand the causes and management of antenatal hydronephrosis
Know about the causes of echogenic or cystic kidneys
Know about the inheritance patterns of renal abnormalities detected in fetal life
Be able to recognise when to refer to a nephrologist or urologist
Be able to give basic explanation of the problem, management and prognosis to parents ante- or post-natally

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓

**Stones**

Know the causes of stone formation
Be able to recognise presenting features
Be able to initiate management under supervision

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
	✓

**OUTPATIENT PRESENTATIONS****Voiding disorders including enuresis, dysuria, frequency and polyuria**

Know both the physical and psychological causes of voiding disorders
Understand the principles of investigation of urinary tract infection and management of vesico-ureteric reflux
Understand the principles of managing enuresis
Be aware of the association of genito-urinary symptoms with child sexual abuse
Be able to take a detailed voiding history
Be able to interpret common urine microscopic and culture findings
Be able to identify relevant neurological problems
Be able to investigate and manage within guidelines

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
✓	
✓	
	✓
	✓

**Haematuria and proteinuria**

Know the causes of these signs
Understand the investigations that will differentiate between the causes
Know the indications for renal biopsy

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	

### Urogenital abnormalities

Know when surgical referral is required for circumcision, impalpable testes, hyposadias or suspected urinary tract obstruction
Be able to examine the genitalia appropriately and with sensitivity
Recognise inflammatory or traumatic lesions

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓

### Chronic renal failure

Know the causes and natural history of conditions causing chronic renal failure
Understand the pathophysiology of bone disease, anaemia and growth failure
Know about dialysis and transplantation
Appreciate the impact of chronic renal failure in childhood and later adult life
Identify growth and nutritional problems and use dietetic support effectively

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓

### Tubular disorders

Know the range of presentations suggestive of an underlying renal tubular disorder
Know about the inheritance patterns of different tubular disorders

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	

**Neurology and Neurodisability****GENERAL COMPETENCES**

	Level 1 (ST1-3)	Level 2 (ST4-5)
Have knowledge and understanding of the pathophysiology of common disorders affecting the nervous system	✓	
Know and understand the common causes of disability	✓	
Understand concepts of disability and what this means for the child and family	✓	
Be able to take an accurate neurological and neuro-developmental history	✓	
Be able to examine the nervous system of a newborn baby, child and young person	✓	
Know and understand the pathophysiology of the effects of prematurity	✓	
Be able to perform a reliable assessment of neuro-developmental status at key stages, including the newborn period, the first year of life, nursery age, school entry and late primary education	✓	
Be able to recognise a disabled child	✓	
Have the knowledge and skills to be able to initiate management of children with neurological and neurodisabling conditions in acute settings and know when and whom to call for help	✓	
Understand the life-threatening nature of acute neurological deterioration and when to call for help	✓	
Be able to recognise, initiate diagnostic tests and outline the management of common disorders	✓	
Understand the principles and use of neuro-radiological imaging	✓	
Have a basic understanding and experience of neuro-physiological tests	✓	
Understand the principles of prescribing and monitoring therapy	✓	
Have experience of working with multi-disciplinary teams	✓	
Understand the implications for families of children with neurological and neurodisabling conditions	✓	
Understand the impact of developmental disorders on the life of child and family at different developmental stages	✓	
Understand the need for a range of communication skills with disabled children, their families and other professionals	✓	
Be able to work with families and professionals in the care of disabled children	✓	
Be aware of local services	✓	
Understand the need to work with other services outside neurology and neurodisability such as child protection, education, services for looked after children and adult services	✓	
Develop a commitment to advocacy on behalf of disabled children and their families	✓	
Be aware of how agencies work together to address how children with health and medical needs are managed at school	✓	
Have worked on specific cases with multidisciplinary teams		✓
Have experience of a range of communication skills with disabled children, their families and other professionals		✓
Be aware of local services and how to access them		✓
Have experience of working with other services outside neurology and neurodisability such as child protection, education, services for looked after children and adult services		✓
Have experience of how agencies work together to address how children with health and medical needs are managed at school		✓
Have had experience of working in special schools		✓
Be aware of the role of the Designated Medical Officer to the Local Education Authority		✓
Be aware of the statutory requirement to notify children who may have special educational needs to the LEA and know how to do so		✓

Be able to write SEN medical reports on simple cases
Have experience of the local Special Educational Needs (SEN) panel
Have experience of SEN annual reviews and transition planning
Be able to distinguish simple developmental delay from developmental disorders and to manage simple cases
Be able to recognise and come to a likely diagnosis of common developmental disorders such as cerebral palsy, dyspraxia, ADHD, specific learning difficulties and arrange timely and appropriate specialist assessment
Know how equipment can be used to lessen the effects of disability and how to refer
Know about and be prepared to find out about self-help and support groups for children and their families with conditions in their specialist area and be aware of the requirement to tell parents about these groups
Be able to write reports on medical or developmental conditions for parents and non-clinical staff in education and elsewhere that are easily understood by the lay person, and that explain the implications of the condition and how it may impact on the child and his or her carers in non clinical settings
Know about what benefits may be payable to the disabled child and/or carers and how they may be accessed
Know about local respite facilities and how they may be accessed

	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓

**Seizures**

Know the common causes of seizures in newborn babies and children
Be aware of common epileptic syndromes
Understand the principles of initial and continuing anticonvulsant therapy in babies and children
Begin to understand the links between epilepsy and behaviour problems
Understand the place and principles of the EEG and neuro-imaging in investigation
Know about the long term implications of epilepsy
Know about common epileptic syndromes
Understand the links between epilepsy and behaviour problems
Know about the long term implications of epilepsy, including different epilepsy syndromes and the risk of learning difficulties, accident or sudden death
Be able to initiate treatment for acute continuing seizures
Be able to form a differential diagnosis
Work effectively with the multidisciplinary team
Be able to refer to intensive care teams appropriately and maintain patient safety until that team takes over
Be able to decide initial and continuing anticonvulsant therapy in babies and children
Be able to advise parents about education and safety

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓
	✓
✓	
✓	
✓	
	✓
	✓
	✓

**Faints and 'funny turns'**

Be able to form a differential diagnosis for faints and 'funny turns'
Understand the investigations that may differentiate between these causes
Be able to initiate the investigations that may differentiate between these causes
Be able to make a likely diagnosis
Be able to explain likely diagnoses to parents

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	
✓	

**Acute focal neurological signs**

Understand the implications of acute focal neurological signs
Understand the principles of investigation
Be able to demonstrate the signs
Begin to gain experience of interpretation of CT and MRI scans
Have experience of how diagnoses are given to parents
Be able to interpret the signs
Have experience of interpretation of CT and MRI scans
Be able to initiate consultation to give diagnoses to parents

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
	✓
	✓
	✓

**Ataxia, clumsiness and abnormal movement patterns**

Know the common possible causes of ataxia, clumsiness and abnormal movement patterns
Know the indications for investigations
Be able to recognise the signs
Recognise which urgent investigations are needed

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	

**Hypotonia, neuropathies and myopathies**

Know the common possible causes of hypotonia, neuropathies and myopathies
Know about the relevant neurophysiological and metabolic investigations
Be able to demonstrate the signs
Be able to form a likely differential diagnosis
Be able to elicit and interpret the signs
Be able to initiate appropriate tests

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓
	✓

**Meningism and altered consciousness**

Know the likely causes or pathogens of meningism and altered consciousness
Understand the principles of treatment
Know about prophylactic therapy for contacts of meningitis
Know when it is safe to perform a lumbar puncture
Know the principles of brain stem death
Recognise early signs of meningitis and encephalitis
Use a validated coma score
Recognise signs and implications of raised intra-cranial pressure
Initiate therapy appropriately
Call for help promptly
Recognise the need for urgent referral to audiology specialists after bacterial meningitis
Assess and manage early presentations of meningitis and encephalitis
Use a validated coma score
Assess and initiate management of raised intra-cranial pressure

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓
	✓

**Neural tube defects and other congenital abnormalities**

Know about antenatal diagnosis of neural tube defects and other congenital abnormalities
Know about the ethical principles involved in management decisions
Know about antenatal diagnosis of neural tube defects, other congenital abnormalities and their prevention
Be able to recognise syndromes
Be able to communicate sympathetically with parents
Be able to recognise the signs and symptoms of blocked shunts

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	
✓	
	✓

**Trauma to central and peripheral nervous systems**

Be aware of the implications of severe head injury and the possibilities for rehabilitation
Know about other neurological trauma such as brachial plexus injury
Be aware of acute management and need to transfer appropriately
Recognise the place of occupational and physiotherapy
Be able to lead initial acute management and transfer appropriately
Work effectively with the multidisciplinary team to manage the medium and longer term applications and rehabilitation

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓
	✓

**Fever or illness in a child with complex disabilities**

Be aware of range of diagnostic possibilities, including chest infection, aspiration, gastro-oesophageal reflux, oesophagitis, constipation, hip and joint problems, dental problems etc
Know when and where to get help
Be able to assess child with complex disabilities who is unwell
Be able to recognise important indicators of specific conditions

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
✓	
✓	

**COMMUNITY AND OUTPATIENT PRESENTATIONS****Neuro-developmental regression**

Be familiar with the main investigations that will differentiate between the causes of neuro-developmental regression and how to access further expert help
Understand the implications
Be able to assess development
Be able to recognise regression of developmental skills and refer appropriately for investigation

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓

**Disordered development**

Understand the common causes of disability, disordered development, and learning difficulties
Know about the current theories on the pathophysiology of cerebral palsy
Know about common secondary disabilities
Understand the complications of cerebral palsy and disordered development
Know about common secondary disabilities and co-morbidities
Be aware of the work of the child development team or centre
Have experience of working with the child development team or centre
Recognise common causes of disordered development, manage simple problems and refer complex difficulties appropriately for specialist investigation and treatment

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓
✓	
	✓
	✓



**Speech and language delay including hearing loss**

Know the common causes
Be aware of the support available for hearing impaired children
Be aware of the importance of hearing assessment in children
Know about multi disciplinary investigation and therapy for those with more complex disorders
Know the risk factors for sensorineural hearing impairment
Know the principles of hearing testing at all ages
Know the support available for hearing impaired children
Know how to communicate with a hearing impaired child or language disordered child including the child with autism
Understand the importance of hearing assessment in children with speech and language problems and autistic spectrum disorders
Recognise when referral to a specialist is needed
Recognise the need for referral to audiology specialists or to an ENT surgeon
Be able to distinguish simple phonological delay from more significant disorders
Be able to recognise abnormal speech and language patterns
Recognise the need for referral to audiology specialists or to an ENT surgeon
Recognise autistic features in disordered developmental assessments and know how to refer appropriately

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓
	✓
	✓
	✓
	✓
✓	
✓	
	✓
	✓
	✓
	✓

**Conductive hearing loss**

Know the common causes
Be aware of the principles of hearing tests at various ages
Know the principles of hearing testing at various ages and of management of hearing impairment
Begin to have experience of hearing tests at various ages
Be able to recognise when further assessment is required and how to assess it

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	
	✓

**Sensorineural hearing loss**

Know about the common causes
Be able to recognise when further assessment is required and how to access it, including investigations that may be appropriate
Be aware of the principles of management, including cochlear implantation and educational approaches to sensorineural hearing loss
Experience how to communicate with a child with sensorineural hearing loss
Be able to recognise syndromes and situations where sensorineural hearing loss is likely to occur
Be aware of the assessment of sensorineural hearing loss
Be able to communicate with the child with sensorineural hearing loss

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
	✓
✓	
	✓
	✓
	✓

**Weakness**

Know the possible causes
Know the possible causes of weakness and patterns of presentation
Be able to take a relevant history
Be able to elicit and interpret appropriate signs

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
	✓
	✓

**Abnormal head size and shape**

Be aware of the common causes of hydrocephalus, macrocephaly and microcephaly
Know how to recognise abnormal head shapes and to differentiate between serious and non serious causes
Know the common causes of hydrocephalus, macrocephaly and microcephaly
Be able to plot and interpret a head growth chart
Be able to reach a likely diagnosis and initiate investigations for abnormal head growth
Know about the insertion and ongoing management of ventricular-peritoneal shunts

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
	✓
	✓
	✓
	✓

**Headache**

Be aware of the possible biological, psychological and social factors that can contribute to headache
Know the possible biological, psychological and social factors that can contribute to headache
Be able to recognise when headache may indicate serious illness
Be able to recognise when headache may indicate serious illness and arrange prompt investigations
Be able to initiate appropriate investigations and treatment

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
✓	
	✓
	✓

**Problems of language, vision and hearing**

Be aware of the principles of testing
Know about the principles of testing
Understand the common causes of sensory impairment, the various tests available and when they are appropriate
Recognise when to refer for further assessment
Be able to identify infants and children at risk of language, hearing or visual impairment
Be able to recognise when sensory impairment may contribute to developmental difficulties and to refer appropriately for further assessment

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
	✓
✓	
	✓
	✓

**Specific learning difficulties**

Be aware how specific learning difficulties present at school
Understand how specific learning difficulties present at school
Recognise when to refer for further assessment
Be able to identify when specific learning difficulties might be present and how to refer appropriately for self-assessment

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
✓	
	✓

**Ophthalmology****GENERAL COMPETENCES**

Be able to examine the eye and recognise those abnormalities which require urgent referral or treatment
Be able to take a relevant history for a child with suspected visual impairment
Be able to use an ophthalmoscope to recognise an abnormal fundus and lens opacity
Know the principles of visual acuity testing at various ages
Be able to test for colour vision
Understand the microbiology and treatments for common eye infections including orbital cellulitis
Know about the eye manifestations of common genetic and systemic diseases
Recognise and interpret abnormal eye movements
Know about support at school and other resources for children with visual impairments
Be able to undertake visual acuity testing at various ages

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
✓	
	✓

**Patient presenting with a red eye**

Know the common causes of red eye
Be able to identify children who need referral
Be able to initiate investigations and manage appropriately

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	

**Patient presenting with a possible squint**

Know the causes of acute onset and the congenital causes of a squint
Be able to recognise abnormal alignment of the eyes and examine corneal reflexes
Know how to refer appropriately

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓

**Ptosis**

Know about the congenital and acquired causes of ptosis
Know about the Tensilon test
Know how to undertake the Tensilon test

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓

**Proptosis**

Know the common causes of proptosis
Be able to initiate appropriate investigations
Be able to examine for signs of relevant systemic disease

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	

**Abnormal movement**

Know the ocular and neurological causes of benign abnormal eye movements
Know about the implications of nystagmus and refer appropriately for further visual assessment
Be able to interpret clinical findings correctly
Be able to undertake a full neurological examination where appropriate

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	

### Abnormal fundus

Know the normal appearance of the retina
Know the value of fundal examination in suspected child abuse cases and certain developmental syndromes
Be able to identify papilloedema, abnormal vessels and pigmentation
Be able to identify haemorrhage

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓
✓	
✓	

### Visual impairment

Know the common and preventable causes of visual impairment
Know about the investigations that might be used to find a cause
Know about the specific developmental patterns that occur in the child with visual impairment
Know about educational approaches to the child with visual impairment
Be able to recognise congenital cataract and refer urgently for further management
Have experience of assessment of the child with suspected visual impairment

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓
	✓
	✓
	✓

**Palliative Care****GENERAL COMPETENCES**

	Level 1 (ST1-3)	Level 2 (ST4-5)
Be familiar with local and national guidelines on withdrawing and withholding treatment	✓	
Be familiar with guidelines on the management of sudden infant death	✓	
Be aware of legal and ethical issues relating to withdrawing life support	✓	
Recognise factors which determine when care of a patient becomes palliative	✓	
Know when the importance of seeking advice when treatment may not be in the best interests of a child	✓	
Know about appropriate therapeutic intervention in symptom control	✓	
Be aware of the ethical issues in therapeutic intervention in children with life-limiting conditions	✓	
Know about local opportunities for respite care, including hospice availability	✓	
Know the tests for brain stem death	✓	
Recognise loss and grief and their effects on the health and well-being of children, families and professionals	✓	
Be aware of local bereavement support services	✓	
Recognise the skills and experience of other professionals, acknowledge personal needs for support and the needs of other professionals involved in the care of the dying child for support networks	✓	
Understand the need for respect of the wishes of the child or your person particularly when these are different from those of the family and health professionals	✓	
Know about guidelines on the management of sudden infant death, including the RCPCH Kennedy report		✓
Know about the broad definition of palliative care in childhood		✓
Recognise factors which determine when care of a patient becomes palliative		✓

**Respiratory Medicine with Ear, Nose and Throat****GENERAL COMPETENCES**

Have the knowledge and skills to be able to assess and initiate management of patients presenting with respiratory problems in acute and outpatient settings
Have the knowledge and understanding of factors relating to long term management of chronic respiratory problems
Understand the life threatening nature of some of these conditions and when to call for help
Recognise factors which suggest underlying or serious pathology

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓
	✓

**ACUTE PRESENTATIONS****Sore throat and/or mouth**

Know the causes of these complaints
Know appropriate therapies
Be able to manage these conditions
Recognise features in the presentation which suggest serious pathology

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
	✓

**Nose bleeds**

Know the common causes of nose bleeds
Recognise those with underlying pathology

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
	✓

**Snoring and obstructive sleep apnoea**

Know the causes of snoring
Be aware of complications of this presentation
Understand the indications for sleep studies
Recognise when referral to an ENT surgeon is appropriate
Be able to refer appropriately to an ENT surgeon

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓

**Earache**

Know the common causes and complications
Know the risk factors for otitis media with effusion
Understand the vulnerability of children with cleft palate
Recognise an abnormal ear drum
Recognise when to treat with antibiotics
Recognise when to refer to audiology specialists or an ENT surgeon
Be able to manage this condition
Be able to treat with antibiotics where appropriate

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓

**Acute stridor**

Understand the potentially life-threatening nature of this condition
Know about allergic and infective causes e.g. epiglottitis, laryngotracheitis, retropharyngeal abscess, and foreign body
Recognise when to request help from a senior colleague
Recognise children with existing chronic upper airway problems
Be able to manage this condition

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓

**Acute severe asthma**

Be familiar with the British Thoracic Society guidelines for management
Be able to assess the severity of an asthma attack
Be able to institute appropriate emergency treatment
Recognise when more senior help is needed
Be able to lead treatment of severe asthma and review ongoing treatment before discharge

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
	✓

**Lower respiratory tract infection (including pneumonia and bronchiolitis)**

Be familiar with the causes of respiratory tract infections
Know appropriate therapies
Be familiar with indicators of severity
Know the causes of respiratory tract infections
Know indicators of severity
Be able to initiate appropriate therapies
Be able to recognise patients requiring intensive care
Be able to recognise complications e.g. empyema
Be able to manage these infections
Be able to recognise complications e.g. empyema and manage appropriately

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
	✓
	✓
✓	
✓	
✓	
	✓
	✓

**Respiratory failure**

Know the indications for ventilation
Be aware of the agreed resuscitation plans for individual patients
Initiate urgent assessment and treatment including assisted ventilation
Liaise with more senior paediatricians, anaesthetists and intensivists when appropriate

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓
	✓

**OUTPATIENT PRESENTATIONS****Cervical lymphadenopathy**

Know the causes of cervical lymphadenopathy
Recognise when investigation and surgical intervention is needed

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	

**Chronic stridor**

Know the causes of chronic stridor
Recognise when and how to investigate

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	

**Asthma**

Be familiar with the British Thoracic Society guidelines for management of asthma
Know about the patterns of asthma and contributing factors
Know about the complications of long-term use of medications for asthma
Institute age-appropriate individualised management plan for asthma
Teach children how to use a peak flow meter and diary
Teach and assess inhaler technique
Be able to modify an asthma management plan appropriately
Be aware of what needs to be done to ensure the child has access to emergency treatment at school and other settings

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
✓	
✓	
✓	
✓	
	✓
	✓

**Recurrent or chronic chestiness**

Know the respiratory and non-respiratory causes, including chronic aspiration, of recurrent or chronic chestiness
Know about predisposing conditions such as neuromuscular and skeletal disorders
Know about predisposing conditions such as neuromuscular and skeletal disorders and immunodeficiency
Be aware of the role of bronchoscopy, pH studies and video-fluoroscopy
Know about the role of bronchoscopy, pH studies and video-fluoroscopy
Recognise features in the presentation which suggest serious or unusual pathology e.g. atypical presentations of cystic fibrosis
Know how to perform and interpret basic lung function tests

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	
	✓
	✓
	✓

**Cystic fibrosis**

Know and understand the pathophysiology and natural history of cystic fibrosis
Understand the principles of treatment
Understand the diagnostic tests available
Work with a multi-disciplinary team, particularly physiotherapy and dieticians

Level 1 (ST1-3)	Level 2 (ST4-5)
✓	
✓	
	✓
✓	



**Safeguarding****ACUTE PRESENTATIONS**

Physical Injury
Know how to assess in relation to history, developmental stage and ability
Know appropriate investigations when child abuse is a possibility e.g. skeletal survey when appropriate
Be aware of the impossibility of dating bruising
Be able to initiate appropriate investigations
Be able to recognise new and old fractures on an X-ray
Be able to initiate a multi-disciplinary investigation with a more experienced colleague

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓
	✓
	✓
	✓

**Head Injury**

Know about acute and chronic presentations of subdural haemorrhage
Know that this may cause symptoms mistaken as having a metabolic or infective cause in an infant
Know the appropriate investigations and involvement of other disciplines e.g. ophthalmology, radiology
Know that retinal haemorrhages may be difficult to detect
Know that, when there is suspicion of non-accidental head injury, an ophthalmologist should be involved
Be able to perform fundoscopy and recognise retinal haemorrhage
Be able to initiate emergency management and urgent investigations
Be able to co-operate in multi-disciplinary and multi-agency working

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓
	✓
	✓
	✓
	✓

**Vaginal or Rectal Bleeding**

Know that sexual abuse forms part of the differential diagnosis
Know when an expert genital examination is needed and the role of colposcopy as part of that
Know about the risk of acquired sexually transmitted infections
Be able to refer to a colleague experienced in examination for sexual abuse

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓
	✓

**Self-harm**

Recognise this as an expression of distress, acute or long-term
Recognise repeated self-harm as indicating serious emotional distress
Be able to refer to the CAMHS team

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓

**Apnoeic episodes as an infant**

Be aware of this as a possible presentation of imposed airway obstruction and know the indicators that this may be the case
Understand the life-threatening nature of imposed airway obstruction
Refer promptly to an experienced colleague for help

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓

**OUTPATIENT PRESENTATIONS****Faltering growth**

Be aware of the high incidence of a non-organic cause
Be able to instigate appropriate investigations
Be able to institute multi-agency involvement with the help of an experienced colleague

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓

**Soiling/Wetting**

Know that this can be a presentation of emotional abuse or neglect sometimes in association with other forms of abuse, including sexual abuse
Know the other physical, psychological or maturational problems leading to soiling and wetting
Be able, with appropriate history and observations, to elucidate factors within the child's life that may be causing these problems

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓

**Vaginal Discharge**

Know that this may be a presentation of sexual abuse
Know when an expert genital examination is needed and the role of colposcopy as part of that
Know about the many other causes of vaginal discharge
Know when to consult with a senior colleague experienced in sexual abuse when there is any question of this

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓
	✓

**Behavioural Change**

Know the association of this with abuse, including emotional abuse, neglect and sexual abuse
Be able to take a history to elucidate social and emotional factors that maybe involved
Be able to seek the help of a senior colleague

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓

**Repeated or bizarre physical symptoms**

Know the possible signs of factitious and induced illness
Know how to recognise the over-anxious parent
Know the pathways to gather medical, educational and social information on the child
Be able to refer to a senior experienced colleague

Level 1 (ST1-3)	Level 2 (ST4-5)
	✓
	✓
	✓
	✓

## **Patient Safety**

Patient safety is embedded throughout the competency framework and included within assessments. Patient safety is an inherent part of the role of the paediatrician in ensuring the health and well-being of children, their parents, families and carers, to themselves and the healthcare team around them. Patient safety can be found more explicitly under the sections on; safeguarding, procedures, prescribing, carrying out audits and standard setting as well as probity.

## **Medical Leadership Framework**

The Medical Leadership Framework is embedded throughout the competency framework and its associated assessment system. The assessment strategy allows for the elements of Medical Leadership Framework to be assessed by using the existing tools. Whilst many of the competences can be found under the assessment standards 29-33, competences can be found within other assessment standard. The mapping document is available on the college website. The Medical Leadership Framework can be addressed within many learning opportunities e.g. involvement in rota management, involvement in departmental inductions, guideline development, audits that lead to implementation and the evaluation of change, supervision and supporting of colleagues, attending and contributing to meetings.

## **SECTION 5 - ASSESSMENTS**

## About Assessments

*Reassuring the individual, the profession and the public, as well as employers and regulatory bodies that a trainee is fit to practise.*

The educational purposes for the assessment system are:

- To support learning and progression across the curriculum and
- To assess the level of competence achieved at different stages in that progression

The content of the assessment system grew from the curriculum and the learning objectives it set out. These can be generic, specialty-specific and/or specific to sub-specialties. For example all trainees will be expected to engage their patients effectively in consultations, whilst paediatric trainees have a particular responsibility to be able to work effectively in triadic consultations. The assessment system therefore consists of a range of instruments designed to support learning and assessment in these different areas of work in paediatrics, which, in turn were mapped to Good Medical Practice and then the GMC domains.

The table of categories of assessments developed by the AoMRC, PMETB and MMC (developing and maintaining an assessment system – A PMETB guide to good practice January 2007 Appendix 3 p.42) proved useful in informing the thinking about the initial development of a range of standards and instruments derived from and reflecting the different areas of content in the curriculum.

The introduction of workplace based assessments in 2007 following the selection of assessment methods to meet the blueprint devised in 2005 provided a structured support system for paediatric trainees. Although well established in training, workplace based assessments (WPBAs) are often perceived as lacking real value by trainees and trainers alike. Their role is often characterised as time-intensive tick box exercises. Evaluation of over 14000 WBAs undertaken in paediatric training in 2010 confirmed that WPBAs are non-discriminatory in terms of performance. The minimum numbers possible were undertaken by most trainees and they tended to cluster in the month or so before ARCP documentation was due. The RCPCH Assessment Methodology Working Group (AMWG) was set up in April 2011 to review and report on practice and function of WPBAs offered by the College and make recommendations for development where applicable. The working group took into account the GMC advisory document “Learning and Assessing in the Clinical Environment” ([http://www.gmc-uk.org/Learning\\_and\\_assessment\\_in\\_the\\_clinical\\_environment.pdf\\_45877621.pdf](http://www.gmc-uk.org/Learning_and_assessment_in_the_clinical_environment.pdf_45877621.pdf)).

The outcome of the review proposed that the majority of WPBA’s should be undertaken as Supervised Learning Events (SLE). These are largely formative in nature, where judgements about performance will lead to constructive feedback. Trainees and educational supervisors will be expected to actively address learning outcomes identified and actions taken as a result should be recorded in the ePortfolio.

Of the current tools, only DOPS would be used as a summative Assessment of Performance (AoP). Trainees are expected to have a single DOPS for each of a list of obligatory procedures. In order that trainees are able to demonstrate on-going competence in these procedures, the ePortfolio skills log is to be used to allow for logging of procedures carried out.

The assessment system should be used to reassure the trainee and provide the trainee with feedback about their own knowledge, skills and attitudes and the opportunity to show progression and development through their training programme. In order to achieve this, all areas of the training curriculum need to be sampled and assessed in the most appropriate ways, according to the nature of the knowledge or skill being assessed. The purpose of the individual assessment instruments within the system will therefore vary.

## Table of Assessments August 2016

	LEVEL 1			LEVEL 2		LEVEL 3		
	ST1	ST2	(ST3) <sup>[1]</sup>	ST4	(ST5) <sup>[1]</sup>	ST6	ST7	(ST8) <sup>[1]</sup>
Supervised Learning Events (SLE)								
Mini CEX & CbD Including <sup>[6]</sup> :	No requirement for a minimum total. Aim for quality not just quantity. Useful SLEs will challenge, act as a stimulus and mechanism for reflection, uncover learning needs and provide an opportunity for developmental feedback. <sup>[2][3][4][12]</sup>							
ACAT (CEX/CbD)	Optional <sup>[5]</sup>			1 <sup>[note7]</sup>		Optional <sup>[5]</sup>		
HAT (CEX)	1			1 <sup>[note7]</sup>	1 <sup>[note7]</sup>	Optional <sup>[5]</sup>		
LEADER (CbD)	Optional <sup>[5]</sup>			1 <sup>[note7]</sup>	1 <sup>[note7]</sup>	1 <sup>[note7]</sup>	1 <sup>[note7]</sup>	1 <sup>[note7]</sup>
Safeguarding CbD	1	1	1	1	1	1	1	1
DOC	Optional <sup>[5]</sup>			5 <sup>[note7]</sup>		5 <sup>[note7]</sup>		
Assessment of Performance (AoP)								
DOPS <sup>[12]</sup>	A minimum of 1 satisfactory AoP for the compulsory procedures <sup>[8][9]</sup>			1 satisfactory AoP for the compulsory procedures <sup>[8][9]</sup>		A minimum of 1 satisfactory AoP for the compulsory procedures within the relevant sub-specialty curriculum <sup>[8][9]</sup>		
Paed CCF				1 <sup>[note13]</sup>		1 <sup>[note13]</sup>		
ePaed MSF	1	1	1	1	1	1	1	1
Other evidence required for ARCP progression								
Evidence	Life Support <sup>[10]</sup> Safeguarding <sup>[11]</sup>			Safeguarding <sup>[11]</sup>		START		
MRCPCH Examinations								
MRCPCH CBT exams (FOP, TAS, AKP)	1-2 CBT exams (desirable)	2 out of 3 CBT exams (essential)	All 3 CBT exams (essential)					
MRCPCH Clinical Exam			Essential					
Trainer's Report								
Trainer's Report (incl. ePortfolio)	1	1	1	1	1	1	1	1

**IMPORTANT** - Please read the explanatory notes accompanying this table (notes [1] to [13])

# Table of Assessments August 2016

## NOTES

1. The statutory minimum training times are 24 months at level 1, 12 months at level 2 and 24 months at level 3 (all WTE); thus, training years in parentheses (ST3), (ST5) and (ST8) might not be undertaken by all trainees, depending upon an individual's progress.

## SUPERVISED LEARNING EVENTS (SLE)

2. The purpose of SLEs is as a means of engaging in formative learning; therefore, a trainee who presents evidence of SLEs that cover only a restricted area of the curriculum runs the risk of being judged as having poor strategic learning skills.
3. Trainees should use SLEs to demonstrate that they have engaged in formative feedback; they should record any learning objectives that arise in their PDP and show evidence that these objectives have subsequently been achieved.
4. There are no minimum numbers of SLEs (other than the mandatory assessments described in note [7]). Trainees and supervisors should aim for quality not quantity; a useful SLE will stretch the trainee, act as a stimulus and mechanism for reflection, uncover learning needs and provide an opportunity for the trainee to receive developmental feedback. Trainees do not need to achieve a prescribed ratio of mini CEX to CbD assessments; it is anticipated that more junior trainees might undertake relatively more mini-CEX and more senior trainees undertake more CbD, reflecting the increasing complexity of decision-making, etc.
5. Trainees are also encouraged to undertake the assessments indicated as optional.
6. The numbers of SLEs given for ACAT, HAT, LEADER and Safeguarding CbD are minimum requirements; senior trainees in particular should bear in mind that each of the SLEs is designed for formative assessment of different aspects of the curriculum and more than this minimum number of some types of SLE might be required, depending upon the specific requirements and clinical context of a subspecialty. Trainees are therefore advised to consult their relevant subspecialty CSAC curriculum, in case there are additional specified assessment requirements.
7. At least one of each of these SLEs must be assessed by a senior supervisory clinician (e.g. Consultant or senior SASG/Specialty Doctor) – i.e. ACAT and HAT during level 2, LEADER during level 2 and level 3 and at least one of the five DOC during level 2 and level 3.

## ASSESSMENT OF PERFORMANCE (AoP)

8. The compulsory procedural skills are listed on the RCPCH website:  
<http://www.rcpch.ac.uk/training-examinations-professional-development/quality-training/work-based-assessments-asset/assess-0>
9. The e-Portfolio skills log should be used to demonstrate development and continued competence.

## ADDITIONAL REQUIREMENTS

10. Trainees must also complete accredited neonatal and paediatric life support training during Level 1 training (NLS, EPALS, APLS or equiv).
11. Trainees must achieve the level 1 and 2 Intercollegiate Safeguarding Competences by the end of ST3, the majority of Level 3 competences by the end of ST5 and all Level 3 competences along with the additional paediatrician competences by the end of ST8.
12. Trainees can complete up to 25% of assessments during simulation but they are required to complete a non-simulated assessment for each of the mandatory DOPS.
13. The Paed CCF can be used as an additional tool if required.

**The assessment system consists of**

i) MRCPCH examination

- The MRCPCH consists of 3 computer based testing (CBT) examinations and a clinical examination. Completion of all parts will be essential for the award of MRCPCH and profession in training beyond Level 1
- The MRCPCH CBT examination has 3 parts
  - Foundation of Practice
  - Theory and Science
  - Applied Knowledge and Practice
- Foundation of practice focuses on the knowledge, understanding and clinical decision making ability of trainee with 6 months paediatric experience. The format of the exam has extended matching questions, best of five and multiple true/false questions.
- Theory and Science has an emphasis on the basic scientific physiological and pharmacological principles upon which clinical practice is based. The format of the exam has extended matching questions, best of five and multiple true/false questions.
- Applied and Knowledge and Practice consists of 2 exams that assess the knowledge, understanding, clinical decision making and principles of evidence based practice in all areas of paediatrics and child health. Both exams consist of extended matching questions, best of five and n from many.
- MRCPCH Clinical Examination is a 10 stations circuit that includes a history taking station, 2 communication stations, 6 clinical examination stations and 1 video station. This clinical examination aims to assess the trainee's skills and ability in:
  - History taking and management planning
  - Clinical examination and detection of the presence of physical signs
  - Diagnosis and prioritisation of problems
  - Emergency management
  - Child development
  - Communication with child and parent in consultations
  - Clinical practice in an ethical framework

ii) Supervised Learning Events

a. MiniCex (Mini Clinical Evaluation Exercise)

The instrument initially developed for use in Foundation was modified to map to paediatric assessment standards. This instrument enables us to assess trainees in real patient encounters

b. CbD (Case Based Discussion)

The instrument initially developed for use in Foundation was modified to map to paediatric assessment standards. This instrument is particularly valuable for the assessment it offers to a trainee's clinical reasoning skills and the ability to bring an analytical approach to diagnosis and management of paediatric conditions.



c. ACAT (Acute Care Assessment Tool)

This tool has been used in adult medical care settings, and the tool has been adapted for paediatric use. Professional competence depends on the integration of multiple skills in a complex and challenging environment. These complexities of practice are currently assessed only as part of the overall subjective global judgements made about trainees by clinical and educational supervisors. These judgements contribute to the annual trainers report but rarely contribute to decisions about training progression and are rarely the subject of formal feedback, although MSF may provide some feedback. The ACAT is designed to assess and facilitate feedback on a doctor's performance during their practice on acute admissions, and should be conducted as a SLE and will count towards your Mini-CEX and CbD target numbers.

d. HAT (Handover Assessment Tool)

Handover is a core skill that has been identified as not easily assessed by current tools. This tool has been developed specifically for this purpose. The trainee will be assessed on the presentation of up to 3 patients, giving the working diagnosis and headlining the current problem/issues, the relevant background in relation to current illness and outlines other major or significant co-morbidities, a succinct assessment of the problem and clearly outlining what needs to be done and the time frame in which it should be done. HAT should be considered a SLE and will count towards your Mini-CEX and CbD target numbers

e. LEADER

The leader case based discussion (CBD) is based on the competencies described in this Medical Leadership Framework and provides a structure for the discussion. It encourages trainees to demonstrate a practical, work-based understanding of the principles and practice of medical leadership

f. DOC (Discussion of Correspondence )

DOC replaced SAIL (Sheffield Assessment Instrument for Letters). This instrument assesses a trainee's competence in written communication in everyday practice over time.

g. ePaed MSF (multisource feedback)

The Sheffield Peer Review Assessment Tool, originally validated for use in paediatrics (Archer 2005), has been adapted to each level of training and is now available electronically (ePaed MSF). This instrument is invaluable for assessing a trainee's performance over time, in everyday practice.

h. Paed CCF

(Originally SHEFFPAT) has been developed and validated for paediatrics and seeks the views of parents and guardians about the care of their child.

iii) Assessment of Performance

a. DOPs

Specific instruments had not been developed for paediatrics but those developed for Foundation were considered appropriate to assess most practical procedures and a range of practical procedures have been identified for assessment

iv) **START**

START (previously ST7A) is an innovation in assessment for the trainee approaching transition to consultant. Approved by the GMC, START is an assessment of clinical decision making on the basis of knowledge and the ability to communicate with teams and family members. The multi-station circuit assessment assesses competencies acquired in level 3 training (ST6 - ST8). START is designed for trainees in general paediatrics, community paediatrics and our specialties. Trainees have feedback that START has allowed them to focus on learning objectives for consultant status.

v) **Portfolio Review**

Trainees are expected to maintain evidence of their progression in a portfolio. This will be reviewed by their educational supervisor prior to the completion of a structured report and will contribute to the overall assessment. The portfolio, although not an assessment instrument itself will underpin learning from the curriculum and act as a platform for trainers and trainees to manage various elements of professional development, demonstrate curriculum coverage and assessments required. The portfolio will contain

- Educational supervision documentation
- Professional development plan
- Reflective entries
- Skills log
- Record of training events
- Assessment reports
- Examination outcomes
- Trainer reports
- Teaching resources
- Audits
- Clinical governance
- Presentations

***Trainer's Report***

The trainer's report is a compulsory requirement for the trainee's submission to the Annual Review of Competencies Panel (ARCP) to inform the annual appraisal. All supervisors will be required to complete a trainer's report annually and/or at the end of a training placement. This is viewed as a component of supreme importance that should triangulate observations of the trainee in practice, workplace-based assessments, portfolio review, feedback from the START Assessment and progress with examinations. It will facilitate feedback on progress and assist with defining further development goals. Where a training year is split between placements, and there are 2 trainer reports, then evidence from workplace assessments should be spread across the 2 placements.

## **Annual Review of Competency Progression (ARCP)**

### **Purpose**

The ARCP is a formal process that looks at the evidence gathered by the trainee that relates to their achievement of the competencies laid out in the curriculum and their progression. It will allow all stakeholders to be assured that the curriculum is being covered and its assessment strategy is being achieved at a suitable rate of progression and that the experiences of the trainee have allowed for the acquisition of the competences. It also allows for a formal summary of the trainee's progression to be recorded leading to the final ARCP that confirms the attainment of the complete curriculum and assessments, supporting the PG Dean in recommending to the RCPCH the award of CCT.

### **Role of Trainee**

The trainee must ensure that all relevant paperwork is provided on time and that their e-portfolio is kept up to date with relevant records of training, reflective notes, workplace-based assessments, exam results and their own teaching and training resources.

### **Role of Educational Supervisor**

The educational supervisor must supply a trainer's report that details how the trainee has progressed over the year and areas of the curriculum and assessment that has been achieved, relating it to the development plan of the trainee and the college guidance of suitable evidence of progression by triangulating all the evidence provided by the trainee e.g. completion of MRCPCH, workplace based assessments, e-portfolio contributions (teaching, reflection, audits, quality improvement) and the START Assessment feedback.

### **Role of the ARCP panel**

The ARCP panel reviews all the evidence provided to ensure the trainee is ready to progress. If the trainee is successful i.e. Outcome 1 then the Panel must complete the relevant documents to ensure records of training are held to support the trainees' final CCT application.

The panel will discuss any additional training needs of an individual trainee with the Postgraduate Dean to allow for successful progression, feedback to the educational supervisor on the quality of the trainer's report and gain feedback on the training that is being delivered.

### **Role of External Advisor**

To sample a number of ARCP decisions to ensure consistency in approach and decision-making and provide a report to the Head of School and the College. To highlight to the panel and discrepancies and be a source of advice if there are concerns or clarification needed.

### **Appeals**

Appeals against assessments and ARCPs must follow local procedures within the School and the Deanery.

For further advice see the current edition of the Gold Guide <http://www.copmed.org.uk/publications/the-gold-guide.html>

## Detail of assessments at each level of training

### Assessing Level 1 competences

Throughout Level 1 training, trainees will need to acquire the basic scientific knowledge associated with paediatrics and child health. Application of this knowledge will be tested in many of the workplace assessments but the full breadth of this knowledge will be tested in the MRCPCH examination, particularly in the written examinations.

Although trainees leaving Foundation training will have a wide range of generic skills related to the care of adults, few will have skills related to the care of children. This means that trainees entering paediatric training may have had little or no experience of caring for children or of the specialty. Basic skills, which are well developed in adult specialties at the same stage, are absent. For example, trainees would not be able to undertake a clinical examination and interpret the findings, taking into consideration what would be appropriate for the child's age and development. Assessment of these competences will begin in the workplace with MiniCeX. These competences will also be tested in the clinical MRCPCH examination.

The ability to undertake even basic practical procedures in children will be extremely limited, even where trainees are competent to undertake technical procedures in adults. These will be assessed in the workplace using DOPS.

They will need to learn how to undertake three-way consultations, which are fundamental to paediatric practice. This will be assessed in the workplace using Paed MiniCeX. These competences will also be tested in the clinical MRCPCH examination.

They will have rudimentary or no knowledge of normal laboratory values and drug dosages for children. These are competences that are taken for granted in adult practice at this stage of training, but will need to be developed for paediatric practice. These will be tested in MRCPCH, particularly in the written part of MRCPCH Part 2.

Although trainees will be competent at acute resuscitation in adults, they will need to acquire these skills for paediatric practice. These skills will be tested in the formal assessment processes associated with a recognised life support or approved simulation course, such as the Acute Paediatric Life Support and Neonatal Life Support courses.

For safeguarding completed a level 2 (ICD) safeguarding training and completed a safeguarding specific CbD that satisfies achievement of the General Paediatric curriculum competences and the level 1 and 2 intercollegiate safeguarding competences.

*Satisfactory completion of level 1 training requires*

- MRCPCH. Trainees cannot progress from beyond Level 1 (ST3) without passing all MRCPCH CBT examinations and the MRCPCH clinical. Trainees cannot progress from ST2 – ST3 without passing 2 of the 3 CBT examinations
- 12-20 SLEs covering:
  - A minimum of the 6 “core acute conditions” to be covered using miniCEX and CbD assessments (respiratory, gastroenteritis, convulsions, fever, rash, abdominal pain)
  - A minimum of one safeguarding CbD per training year
- 1 x satisfactory DOPS assessment to cover each compulsory procedure (bag, valve and mask ventilation, capillary blood sampling, venesection, peripheral venous cannulation, lumbar puncture, non-invasive blood pressure measurement, tracheal intubation of the newborn and preterm (28-34 weeks) babies and umbilical venous cannulation) and skills log completed for the remaining practical procedures in the level 1 framework
- Accredited paediatric and neonatal life support training
- Minimum of 1 satisfactory ePaed MSF per year to cover neonatal and general paediatric practice within level 1
- A portfolio which is kept up to date
- An annual trainers report supporting the evidence presented to the ARCP that satisfactory progress has been made for the trainee to progress

**Failure to meet any one of these criteria will raise serious concerns about the trainee’s ability to proceed to the next level of training. Where additional training is required, the content of such training and overall duration of the extension to training will be decided at the ARCP and will be at the discretion of the Postgraduate Dean (see Gold Guide).**

## Assessing Level 2 competences

At this stage, trainees are expected to apply the knowledge they have acquired and will need to have opportunities to take on responsibility. They will be expected to develop clinical reasoning and decision-making. Case- based Discussion is particularly suitable for assessing these skills hence the emphasis on this form of assessment at this stage of training. Trainees will learn further skills by taking on a more senior clinical role and by being involved in wider professional roles , including teaching, clinical governance and multi-professional working. DOC (and Paed CCF, if used) will guide feedback and reflection as the trainee develops their communication skills with a range of stakeholders and their longer term management of conditions in outpatient clinics. Trainees at this stage should be learning through feedback and reflection, learning through teaching others and learning through assessment itself. The use of the portfolio will become particularly important for recording reflection on clinical governance activities, critical incident reporting, report-writing and teaching activities.

### *Completion of level 2 training requires*

- 12-20 SLEs covering:
  - MiniCEX and CbD assessments to cover work in general, neonatal and community paediatrics, on wards and in clinic settings (6-10 of each) that include
    - A minimum of one Safeguarding CbD per training year
    - A minimum of one HAT per training year
    - A minimum of one ACAT across Level 2 training
    - A minimum of one LEADER per training year
- Minimum of 5 satisfactory DOC assessments across Level 2 training
- Minimum of 1 satisfactory ePaed MSF per year to cover feedback from neonatal, community and general paediatric posts
- Achievement of the General Paediatric curriculum safeguarding competences and the majority of the Level 3 Intercollegiate safeguarding competences
- A portfolio which is kept up to date
- An annual trainers report supporting the evidence presented to the ARCP that satisfactory progress has been made for the trainee to progress
- Where it is felt necessary, a satisfactory Paed CCF

**Failure to meet any one of these criteria will raise serious concerns about the trainee's ability to proceed to the next level of training. Where additional training is required, the content of such training and overall duration of the extension to training will be decided at the ARCP and will be at the discretion of the Postgraduate Dean (see Gold Guide).**

### Assessing Level 3 competences

At this stage, the trainee is learning to work independently within a team and developing further many of the non-clinical competences which will, as at level 2, be assessed through use of the portfolio and LEADER. They will also be developing expert clinical reasoning, which again makes CbD particularly valuable as an assessment method at this stage. Throughout training, communication skills are emphasised and, at this stage, these can be assessed, from the perspective of parents, through the use of Paed CCF, if thought necessary. The START assessment, approved in 2012 is an assessment of clinical decision making on the basis of knowledge and the ability to communicate with team and family. The multi-station circuit assessment assesses competencies acquired in level 3 training (ST6 - ST8) and focuses on learning objectives for consultant status.

#### *Completion of level 3 training requires*

- 12-20 SLEs covering:
- 4 – 6 MiniCEX and 8 – 12 CbD assessments to include core conditions required by specialty/subspecialty and
  - A minimum of one Safeguarding CbD per training year
  - A minimum of one LEADER CbD per training year
- Minimum of 5 satisfactory DOC assessments across Level 3 training
- Minimum of 1 satisfactory ePaed MSF per year to cover feedback from a range of posts
- Satisfactory DOPS to cover each practical procedure in the level 3 framework **if relevant** for subspecialty
- Achievement of the Intercollegiate Level 3 safeguarding competences and the additional competences for paediatricians
- Completion of START Assessment and where necessary evidence of implementing targeted feedback
- A portfolio which is kept up to date
- Where it is felt necessary, a satisfactory Paed CCF
- An annual trainers report supporting the evidence presented to the ARCP that satisfactory progress has been made for the trainee to progress

**Failure to meet any one of these criteria will raise serious concerns about the award of a CCT. Where additional training is required, the content of such training and overall duration of the extension to training will be decided at the ARCP and will be at the discretion of the Postgraduate Dean (see Gold Guide).**

## Assessment Standards for Levels 1, 2 and 3

The trainee will demonstrate:

GMC Framework	Standard	Level 1	Level 2	Level 3
Knowledge, skill and performance	1	an understanding of the roles and responsibilities of paediatricians	a commitment in their practice to the roles and responsibilities of paediatricians	a commitment to advocate for the individual child in her/his particular context
Knowledge, skill and performance	2	effective responses to challenge, complexity and stress in paediatrics	increasing credibility and independence in response to challenge and stress in paediatrics	responsibility for an effective response to complex challenges and stress in paediatrics
Knowledge, skill and performance	3	advanced neonatal and paediatric life support skills	leadership skills in advanced neonatal and paediatric life support	effective responses to life-threatening situations and to unpredictability in paediatric clinical situations
Knowledge, skill and performance	4	effective skills in three-way consultation and examination	responsibility for an effective three-way consultation and examination	responsibility for an analytic and focused three-way consultation and examination
Knowledge, skill and performance	5	effective skills in paediatric assessment	responsibility for conducting effective paediatric assessments and interpreting findings appropriately	commitment to focussed and analytic assessments of common and complex clinical problems in paediatrics
Knowledge, skill and performance	6	skills in formulating an appropriate differential diagnosis in paediatrics	improving skills in formulating an appropriate differential diagnosis in paediatrics	effective skills in making a safe decision about the 'most likely' diagnosis in paediatrics
Knowledge, skill and performance	7	effective initial management of ill-health and clinical conditions in paediatrics seeking additional advice and opinion as appropriate <i>(as outlined in the Framework of Competences for Level 1 in Paediatrics)</i>	responsibility for the effective management of common acute and chronic conditions in paediatrics seeking additional advice and opinion as appropriate <i>(as outlined in the Framework of Competences for Level 2 in Paediatrics)</i>	leadership skills in the management of common and complex conditions in general paediatrics and paediatric sub-specialities seeking additional advice and opinion as appropriate <i>(as outlined in the Framework of Competences for Level 3 in General Paediatrics and the Paediatric sub-specialties)</i>
Knowledge, skill and performance	8	knowledge, understanding and recognition of common behavioural, emotional and psychosocial aspects of illness in children and families	effective skills in recognising and responding to behavioural, emotional and psychosocial aspects of illness in children and families	effective skills in ensuring the management of behavioural, emotional and psychosocial aspects of illness in children and families
Knowledge, skill and performance	9	Safe practical skills in paediatrics	effective skills in performing and supervising common practical procedures in paediatrics, ensuring patient safety	expertise in a range of practical procedures in paediatrics specific to general and sub-specialist training
Knowledge, skill and performance	10	clear record-keeping and report-writing	improving skills in written communications for a range of audiences	effective skills in written communications for a range of audiences, for children and their families, colleagues and other organisations
Knowledge, skill and performance	11	reliable responses to investigations in	effective leadership skills in undertaking initial investigations in children, based on	effective collaboration with other specialists in using and interpreting complex



		paediatrics	an understanding of the risks and benefits in each case	investigations undertaken in children
<b>Knowledge, skill and performance</b>	<b>12</b>	knowledge and skills in safe prescribing of common drugs in paediatrics	improving skills in safe prescribing in paediatrics and in advising others appropriately	responsibility for safe prescribing in paediatrics in common and complex situations and for the supervision of others
<b>Knowledge, skill and performance Safety and Quality</b>	<b>13</b>	an understanding of safeguarding and vulnerability in paediatrics	effective skills in the assessment of cases of suspected safeguarding issues and in contributing to their management	effective skills in advising other agencies in safeguarding cases
<b>Knowledge, skill and performance</b>	<b>14</b>	knowledge of the science- base for paediatrics (as outlined in the Framework of Competences for Level 1 in Paediatrics)	sound knowledge of the science- base for paediatrics (as outlined in the Framework of Competences for Level 2 in Paediatrics)	detailed, up-to-date knowledge of the science-base for general paediatrics or a paediatric sub-specialty (as outlined in the Framework of Competences for Level 3 in General Paediatrics and the sub-specialties)
<b>Knowledge, skill and performance</b>	<b>15</b>	knowledge of common and serious paediatric conditions and their management	extended knowledge of common and serious paediatric conditions and their management	detailed knowledge of common and serious paediatric conditions and their management in General Paediatrics or in a Paediatric sub-speciality
<b>Knowledge, skill and performance</b>	<b>16</b>	an understanding of growth, development, health and well-being in paediatrics	effective skills in the assessment and management of children and young people with normal and abnormal growth and development	effective skills in recognising and responding effectively to disordered growth and development of any kind in paediatrics
<b>Knowledge, skill and performance Safety and Quality</b>	<b>17</b>	an understanding of health promotion and public health issues in paediatrics	a commitment to health promotion activities for children and their families	involvement in health promotion activities specific to general paediatrics or a paediatric sub-specialty
<b>Knowledge, skill and performance Safety and Quality</b>	<b>18</b>	an understanding of an evidence-based approach to paediatric practice	development and refinement of evidence-based clinical guidelines in paediatrics	independent thinking to enable them to challenge guidelines and procedures in paediatrics where appropriate
<b>Knowledge, skill and performance Safety and Quality</b>	<b>19</b>	an understanding of clinical governance activities and audit in paediatric practice	participation in clinical governance activities and audit in paediatric practise	an application of risk assessment strategies through involvement in the development, evaluation and implementation of policy and clinical governance activities in paediatric practice
<b>Knowledge, skill and performance Safety and Quality</b>	<b>20</b>	a reflective approach to improvement of professional practice as a paediatrician	a commitment to reflective practice and continuing improvement of practice as a paediatrician	effective skills to maintain and develop knowledge and clinical skills required of a specialist in paediatrics
<b>Knowledge, skill and performance</b>	<b>21</b>	an understanding of equality and diversity in paediatric practice	a commitment to an open-minded approach to equality and diversity in their	responsibility for ensuring an open-minded approach to equality and diversity in the

<b>Communication, partnership and teamwork Maintaining trust</b>			role as a paediatrician	paediatric team
<b>Knowledge, skill and performance</b>	<b>22</b>	knowledge of the law regarding paediatric practice	knowledge of the law regarding death, data protection, confidentiality and consent in paediatrics	detailed knowledge of the law regarding death, data protection, confidentiality and consent in paediatrics
<b>Knowledge, skill and performance Safety and Quality</b>	<b>23</b>	an understanding of effective teaching in paediatrics	skills in effective teaching in paediatrics	a commitment to effective teaching and training of colleagues working in different contexts in the care of children and young people
<b>Knowledge, skill and performance Communication, partnership and teamwork Safety and Quality</b>	<b>24</b>	a positive approach to receiving mentoring and educational supervision	a commitment to providing positive experiences of mentoring and educational supervision	effective skills in the training, supervision and assessment of a wide range of colleagues working in the care of children and young people
<b>Knowledge, skill and performance</b>	<b>25</b>	an understanding of the need for an ethical and rigorous approach to research in paediatrics	an understanding of research methods and methodology and an involvement in research activities and publications	understanding and application of complex methodological approaches in research in paediatrics
<b>Communication, partnership and teamwork Maintaining trust</b>	<b>26</b>	an understanding of effective communication and interpersonal skills with children of all ages	a commitment to effective communication and interpersonal skills with children of all ages	effective strategies to engage children in consultations and in the management of their care
<b>Communication, partnership and teamwork Maintaining trust</b>	<b>27</b>	empathy and sensitivity and skills in engaging the trust of and consent from children and their families	improving skills in building relationships of trust with children and their families	effective skills in conveying and discussing difficult information, including death and bereavement, with young people and their families
<b>Communication, partnership and teamwork Maintaining trust</b>	<b>28</b>	understanding of listening skills and basic skills in giving information and advice to young people and their families	increasing confidence in giving advice to young people and their families	effective skills in giving information and advice to young people and their families in common and complex cases
<b>Communication, partnership and teamwork</b>	<b>29</b>	effective communication and interpersonal skills with colleagues	skills in ensuring effective relationships with and between colleagues	positive and constructive relationships within teams of colleagues from a wide range of professional contexts
<b>Communication, partnership and teamwork</b>	<b>30</b>	professional respect for the contribution of colleagues in a range of roles in paediatric practice	increasing confidence in team-work and the ability to collaborate with a range of external agencies about the needs of children	a commitment to effective multi-agency and multi-disciplinary team-working for the care of children
<b>Communication, partnership and teamwork</b>	<b>31</b>	effective time-management skills	effective leadership and management skills in clinical and non-clinical settings	effective managerial skills in taking on a positive managerial role to support effective service provision
<b>Knowledge, skill and performance</b>	<b>32</b>	effective handover, referral and discharge procedures in paediatrics	effective skills in ensuring handover, referral and discharge procedures in	effective leadership skills in the organisation of paediatric team-working and effective

<b>Safety and Quality Communication, partnership and teamwork</b>			paediatrics	handover
<b>Communication, partnership and teamwork Safety and Quality</b>	<b>33</b>	an understanding of the effects of local, national and international policies on their work and on the health of children	experience and understanding of working within international, national and local legal and health structures and organisations involved in the care of children	effective skills in promoting clinical practice through engagement with local, national and international organisations involved in the care of children
<b>Maintaining trust Safety and Quality</b>	<b>34</b>	ethical personal and professional practice	sound ethical personal and professional practice	exemplary professional and personal conduct so as to act as a role model to others
<b>Maintaining trust</b>	<b>35</b>	reliability and responsibility in ensuring their accessibility to colleagues and patients and their families	continued responsibility for their reliability and accessibility to colleagues, patients and their families	responsibility for ensuring their own reliability and accessibility and that of others in the team
<b>Maintaining trust, Safety and Quality</b>	<b>36</b>	an understanding of the importance of self-awareness and a responsible approach to personal health, stress and well-being	a consistently responsible approach to personal health, stress and well-being	effective skills in ensuring their own responsible approach to personal health, stress and well-being and that of others

**Assessment Blueprint****Assessment Standards: Blueprint Level 1**

Standards	By the end of Level 1 Training, trainees will demonstrate:	FoP	TAS	AKP	Clinical	HAT	LEADER	ACAT	Epaed MSF	CbD	MiniCeX	DOC	DOPs	Portfolio	Logbook	Comment
<b>THE DUTIES OF A DOCTOR</b>																<i>Knowledge, Skills and Performance</i>
1	An understanding of the roles and responsibilities of paediatricians				✓		✓		✓	✓				✓		
<b>GOOD CLINICAL CARE</b>																
2	Effective responses to challenge, complexity and stress in paediatrics				✓	✓	✓		✓	✓	✓			✓		
3	Advanced neonatal and paediatric life support skills												✓		✓	APLS/NLS or equivalent
4	Effective skills in three way examination				✓	✓				✓	✓					
5	Effective skills in paediatric assessment				✓	✓				✓	✓					
6	Skills in formulating an appropriate differential diagnosis in paediatrics			✓	✓	✓			✓	✓	✓					
7	Effective initial management of ill-health and clinical conditions in paediatrics seeking additional advice and opinion as appropriate			✓	✓	✓	✓		✓	✓	✓					
8	Knowledge, understanding and recognition of common, behavioural, emotional and psychosocial aspects of illness in children and families	✓	✓	✓	✓				✓	✓						
9	Safe practical skills in paediatrics								✓				✓	✓	✓	
10	Clear record keeping and report writing						✓		✓	✓		✓			✓	
11	Reliable responses to investigations in paediatrics	✓	✓	✓	✓		✓		✓	✓						
12	Knowledge and skills in safe prescribing of common drugs in paediatrics	✓	✓	✓						✓						
13	An understanding of safeguarding and vulnerability in paediatrics	✓	✓	✓						✓				✓	✓	Complete ICD Level 2 training

Standards	By the end of Level 1 Training, trainees will demonstrate:	FoP	TAS	AKP	Clinical	HAT	LEADER	ACAT	Epaed MSF	CbD	MiniCeX	DOC	DOPs	Portfolio	Logbook		
MAINTAINING GOOD MEDICAL PRACTICE																	Knowledge, Skills and Performance
14	Knowledge of the science base for paediatrics	✓	✓	✓	✓												
15	Knowledge of common and serious paediatric conditions and their management	✓	✓	✓	✓												
16	An understanding of growth, development, health and well-being in paediatrics	✓	✓	✓	✓												
																	Knowledge, Skills and Performance. Safety and Quality
17	An understanding of health promotion and public health issues in paediatrics	✓	✓	✓						✓							
18	An understanding of an evidence-based approach to paediatric practice	✓	✓	✓					✓	✓				✓			
19	An understanding of the clinical governance activities and audit in paediatric practice	✓	✓	✓	✓		✓		✓	✓				✓			
20	A reflective approach to improvement in professional practice as a paediatrician						✓		✓	✓				✓			
21	An understanding of equality and diversity in paediatric practice			✓	✓		✓							✓			
22	Knowledge of the law regarding paediatric practice	✓	✓	✓	✓		✓		✓								
TEACHING, TRAINING, APPRAISING AND ASSESSING																	Knowledge, Skills and Performance. Safety and Quality
23	An understanding of effective teaching in paediatrics				✓		✓		✓					✓			
24	A positive approach to receiving mentoring and educational supervision								✓					✓			
25	An understanding of the need for an ethical and rigorous approach to research in paediatrics	✓	✓	✓													

Standards	By the end of Level 1 Training, trainees will demonstrate:	FoP	TAS	AKP	Clinical	HAT	LEADER	ACAT	Epaed MSF	CbD	MiniCeX	DOC	DOPs	Portfolio	Logbook	Comment
RELATIONSHIPS WITH PATIENTS																
Communication, Partnership and Teamwork. Maintaining Trust																
26	An understanding of effective communication and interpersonal skills with children of all ages				✓		✓		✓	✓	✓	✓	✓	✓		
27	Empathy and sensitivity and skills in engaging the trust of and consent from children and their families				✓		✓		✓		✓					
28	Understanding f listening skills and basic skills in giving advice to young people and their families				✓		✓		✓	✓	✓					
WORKING WITH COLLEAGUES																
Communication, Partnership and Teamwork																
29	Effective communication and interpersonal skills with colleagues					✓	✓		✓		✓	✓				
30	Professional respect for the contribution of colleagues in a range of roles in paediatric practice					✓	✓		✓	✓	✓					
31	Effective time-management skills					✓			✓	✓	✓					
Communication, Partnership and Teamwork. Safety and Quality. Knowledge, Skills and Performance																
32	Effective handover, referral and discharge procedures in paediatrics					✓						✓		✓		
33	An understanding of the local, national and international policies on their work and on the health of children	✓	✓	✓	✓		✓		✓							
PROBITY																
Maintaining Trust. Safety and Quality																
34	Sound ethical personal and professional practice				✓		✓		✓	✓	✓					
35	Reliability and responsibility in ensuring their accessibility to colleagues and patients and their families								✓							
HEALTH																
36	An understanding of the importance of self-awareness and a responsible approach to personal health, stress and well-being								✓					✓		

**Assessment Standards: Blueprint Level 2**

Standards	By the end of Level 2 Training, trainees will demonstrate:	HAT	LEADER	ACAT	Epaed MSF	CbD	MiniCeX	DOC	DOPs	Portfolio	Logbook	Comment
<b>THE DUTIES OF A DOCTOR</b>												<i>Knowledge, Skills and Performance</i>
1	A commitment in their practice to the roles and responsibilities of paediatricians		✓		✓					✓		
<b>GOOD CLINICAL CARE</b>												
2	Increasing confidence, credibility and independence in response to challenge, complexity and stress in paediatrics	✓	✓	✓	✓	✓	✓			✓		
3	Leadership skills in advanced neonatal and paediatric life support skills				✓				✓		✓	Up to date APLS or equivalent
4	Responsibility for effective three way consultation and examination	✓		✓		✓	✓					
5	Responsibility for conducting effective paediatric assessments and interpreting their findings			✓		✓	✓					
6	Improving skills in formulating an appropriate differential diagnosis in paediatrics			✓	✓	✓	✓					
7	Responsibility for the effective management of acute and chronic conditions in paediatrics seeking additional advice and opinion as appropriate			✓	✓	✓	✓					
8	Effective skills in recognizing and responding to behavioural, emotional and psychosocial aspects of illness in children and families				✓	✓						
9	Effective skills in performing and supervising common practical procedures in paediatrics, ensuring patient safety			✓	✓				✓	✓	✓	
10	Improving skills in written communication for a range of audiences	✓			✓	✓		✓			✓	
11	Effective leadership skills in undertaking initial investigations in children, based on an understanding of the risks and benefits in each case				✓	✓						

Standards	By the end of Level 2 Training, trainees will demonstrate:	HAT	LEADER	ACAT	Epaed MSF	CbD	MiniCeX	DOC	DOPs	Portfolio	Logbook	Comment
12	Improving skills in safe prescribing in paediatrics and in advising others appropriately					✓				✓		
13	Effective skills in the assessment of cases of suspected safeguarding issues and in contributing to their management		✓			✓				✓	✓	
<b>MAINTAINING GOOD MEDICAL PRACTICE</b>												<i>Knowledge, Skills and Performance</i>
14	Sound knowledge of the science base for paediatrics					✓						
15	Extended knowledge of common and serious paediatric conditions and their management				✓	✓						
16	Effective skills in the assessment and management of children and young people with normal and abnormal growth and development					✓	✓					
<i>Knowledge, Skills and Performance. Safety and Quality</i>												
17	A commitment to health promotion activities for children and their families				✓	✓				✓		
18	Development and refinement of evidence-based clinical guidelines in paediatrics				✓	✓				✓		
19	Participation in clinical governance activities and audit in paediatric practice		✓		✓	✓				✓		
20	A commitment to reflective practice and continuing improvement of practice as a paediatrician		✓		✓					✓		
21	A commitment to an open-minded approach to equality and diversity in their role as a paediatrician		✓			✓				✓		
22	Knowledge of the law regarding death, data protection, confidentiality and consent in paediatrics		✓		✓					✓		



Curriculum for Paediatric Training with a sub-specialty in Paediatric Allergy, Immunology and Infectious Diseases												
Standards	By the end of Level 2 Training, trainees will demonstrate:	HAT	LEADER	ACAT	Epaed MSF	CbD	MiniCeX	DOC	DOPs	Portfolio	Logbook	Comment
TEACHING, TRAINING, APPRAISING AND ASSESSING												
Knowledge, Skills and Performance. Safety and Quality												
23	Skills in effective teaching in paediatrics		✓		✓					✓		Presentations with comments from supervisor
24	A commitment to provide positive experiences of mentoring and educational supervision				✓					✓		
25	An understanding of research methods and methodology and an involvement in research activities and publications									✓		
RELATIONSHIPS WITH PATIENTS												
Communication, Partnership and Teamwork. Maintaining Trust												
26	A commitment to effective communication and interpersonal skills with children of all ages		✓	✓	✓	✓	✓					
27	Improving skills in building relationships of trust of with children and their families		✓	✓	✓		✓					
28	Increasing confidence in giving advice to young people and their families			✓	✓	✓	✓					
WORKING WITH COLLEAGUES												
Communication, Partnership and Teamwork												
29	Skills in ensuring relationships with and between colleagues	✓	✓	✓	✓		✓					
30	Increasing confidence in team work and the ability to collaborate with a range of external agencies about the needs of children	✓	✓	✓	✓		✓					
31	Effective leadership and management skills in clinical and non-clinical settings	✓	✓	✓	✓		✓					
Communication, Partnership and Teamwork. Safety and Quality. Knowledge, Skills and Performance												
32	Effective skills in ensuring handover, referral and discharge procedures in paediatrics	✓		✓				✓		✓		
33	Experience and understanding of working within international, national and local legal and health structures and organizations involved in the care of children		✓		✓					✓		

Standards	By the end of Level 2 Training, trainees will demonstrate:	HAT	LEADER	ACAT	Epaed MSF	CbD	MiniCeX	DOC	DOPs	Portfolio	Logbook	Comment
<b>PROBITY</b>												<i>Maintaining Trust. Safety and Quality</i>
34	Sound ethical and professional practice		✓		✓	✓	✓			✓		
35	Continued responsibility for their reliability and accessibility to colleagues, patients and families				✓					✓		
<b>HEALTH</b>												
36	A consistently responsible approach to personal health, stress and well-being				✓					✓		

Standards	By the end of Level 3 Training, trainees will demonstrate:	HAT	LEADER	ACAT	Epaed MSF	CbD	MiniCeX	DOC	DOPs	Portfolio	Logbook	START	Paed CCF	Comment
<b>THE DUTIES OF A DOCTOR</b>														<i>Knowledge, Skills and Performance</i>
1	A commitment to advocate for the individual child in her/his particular context		✓		✓	✓				✓				
<b>GOOD CLINICAL CARE</b>														
2	Responsibility for an effective response to complex challenges and stress in paediatrics	✓	✓	✓	✓	✓	✓			✓		✓		
3	Effective responses to life-threatening situations and to unpredictability in paediatric clinical situations				✓	✓			✓		✓			
4	Responsibility for an analytical and focused three way consultation and examination	✓		✓		✓	✓							
5	Commitment to focused and analytical assessments of	✓		✓		✓	✓			✓		✓		

	common and complex clinical problems in paediatrics													
6	Effective skills in making a safe decision about the 'most likely' diagnosis in paediatrics			✓	✓	✓	✓					✓		
7	Leadership skills in the management of common and complex conditions in general paediatrics and paediatric sub-specialties seeking additional advice and opinion as appropriate		✓	✓	✓	✓	✓			✓		✓		
8	Effective skills in ensuring the management of behavioural, emotional and psychosocial aspects of illness in children and families				✓	✓						✓		
9	Expertise in a range of practical procedures in paediatrics specific to general and sub-specialist training			✓	✓				✓	✓	✓			
10	Effective skills in written communication for a range of audiences, for children and their families, colleagues and other organisations			✓	✓	✓		✓		✓				

Standards	By the end of Level 3 Training, trainees will demonstrate:	HAT	LEADER	ACAT	Epaed MSE	CbD	MiniCeX	DOC	DOPs	Portfolio	Logbook	START	Paed CCF	Comment
11	Effective collaboration with other specialists in using and interpreting complex investigations undertaken in children				✓	✓								
12	Reliability for safe prescribing in paediatrics in common and complex situations and for the supervision of others					✓						✓		
13	Effective skills in advising other agencies in safeguarding cases					✓		✓		✓		✓		
<b>MAINTAINING GOOD MEDICAL PRACTICE</b>														
<i>Knowledge, Skills and Performance</i>														
14	Detailed, up to date knowledge of the science base for general paediatrics or a paediatrics sub-specialty					✓				✓		✓		
15	Detailed knowledge of common and serious paediatric conditions and their management in General Paediatrics or in a paediatric sub-specialty					✓				✓		✓		
16	Effective skills in recognising and responding effectively to disordered growth and development of any kind in paediatrics					✓						✓		

<i>Knowledge, Skills and Performance. Safety and Quality</i>														
17	Involvement in health promotion activities specific to general paediatrics or a paediatric sub-specialty					✓				✓				
18	Independent thinking to enable them to challenge guidelines and procedures in paediatrics where appropriate		✓		✓	✓				✓				
19	An application of risk assessment strategies through active involvement in the development, evaluation and implementation of policy and clinical governance activities in paediatric practice		✓		✓	✓				✓		✓		
20	Effective skills to maintain and develop knowledge and clinical skills required of a specialist in paediatrics		✓		✓					✓				
21	Responsibility for ensuring an open-minded approach to equality and diversity in the paediatric team		✓			✓				✓		✓		
22	Detailed knowledge of the law regarding death, data protection, confidentiality and consent in paediatrics		✓		✓					✓		✓		
Standards	<b>By the end of Level 3 Training, trainees will demonstrate:</b>	HAT	LEADER	ACAT	Epaed MSE	CbD	MiniCeX	DOC	DOPs	Portfolio	Logbook	START	Paed CCF	Comment
<b>TEACHING, TRAINING, APPRAISING AND ASSESSING</b> <i>Knowledge, Skills and Performance. Safety and Quality</i>														
23	A commitment to effective teaching and training of colleagues working in different contexts in the care of children and young people		✓		✓					✓		✓		
24	Effective skills in the training, supervision and assessment of a wide range of colleagues working in the care of children and young people				✓					✓		✓		
25	An understanding and application of complex methodological approaches in research in paediatrics									✓		✓		
<b>RELATIONSHIPS WITH PATIENTS</b> <i>Communication, Partnership and Teamwork. Maintaining Trust</i>														
26	Effective strategies to engage children in consultations and the management of their care		✓	✓	✓	✓							✓	
27	Effective skills in conveying and discussing death and bereavement with young people and their families		✓	✓	✓	✓							✓	
28	Effective skills in giving information and advice to young people and their families in common and complex cases		✓	✓	✓	✓							✓	

<b>WORKING WITH COLLEAGUES</b>														<i>Communication, Partnership and Teamwork</i>	
29	Positive and constructive relationships within teams of colleagues from a wide range of professional contexts	✓	✓	✓	✓	✓						✓			
30	A commitment to effective multi-agency and multi-disciplinary team working for the care of children	✓	✓	✓	✓	✓						✓			
31	Effective managerial skills in taking on a positive role to support effective service provision		✓		✓	✓						✓			
<i>Communication, Partnership and Teamwork. Safety and Quality. Knowledge, Skills and Performance</i>															
32	Effective leadership skills in the organisation of paediatric team working and effective handover	✓		✓				✓		✓		✓			
33	Effective skills in promoting clinical practice through engagement with local, national and international organisations involved in the care of children		✓		✓					✓		✓			
Standards	By the end of Level 3 Training, trainees will demonstrate:	HAT	LEADER	ACAT	Epaed MSF	CbD	MiniCeX	DOC	DOPs	Portfolio	Logbook	START	Paed CCF	Comment	
<b>PROBITY</b>														<i>Maintaining Trust. Safety and Quality</i>	
34	Exemplary professional and personal conduct so as to act as a role model to others		✓		✓		✓			✓					
35	responsibility for ensuring their own reliability and accessibility and that of others in their team				✓					✓					
<b>HEALTH</b>															
36	Effective skills in ensuring their own responsibility to personal health, stress and well-being and that of others				✓					✓					