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| Paediatrics in Urgent and Emergency Care (UEC) Learning Resources |
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Author and Acknowledgments

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# Introduction

In July 2020, the London Urgent and Emergency Care Clinical and Professional Leadership Group reviewed workforce priorities across London, identifying work already underway and areas requiring development. It recognised a need for the provision of paediatric-specific educational opportunities within the Urgent and Emergency care (UEC) workforce.

Influencing factors included the desire to:

* prevent children from being referred to Emergency departments
* increase the confidence and capability of the Urgent Care workforce in treating and managing children
* ensure potential safeguarding issues were identified and understood

With paediatric specific educational opportunities identified as a priority Clinical Director for Integrated Paediatrics (RLH) and Paediatric Consultant at Barts, Giles Armstrong, agreed to lead a piece of work to produce a paediatric-focused educational resource tailored towards the Urgent and Emergency Care workforce to bolster confidence when treating children, subsequently resulting in the Paediatrics in UEC Learning Resource.

# Background

A review of children and young people presenting to UEC across London between 2017 – 2020 was conducted. Alongside this, a review of the following documents was carried out:

* First Contact Practitioners and Advanced Practitioners in Primary Care: (Paramedics) A Roadmap to Practice
* Paramedic Specialist in Primary and Urgent Care Core Capabilities Framework
* Royal College of Emergency Medicine (RCEM) Advanced Clinical Practitioner (ACP) Curriculum

UEC Emergency Practitioner Framework

The scope of this document is to outline common areas of knowledge required in line with these areas. It covers both clinical presentations and non-clinical presentations that practitioners working with children and young people may come across in practice. It aims to provide a selection of learning resources that are currently available to assist the urgent care workforce in developing their confidence in treating children and young people.

# Definitions

For the purpose of this document children and young people are defined as patients aged between 0 – 18 years of age. Neonates are defined as those aged 0-28 days.

# Competencies

There are a number of locally approved frameworks, for example, The RCEM ACP curriculum. This document is not intended as a curriculum but as a resource to use alongside existing

curriculum competencies and as standalone learning for practitioners wishing to gain knowledge in treating children and young people.

The resource is not intended as specific learning to be achieved, but as a resource to be used in conjunction with appraisal and personal development needs. Its use will depend on the setting it is used within and how each individual chooses to use it.

# Who is this resource for?

All practitioners working within the community, urgent care and pre-hospital settings who wish to develop their knowledge and gain confidence in treating children and young people.

# What are the resources?

This is not an exhaustive list as new resources are constantly being developed, it is a collection of e–learning, blogs, quizzes and other resources that cover the common presenting complaints of children and young people accessing Urgent care.

Resources and guidelines are constantly changing and being updated, as such user discretion is recommended. These resources should not replace local guidelines.

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| 1) Abdominal pain |
| Key Capabilities / Knowledge |
| 1. Demonstrates an awareness of common causes of abdominal pain in children and young people    1. For example, gastroenteritis, Gastro-Oesophageal Reflux Disease (GORD), Cow’s Milk Protein Allergy (CMPA), Urinary Tract Infection (UTI), Diabetic Ketoacidosis (DKA) and mesenteric adenitis 2. Demonstrates an awareness of more significant causes of abdominal pain    1. For example, pyloric stenosis, intussusception 3. Recognise signs of obstruction 4. Awareness of causes of upper and lower gastrointestinal (GI) bleeding 5. Awareness of causes of testicular pain 6. Awareness of gynaecological disorders in young people |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 1a | Diagnosis and management of  constipation in children[1] | National Institute for Health and Care Excellence (NICE) | <https://www.nice.org.uk/guidance/cg99/chapter/1-Guidance> | Guidelines |
| 1a | Urinary tract infection in under 16s: diagnosis and  management[2] | NICE | <https://www.nice.org.uk/guidance/cg54> | Guidelines |
| 1a | Constipation[3] | Don’t Forget the Bubble s (DFTB) | <https://dontforgetthebubbles.com/conversations-about-constipation/> | Overview of discussing constipation and management with parents |
| 1a | Gastroenteritis[4] | DFTB | <https://dontforgetthebubbles.com/gastroenteritis> | Case based learning on gastroenteritis |
| 1a | Urinary Tract Infections in Children[5] | E - Learning for health | <https://portal.e-lfh.org.uk/Component/Details/426859> | This session looks at the techniques available to collect urine samples from  children in an emergency department. It discusses the evidence basis and the  relative merits of each technique. |
| 1a | Constipation Module[6] | DFTB | <https://dontforgetthebubbles.com/constipation-module/> | Case discussions covering the key points and evidence, grey areas, diagnostic dilemmas; advanced management and  escalation |
| 1a | Paediatric Hernias[7] | PEM  infographics | <https://www.peminfographics.com/infographics/paediatric-hernias> | Infographic on hernias and their  management |
| 1a | Abdominal pain in children[8] | DFTB | <https://dontforgetthebubbles.com/abdo-pain-week-1-general-approach/> | Addresses history taking and examination |
| 1a | Paediatric abdominal  examination[9] | Geeky medics | <https://geekymedics.com/paediatric-abdominal-examination-osce-guide/> | OSCE guide on how to examine a child  with abdominal pain |
| 1a, 1b | Acute Paediatric surgical  conditions[10] | E - Learning for  health | <https://portal.e-lfh.org.uk/Component/Details/527670> | This session reviews some acute paediatric  surgical conditions seen in primary care. |
| 1a, 1b | Abdominal Pain[11] | RCEM | <https://www.rcemlearning.co.uk/foamed/pem-induction-chapter-11-abdominal-pain/> | This blog focusses on Paediatric abdominal pain |
| 1a, 1d | Gastroenteritis[12] | NICE | <https://cks.nice.org.uk/topics/gastroenteritis/background-information/causes/> | Guidelines |
| 1a, 1e | Non urgent Paediatric surgical  conditions[13] | E - Learning  for health | <https://portal.e-lfh.org.uk/Component/Details/527667> | Common conditions seen in primary care  explaining what to refer and when |
| 1b | Surgical causes or abdominal pain[14] | DFTB | <https://dontforgetthebubbles.com/a-framework-for-looking-at-acute-abdominal-pain/> | This series of posts will look at the best approach to assessing the child with abdominal pain, and covers common  presenting surgical conditions. |
| 1b | Lightning Learning: Pyloric Stenosis[15] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/4/2/2019/lightning-learning-pyloric-stenosis> | 1 page review of pyloric stenosis |
| 1b | Functional abdominal pain[16] | Paediatric EM  blog spot | <http://paediatricem.blogspot.com/2015/06/functional-abdominal-pain.html> | Overview of functional abdominal pain |
| 1b | Functional abdominal pain[17] | Alderhey  hospital | <https://www.youtube.com/watch?v=7z6IgmYihec&t=366s> | Overview of functional abdominal pain |
| 1b, 1d | Lightning Learning: Intussusception[18] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/13/11/2017/lightning-learning-intussusception> | Lightening review of intussusception |
| 1d | Meckels disease[19] | DFTB | <https://dontforgetthebubbles.com/much-ado-about-meckels/> | Case based learning on Meckels |
| 1e | Penile problems[20] | DFTB | <https://dontforgetthebubbles.com/penile-problems/> | Case based learning on penile problems |
| 1e | Saving the balls - the acute scrotum[21] | DFTB | <https://dontforgetthebubbles.com/saving-balls-101-acute-scrotum/> | Case based learning on testicular problems |
| 1e | Testicular trouble[22] | DFTB | <https://dontforgetthebubbles.com/testicular-trouble/> | Case based learning on testicular torsion |
| 1e | Balanitis in children[23] | NICE | <https://cks.nice.org.uk/topics/balanitis/management/balanitis-children/> | Guidelines on management of balanitis |
| 1e | Testicular troubles[24] | DFTB | <https://dontforgetthebubbles.com/camille-wu-at-dftb17/> | Recorded conference talk on testicular  problems |
| 1e | Inguinoscrotal masses[25] | DFTB | [https://dontforgetthebubbles.com/saving-balls-101- inguinoscrotal-masses/](https://dontforgetthebubbles.com/saving-balls-101-%20inguinoscrotal-masses/) | Learning on hernias and other scrotal lumps |
| 1f | Pelvic Inflammatory Disease (PID) [26] | Paediatric FOAMED | <https://www.paediatricfoam.com/2021/03/pelvic-inflammatory-disease-assessing-adolescents-in-ae/> | Case based learning on PID |
| 1f | Pelvic Pain[27] | DFTB | <https://dontforgetthebubbles.com/acute-pelvic-pain/> | Case based learning on causes of pelvic  pain in young women |
| 1f | Menorrhagia[28] | DFTB | [https://dontforgetthebubbles.com/period-problems- menorrhagia/](https://dontforgetthebubbles.com/period-problems-%20menorrhagia/) | A logical and systematic approach to assessing and managing period problems  in teenagers |
| 1f | Contraception[29] | DFTB | <https://dontforgetthebubbles.com/emergency-contraception-for-teenagers/> | Case based learning on managing  requests for emergency contraception |
| 1f | Adolescent gynaecology[30] | E - Learning for health | <https://portal.e-lfh.org.uk/Component/Details/32928th0> | E-learning session covering gynaecological symptoms including normal and abnormal  Menstruation |
| 1f | Sexual behaviour in adolescents[31] | E - Learning for health | <https://portal.e-lfh.org.uk/Component/Details/367995> | E-learning session aiming to help you understand the range and epidemiology of normal sexual behaviour in adolescence. It will also create awareness of the issues relating to gender, sexual identity and implications of long-term  illness for sexual function and health. |
| 1f | Sexually Transmitted Disease (STD) in adolescents[32] | E - Learning for health | <https://portal.e-lfh.org.uk/Component/Details/368013> | E-learning session that reviews Sexually Transmitted Infection (STI) trends in young people, sexual health promotion and identify factors which place young people at high risk of STIs. |

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| 2) Allergic reaction |
| Key Capabilities / Knowledge |
| a) Awareness of common symptoms and treatments of allergic reactions |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 2a | Recognising and Managing Anaphylaxis[217] | E – Learning for health | <https://portal.e-lfh.org.uk/Component/Details/429354> | This session has been developed to aid understanding of the recognition and management of anaphylaxis from any cause and in any setting. It includes management of anaphylaxis in children, further treatment in a hospital setting, blood tests and longer term follow up of  those who experience anaphylaxis |
| 2a | Anaphylaxis module[ 220] | DFTB | <https://dontforgetthebubbles.com/anaphylaxis-module/> | Explore anaphylaxis with cases and examples also an optional simulation module for team learning |
| 2a | Anaphylaxis [290] | The Royal College of Paediatrics and Child Health (RCPCH) | <https://www.rcpch.ac.uk/sites/default/files/RCPCH_Care_Pathway_for_Children_with_Anaphylaxis.pdf> | Guidelines |
| 2a | Food allergies [291] | NICE | [https://www.nice.org.uk/guidance/cg116/resources/food- allergy-in-under-19s-assessment-and-diagnosis-pdf-35109392795845](https://www.nice.org.uk/guidance/cg116/resources/food-%20allergy-in-under-19s-assessment-and-diagnosis-pdf-35109392795845) | Guidelines |

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| 3) Atraumatic limb pain |
| Key Capabilities / Knowledge |
| b) Demonstrates an awareness of common causes of atraumatic limb pain in children and young people |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 3a | The Acutely Limping Child [33] | E-learning for health | <https://portal.e-lfh.org.uk/Component/Details/318860> | E-learning session that covers those conditions that will result in a child  presenting with a limp |
| 3a | Painful swollen joints [34] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/318912> | E-learning session that covers the common causes of a painful swollen joint in children Explores the importance of recognising septic arthritis and the diagnosis of juvenile  idiopathic arthritis |
| 3a | Paediatrics for Paramedics > The Limping Child [35] | E-Learning for Health | <https://portal.e-lfh.org.uk/Component/Details/522711> | E-learning session that covers investigating the causes and effects of paediatric limping. Including high risk diagnosis, such as malignancy, septic arthritis |
| 3a | Acute childhood limp [292] | NICE | <https://cks.nice.org.uk/topics/acute-childhood-limp/> | Guidance and red flags for limping child |
| 3a | Non traumatic Musculoskeletal (MSK) injuries[ 36] | DFTB | <https://dontforgetthebubbles.com/non-traumatic-msk-injuries-module/> | Differential diagnosis of non-traumatic pain, common causes and diagnosis not to miss |

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| 3a | The limping child [37] | DFTB | <https://dontforgetthebubbles.com/the-limping-child-module/> | Case discussions covering the key points and evidence, grey areas, diagnostic dilemmas;  advanced management and escalation |
| 3a | The Limping Child [38] | RCEM | <https://www.rcemlearning.co.uk/modules/the-limping-child-pem-induction/> | Case based learning on the limping child |
| 3a | Please, Just STOP LIMPING! [39] | Pediatric emergency  playbook | <https://pemplaybook.org/podcast/please-just-stop-limping/> | Tackling the limping child |
| 3a | Fever and a limp [40] | DFTB | <https://dontforgetthebubbles.com/fever-limp/> | Case based learning on the limping child |
| 3a | Transient Synovitis[ 41] | RCEM | <https://www.rcemlearning.co.uk/foamed/transient-synovitis/> | Brief overview of transient synovitis |
| 3a | Osteomyelitis[ 42] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/16/9/2019/lightning-learning-osteomyelitis-in-kids> | Lightening learning on Osteomyelitis |
| 3a | Atraumatic limb pain [43] | NHS Greater Glasgow and Clyde | https://[www.clinicalguidelines.scot.nhs.uk/nhsggc-](http://www.clinicalguidelines.scot.nhs.uk/nhsggc-)guidelines/nhsggc-guidelines/emergency-medicine/atraumatic-painful-limb/ | Guideline outlining the initial assessment and management of the child presenting to the emergency department with an atraumatic  painful limb/limp. |
| 3a | Acute childhood limp [44] | NICE | <https://cks.nice.org.uk/topics/acute-childhood-limp/> | Guidelines |
| 3a | The limping child [45] | 2 Peads in a pod | <https://soundcloud.com/user-663288011/episode-53-fifteen-minute-consultation-the-limping-child> | Podcast on what to look for, what investigations are needed and what not to  miss |

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| 4) Burns |
| Key Capabilities / Knowledge |
| 1. Evaluation of burns, management of minor burns, recognition of when to refer to specialist centre 2. Accurately describe burn depth 3. Aware of tools to calculate burn percentage in children and young people |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 4a, 4b, 4c | Minor burns and scalds [46] | Paediatric FOAMED | <https://www.paediatricfoam.com/2018/11/how-not-to-be-burned-by-burns-part-1-minor-burns-and-scalds/> | Case based learning on burn management |
| 4a | Airway, Breathing, Circulation, Disability, Exposure (ABDCE) of burns management [47] | Paediatric pearls | <https://www.paediatricpearls.co.uk/do-you-know-your-abcdde-of-burns-management/> | Systematic approach to ABCDE assessment of burns injuries |
| 4a | National burn care referral  guidance [48] | British burn  association | <https://www.britishburnassociation.org/national-burn-care-referral-guidance/> | National guidelines on when to refer burn |
| 4a | Initial management of burns[ 49] | London and south east of England burns  network | <https://www.mysurgerywebsite.co.uk/website/X13911/files/LSEBN%20Initial%20management%20of%20burns.pdf> | 1 page learning on initial management of burns, dressings and follow up |
| 4b | Assessing burn depth [50] | London and south east of England burns  network | <https://www.mysurgerywebsite.co.uk/website/X13911/files/LSEBN%20Burns%20Depth%20Assessment.pdf> | 1 page learning on assessing burn depth |
| 4c | Mersey burns (PC and APP) |  | Mersey Burns APP | Free app that allows you to calculate burns  surface area |

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| 5) Communication |
| Key Capabilities / Knowledge |
| 1. Accurately takes an age-appropriate history that includes biological, psychological, educational/vocational and social factors, for example, home, employment, eating activities, drugs and alcohol, sexuality, suicide and depression, and safety assessment, or Home, Education/employment, peer Group Activities, Drugs, Sexuality, and Suicide/depression (HEADSS) 2. Is aware of the challenges associated with communicating with children and young people, use age appropriate language and examination techniques |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 5a | Communication with young people[ 51] | RCEM | <https://www.rcemlearning.co.uk/foamed/communicating-with-young-people-in-crisis/> | Blog looking at overcoming barriers in communication with young people,  which will help you build trust with and get the information you need from the patient to treat them and keep them  safe, with some great insights from  young people working with Redthread. |
| 5a | HEADDSS assessment tool [52] | 2 Paeds in a pod | <https://soundcloud.com/user-663288011/episode-14->  [talking-headss](https://soundcloud.com/user-663288011/episode-14-) | Podcast on the HEADDSS assessment tool |
| 5a | Paediatric history taking 53] | Geeky medics | <https://geekymedics.com/paediatric-history-taking/> | Taking a paediatric history including a  HEADSSS assessment |
| 5a | How to be an LGBTQIA+ young person’s ally [54] | DFTB | <https://dontforgetthebubbles.com/lgbtqia-young-persons-ally/> | Advice on discussing LGTBQIA issues with young people |
| 5a | Emergency Care for Transgender and Gender- Diverse Children and  Adolescents (Ethics CME) [55] | Eb medicine | <https://www.ebmedicine.net/topics/ethics/transgender-gender-diverse-children/podcast> | Podcast on gender and sexual orientation, managing this patient group and specific risk factors |
| 5b | Autism awareness[ 56] | E-learning for health | <https://portal.e-lfh.org.uk/Component/Details/650066> | Modules including:   1. introduction to autism 2. Adapting behaviour |
| 5b | Understanding disability [57] | E-learning for  health | <https://portal.e-lfh.org.uk/Component/Details/450079> | Modules including:   1. Hidden disabilities 2. Disabilities, cultures and languages 3. Learning difficulties matter |
| 5b | We can talk [58] | We Can Talk | https://wecantalk.online/ | Communicating with children and families with mental health problems |
| 5b | Top tips for medical students [59] | Paediatric FOAMED | <https://www.paediatricfoam.com/2019/08/your-first-paediatrics-placement-top-ten-tips-for-medical-students/> | Tips on working with children |
| 5b | Introduction to Paediatrics for Paramedics [60] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/523011> | This session describes some of the key differences between assessing and treating children compared with adults. Later, it will identify the age-specific features including observations and developmental milestones  that can contribute to clinical assessments |
| 5b | Paediatric communication and consent[61] | Mind the bleep | <https://mindthebleep.com/paediatrics-communication-consent/> | Tips on communication with children |
| 5b | Talking to teenagers [62] | DFTB | <https://dontforgetthebubbles.com/talking-to-teens/> | Suggestions of how to talk to teenagers |

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| 6) Crying infant |
| Key Capabilities / Knowledge |
| 1. Is able to recognise and identify feeding issues 2. Is able to recognise and manage common causes of crying in infants, for example, Reflux, Cow’s Milk Protein Allergy |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 6a | Breast feeding for doctors [63] | Paediatric Foamed | <https://www.paediatricfoam.com/2018/09/breastfeeding-for-doctors-101-part-1/> | basic guide to breastfeeding |
| 6a | Crying babies in ED[64] | East Midland Emergency  medicine educational  media | <https://em3.org.uk/foamed/26/8/2019/lightning-learning-crying-babies-in-ed> | 10 tips on assessing the crying baby |
| 6a, 6b | Cry baby, cry [65] | Paediatric Foamed | <https://www.paediatricfoam.com/2019/04/colic-cmpa-and-reflux/> | Learning on the ‘Big Three’ in infant crying  – that is to say, Colic, Cow’s Milk Protein Allergy (CMPA) and reflux. |
| 6b | Cry baby, cry [66] | Paediatric Foamed | <https://www.paediatricfoam.com/2019/03/cry-baby-cry-part-1/> | Overview of common causes of crying in babies |
| 6b | Crying baby – infant [293] | Royal Childrens  hospital Melbourne | <https://www.rch.org.au/clinicalguide/guideline_index/Crying_Baby_Infant_Distress/> | Guideline on management of crying babies |

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| 7) Ear, nose and throat presentations |
| Key Capabilities / Knowledge |
| 1. Is able to recognise and manage common presentations of earache including   For example, Otitis media / externa, Foreign Body (FB) in ear canal, mastoiditis   1. Is aware of methods for removing a foreign body from the ear canal 2. Can manage epistaxis 3. Recognises signs of common presentations   For example, Tonsillitis   1. Is able to recognise and refer serious presentations of a sore throat   For example, quinsy, epiglottitis   1. Is able to manage possible ingestion of a foreign body |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 7a | Otitis media [67] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/20/5/2019/lightning-learning-otitis-media-diagnosis-management> | Recognition and management of otitis media |
| 7a | Acute Otitis Externa [68] | NHS Greater Glasgow and Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-guidelines/emergency-medicine/acute-otitis-externa-in-children-emergency-department/> | Guidelines |
| 7a | Ear problems and examination [69] | Continuing Professional Development (CPD) me | <https://www.youtube.com/watch?v=EmFKwtLQKMs> | General guide to ear examination and common conditions |
| 7a | A word in your ear [70] | DFTB | <https://dontforgetthebubbles.com/ent-part-1-a-word-in-your-ear/> | Learning looking at recognition and management of common paediatric Ear, Nose, and Throat (ENT) conditions |
| 7a | Who nose?[71] | DFTB | <https://dontforgetthebubbles.com/ent-part-2-who-nose/> | Learning addressing  recognition and management of common  paediatric ENT conditions |
| 7a | Mastoiditis [72] | Geeky medics | <https://geekymedics.com/mastoiditis/> | Recognition and management of mastoiditis |
| 7b | Stuck in the ear [73] | RCEM | <https://www.rcemlearning.co.uk/foamed/stuck-in-the-ear/> | Blog on FB it in the ear and how to remove them |
| 7b | Foreign body game [74] | East Midland Emergency medicine educational media | <https://em3.org.uk/foamed/6/10/2020/the-paediatric-foreign-body-game> | Revision cards/ game on management of FB's in children |
| 7b | Ear Foreign body [75] | PEM morsels | <https://pedemmorsels.com/ear-foreign-body/> | Assessment and management of FB in the ear |
| 7b | Removing foreign bodies [76] | PEM infographics | <https://www.peminfographics.com/infographics/removing-foreign-bodies> | Infographic on FB removal |
| 7c | Epistaxis [80] | NICE Clinical Knowledge Summaries (CKS) | <https://cks.nice.org.uk/topics/epistaxis-nosebleeds/> | Guidelines on management of nosebleeds |
| 7c | Epistaxis management in children[81] | NHS Greater Glasgow and Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-guidelines/emergency-medicine/epistaxis-management-in-children/> | Guidelines on management of nosebleeds |
| 7c | Managing epistaxis in children[82] | Gp learning on line | <https://www.gponline.com/managing-epistaxis-children-paediatric-medicine/paediatrics/paediatrics/article/1057178> | How to manage epistaxis in children |
| 7d | Scarlet fever[259] | East Midland Emergency medicine educational  Media | <https://em3.org.uk/foamed/11/2/2019/lightning-learning-scarlet-fever> | Lightening learning on scarlet fever |
| 7d | Tonsillitis[274] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/13/8/2018/lightning-learning-tonsillitis?rq=tonsillitis> | Lightening learning on Tonsillitis |
| 7d | Acute Sore Throat [275] | NHS Greater Glasgow and  Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-guidelines/emergency-medicine/acute-sore-throat/> | Guidelines |
| 7e | Peri-tonsillar abscess[ 277] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/27/8/2018/lightning-learning-peritonsillar-abscess> | Lightening learning on Quinsy |
| 7e | Epiglottitis [287] | Patient info | <https://patient.info/doctor/epiglottitis-pro> | Article on recognition and management of epiglottitis |
| 7f | Inhaled FB [219] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/317956> | This session reviews the role of imaging in  suspected inhalation of a foreign body in children |
| 7f | Ingested FB [222] | EM in 5 minutes | <https://emin5.com/2014/02/17/foreign-body-ingestions/> | US video on ingested FB |
| 7f | Ingested FB [278] | PEM infographic | <https://www.peminfographics.com/infographics/button-battery-ingestion> | Infographic on ingestion of button batteries |

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| 8) Facial injuries |
| Key Capabilities / Knowledge |
| 1. Awareness of common facial injuries 2. Awareness of how to manage dental injuries |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 8a | Facial bone x – rays [77] | DFTB | <https://dontforgetthebubbles.com/facial-bone-x-rays/> | How to interpret facial bone x- rays |
| 8a | Mandible injuries[78] | DFTB | <https://dontforgetthebubbles.com/mandible-x-rays/> | How to interpret mandible x - rays |
| 8a | Minor injuries – face and head [79] | Paediatric pearls | <https://www.paediatricpearls.co.uk/wp-content/uploads/Minor-Injuries-Series-head-and-face.pdf> | Common injuries and their management |
| 8b | Mouth and dental injuries in children [83] | Up to date | <https://www.uptodate.com/contents/mouth-and-dental-injuries-in-children-beyond-the-basics#!> | A review of the most common causes, evaluation, and treatment of dental and mouth injuries |
| 8b | Dental injuries[84] | Royal Children’s Hospital  Melbourne | <https://www.rch.org.au/clinicalguide/guideline_index/Dental_injuries/> | Australian learning and guidelines on management of dental injuries |
| 8b | Management of avulsed  permanent tooth in children [85] | British society for  Paediatric Dentistry | <https://www.bspd.co.uk/Portals/0/Public/Files/Guidelines/avulsion_guidelines_v7_final_.pdf> | Guideline |
| 8b | Managing trauma in primary dentition [86] | International Association of  Dental Trauma | <https://onlinelibrary.wiley.com/doi/full/10.1111/edt.12576> | Guidelines |

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| 9) Fever |
| Key Capabilities / Knowledge |
| 1. Demonstrates an awareness of the Febrile child NICE guidance and local policies and guidelines 2. Is aware of common causes of fever in children and their management   For example, UTIs, Lower Respiratory Tract Infection (LRTI), Upper Respiratory Tract Infection (URTI), bronchiolitis, croup, Otitis Media, tonsillitis   1. Is able to recognise more significant cause of fever and refer appropriately   For example, meningitis, encephalitis, sepsis, Kawasaki’s disease  d) Provide safety netting advice for common conditions |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 9a | NICE fever guidelines [87] | Life in the fast lane | <https://litfl.com/nice-fever-guidelines-for-kids/> | Overview of NICE fever Guidelines |
| 9b | UTIs in Children[ 5] | E - Learning for health | <https://portal.e-lfh.org.uk/Component/Details/426859> | This session looks at the techniques available to collect urine samples from children in an emergency department. It discusses the evidence basis and the relative merits of  each technique. |
| 9b | Bronchiolitis [88] | DFTB | <https://dontforgetthebubbles.com/bronchiolitis-module/> | Case discussions covering the key points and evidence, grey areas, diagnostic dilemmas;  advanced management and escalation |
| 9b | Croup [89] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/18/9/2017/lightning-learning-croup?rq=croup> | Lightening learning on croup |
| 9b | Whooping cough [90] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/30/9/2019/lightning-learning-whooping-cough> | Lightening learning on Whooping cough |
| 9b | Community acquired pneumonia [91] | Paediatric FOAMED | <https://www.paediatricfoam.com/2018/08/community-acquired-pneumonia-an-interactive-case/> | Case based learning |
| 9b | Cardiovascular examination [92] | Geeky medics | <https://geekymedics.com/paediatric-cardiovascular-examination-osce-guide/> | Performing a cardiovascular assessment in children |
| 9b, 9c | A child with a fever [93] | RCEM | <https://www.rcemlearning.co.uk/foamed/a-child-with-a-fever/> | This guide, by no means exhaustive, aims to talk you through a basic approach to  assessment and management, with a reminder of those causes you really don’t want to miss. |
| 9b, 9c | The child with fever [94] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/550362> | This session will investigate the role of temperature when assessing a child with fever. Later, it will explore the circumstances under which a child with fever needs urgent treatment and identify the serious illnesses  commonly associated with fever in children. |
| 9b, 9c | Basic Child assessment[95] | Spotting the sick  child | <https://spottingthesickchild.com/> | Basic assessment of the sick child, with  useful videos |
| 9b, 9c | Symptoms [95] | Spotting the sick child | <https://spottingthesickchild.com/> | Assessment and examination of children presenting with common complaints, such as  fever, respiratory distress, including videos |
| 9c | Bacterial meningitis and meningococcal septicaemia [96] | RCPCH | <https://www.rcpch.ac.uk/resources/bacterial-meningitis-meningococcal-septicaemia-children-elearning> | This course helps healthcare professionals assess and manage children who present with possible bacterial meningitis and/or  meningococcal septicaemia |
| 9c | Kawasaki’s disease [97] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/7/1/2019/lightning-learning-kawasaki-disease> | Lightening learning on Kawasaki’s disease |

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| 9c | | Kawasaki’s disease [98] | East Midland Emergency medicine educational  media | <https://www.paediatricfoam.com/2017/06/kawasaki-disease-pearls-and-pitfalls/> | Presentation and management of Kawasaki’s disease |
| 9d | | Safety netting for common infections [99] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/696216> | This session will focus on the safety netting for common infections  In out-of-hours primary care. |
| 9d | | Safety netting for bronchiolitis [100] | DFTB | <https://dontforgetthebubbles.com/safety-netting-for-bronchiolitis/> | Safety netting families on discharge with bronchiolitis |
| 9e | | Paediatric Multisystem Inflammatory Syndrome (PIMS-TS) temporally associated with Covid-  19[101] | RCPCH | <https://www.rcpch.ac.uk/sites/default/files/2020-05/COVID-19-Paediatric-multisystem-%20inflammatory%20syndrome-20200501.pdf> | Guidelines |
| 9e | | PIMS-TS – temporally  associated with SARS-CoV 2  (PIMS-TS): Critical Care guidance [102] | Paediatric Intensive Care Society | <https://pccsociety.uk/wp-content/uploads/2020/05/PIMS-TS-Critical-Care-Clinical-Guidance-v4.pdf> | A summary report of a facilitated ‘knowledge sharing session’ between clinicians with collective experience of the critical care management of children with PIMS-TS |
| 9e | | Is this child presenting with PIMS-TS? [103] | North Thames  Paediatric Network | <https://www.youtube.com/watch?v=ei5q9HGB0Fs> | Webinar aimed at ED and frontline staff |
| 9e | | PIMS-TS [104] | DFTB | <https://dontforgetthebubbles.com/pims-ts/> | Overview of presentation and management |
| 10) Headaches | | | | | |
| Key Capabilities / Knowledge | | | | | |
| a) Understands primary and secondary causes of headaches in children and their management, such as Migraines, brain tumours | | | | | |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 10a | Headaches module [105] | DFTB | <https://dontforgetthebubbles.com/headaches-module/> | Learning module on headache in children, management and diagnosis |
| 10a | Pediatric Headaches – some relief for all[286] | PEM playbook | <https://pemplaybook.org/podcast/pediatric-headache-some-relief-for-all/> | Podcast covering primary and secondary causes of headache |
| 10a | Headaches [106] | E- learning for Health | <https://portal.e-lfh.org.uk/Component/Details/448302> | Explores common causes of headache, presentation and treatment options. It also explores the impact of headache on child's  social and family life. |
| 10a | Are headaches giving you a headache[107] | Paediatric FOAMed | <https://www.paediatricfoam.com/2019/03/headaches/> | Overview of headaches in children |
| 10a | Headaches in children [108] | NHS  Greater Glasgow and Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-paediatric-clinical-guidelines/nhsggc-guidelines/emergency-medicine/headaches-in-children/> | Guidelines on management and investigation of headaches |
| 10a | Primary headaches in children [109] | PEM infographics | <https://www.peminfographics.com/infographics/primary-headaches-in-children> | Infographic on headaches in children |
| 10a | Headaches in children over 12[285] | NICE | <https://www.nice.org.uk/guidance/cg150/resources/headac%20hes-in-over-12s-diagnosis-and-management-pdf-35109624582853> | Guidelines |
| 10a | Secondary headaches in children [110] | PEM infographics | <https://www.peminfographics.com/infographics/secondary-headaches-in-children> | Infographic on headaches in children |

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| 11) Head injury |
| Key Capabilities / Knowledge |
| 1. Awareness of NICE guidelines for head injury management 2. Can perform a neurological assessment in children and young people of a variety of age groups |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 11a | Head injuries module [111] | DFTB | <https://dontforgetthebubbles.com/head-injuries-module/> | Case discussions covering the key points and evidence, grey areas, diagnostic dilemmas; advanced management and  escalation |
| 11a | Head injury overview [112] | NICE | <https://www.nice.org.uk/guidance/cg176> | NICE Guidelines |
| 11a, 11b | Head injury [113] | RCEM | <https://www.rcemlearning.co.uk/foamed/head-injury/> | Blog addressing the assessment of the child with a head injury and the treatment of these children, depending of the severity  of their head injury. |
| 11b | Paediatric neurological examination[114] | Geeky medics | <https://geekymedics.com/paediatric-neurological-examination-osce-guide/> | The Objective Structured Clinical Examination (OSCE) guide to a paediatric neurology exam |

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| 12) Limb injuries |
| Key Capabilities / Knowledge |
| 1. Demonstrates an awareness of common causes of limb injuries in children and young people   a. For example, soft tissue injuries, fractures, dislocations, amputations   1. Is able to identify the need for imaging in children and young people with limb injuries 2. Demonstrates an awareness of age-appropriate variables when interpreting imaging |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 12a, 12b | Soft Tissue and Bony Injuries in Children [115] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/426844> | Paediatric injuries can be very different  from those sustained in adults in many respects. This session discusses why this is the case and outlines the general principles of treating paediatric injuries. |
| 12a, 12b | Minor injuries – the elbow [116] | Paediatric pearls | <https://paediatricpearls.co.uk/wp-content/uploads/minor-injuries-series-wrist.pdf> | Assessment and management of common wrist injuries |
| 12a, | Minor injuries – the elbow [117] | Paediatric pearls | <https://www.paediatricpearls.co.uk/wp-content/uploads/Minor-Injuries-Series-ankles.pdf> | Assessment and management of common ankle injuries |
| 12a | Minor injuries – the elbow [118] | Paediatric pearls | <https://www.paediatricpearls.co.uk/minor-injuries-part-2/> | Assessment and management of common elbow injuries |
| 12a | Accidental Trauma [119] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/357346> | This session will discuss those fractures and bony injuries which are relatively unique to the paediatric population. It will highlight the important radiological findings and discuss those features which are useful in making a definitive diagnosis. |
| 12a | Wrist examination [120] | DFTB | <https://dontforgetthebubbles.com/wrist-examination-pathology-module/> | Wrist Examination and Pathology Module |
| 12a | Pulled elbow [121] | DFTB | <https://dontforgetthebubbles.com/pulled-elbows/> | Management of a pulled elbow |
| 12a | Pulled Elbow [122] | NHS Greater Glasgow and Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-guidelines/emergency-medicine/pulled-elbow/> | Guidelines |
| 12c | Bone development [123] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/428th353> | This course discusses bone development and the appearance and growth of bones in children. Examples of common normal variants and congenital abnormalities are  discussed |

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| 12c | X ray interpretation [124] | DFTB | <https://dontforgetthebubbles.com/x-ray-interpretation/> | A systematic approach to interpreting X- rays, including: 1)Wrist 2)Shoulder 3)Ankle 4)Foot 5)Knee  6)Elbow" A systematic approach to interpreting X- rays |
| 12c | Image Interpretation of the Paediatric Skeleton: Fractures [125] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/326333> | This session discusses fractures that are specific to children. The Salter Harris Classification System is outlined, along with a systematic approach to assessing images. A series of paediatric x-rays are used to  evaluate your interpretation skills. |

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| 13) Medicines management |
| Key Capabilities / Knowledge |
| 1. Practise in line with the principles of antibiotic stewardship. 2. Recognises the indications for antibiotic therapy and is able to rationalise not giving medication where contraindicated |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 13a | Introduction to Antimicrobial Resistance [126] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/411372> | An introduction to antimicrobial resistance |
| 13a | 1. Prudent use of antibiotics[127] 2. Prudent use of antibiotics part 2[128] 3. Prudent use of antibiotics part 3 129] | E-Learning for health | 1. <http://portal.e-lfh.org.uk/Component/Details/48391> 2. <https://portal.e-lfh.org.uk/Component/Details/48394> 3. <https://portal.e-lfh.org.uk/Component/Details/48397> | 1) The aim of this session is to promote rational use of antibiotics in optimising treatment of patients with infections and reducing emergence of antibiotic resistance. It also highlights factors affecting the route of administration and duration of therapy   1. The aim of this session is to promote rational use of antibiotics in optimising treatment of patients with infections and reducing emergence of antibiotic resistance. Risks associated with antimicrobial use in patients who may have penicillin allergy will be explained. 2. The aim of this session is to promote rational use of antibiotics in optimising treatment of patients with infections and reducing emergence of antibiotic resistance. The risks of developing   Clostridium difficile will be explained. |
| 13b | Adherence and Concordance in Young People [130] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/328th839> | This session examines factors that influence the way young people take medicines in adolescence. |
| 13b | Paediatric prescribing principles [131] | RCPCH | <https://www.rcpch.ac.uk/resources/paediatric-prescribing-principles-online-learning> | This eLearning module is for all paediatricians, from trainee to consultant, and any health professionals with a role in prescribing medication to children and  young people |
| 13b | Managing patient expectations in out-of-hours primary care [132] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/693556> | This course will focus on how to manage patients' treatment expectations of common infections in out-of-hours primary  care. |

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| 14) Neonates |
| Key Capabilities / Knowledge |
| 1. Jaundice [including prolonged jaundice] 2. Feeding problems in new-borns 3. Cow’s Milk Protein allergy 4. Umbilical Granuloma 5. Common findings in new-borns - urates in urine, Per Vaginum (PV) bleeding, neonatal lactation, erythema toxicum 6. Worrying presentations |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 14a | Looking like Maggie Simpson [133] | RCEM | <https://www.rcemlearning.co.uk/foamed/looking-like-maggie-simpson/> | Managing jaundice in the neonate, what not to miss |
| 14a | Maggie Simpsons second audition [134] | RCEM | <https://www.rcemlearning.co.uk/foamed/maggie-simpsons-second-audition-prolonged-jaundice/> | Blog exploring prolonged jaundice |
| 14a | Neonatal jaundice [135] | East Midland Emergency medicine educational media | <https://em3.org.uk/foamed/11/11/2019/lightning-learning-neonatal-jaundice> | Short learning review on managing jaundice in neonates |
| 14a | Neonatal Jaundice[136] | Geeky medics | <https://geekymedics.com/neonatal-jaundice/> | Understanding neonatal jaundice |
| 14a | Jaundice in new born babies  [137] | NICE | <https://www.nice.org.uk/Guidance/CG98> | Guidelines – including prolonged jaundice |
| 14a, 14e | Neonatal nugget's part 1[138] | RCEM | <https://www.rcemlearning.co.uk/reference/neonatal-nuggets-part-1-skin-rashes-jaundice-lumps-and-bumps/> | Focusing on :   1. Benign skin conditions 2. physiological jaundice   Lumps and bumps" |
| 14b | infant feeding [139] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/14/1/2019/lightning-learning-infant-feeding> | Lightening learning on infant feeding |
| 14b | Infant feeding[140] | Primary Care Knowledge boost | <https://www.pckb.org/e/infant-feeding/> | Podcast on definitions, presentations and management of colic, gastro oesophageal reflux and reflux disease, lactose intolerance and cow's milk protein allergy. |
| 14b | Breast feeding for doctors[63] | Paediatric Foamed | <https://www.paediatricfoam.com/2018/09/breastfeeding-for-doctors-101-part-1/> | basic guide to breastfeeding |
| 14b | Feeding problems [141] | E-learning for  health | <https://portal.e-lfh.org.uk/Component/Details/550769> | feeding difficulties from birth to weaning |
| 14b, 14f | Bilious vomiting in neonates[142] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/7/11/2018/bilious-vomiting-in-neonates> | Lightening learning in the causes of bilious vomiting |
| 14b, 14c | Cry baby Cry [65] | Paediatric FOAMED | <https://www.paediatricfoam.com/2019/04/colic-cmpa-and-reflux/> | Learning on the ‘Big Three’ in infant crying  – that is to say CMPA and reflux. |

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| 14b, 14c,  14e | Neonatal nuggets part 2[143] | RCEM | <https://www.rcemlearning.co.uk/reference/neonatal-nuggets-part-2-tummy-troubles/> | Focusing on :  1. Expulsions from the upper GI tract 2.Infantile colic  3. Expulsions from the lower GI tract" |
| 14d | Funny umbilical stump [144] | DFTB | <https://dontforgetthebubbles.com/picture-quiz-funny-umbilical-stump/> | Picture quiz of umbilical granulomas |
| 14d | Something BRUE – ing[145] | Paediatric FOAMED | <https://www.paediatricfoam.com/2018/11/something-brue-ing/> | Assessment and management of a BRUE |
| 14e | Neonate with blood in the nappy [146] | RCEM | <https://www.rcemlearning.co.uk/foamed/neonate-with-blood-in-the-nappy-look-beyond-the-cracked-nipples/> | Case based learning on the baby with blood in its nappy |
| 14e | When weight loss is not a good thing [147] | RCEM | <https://www.rcemlearning.co.uk/foamed/when-weight-loss-isnt-a-good-thing-neonates-in-the-ed-growth-feeding/> | Assessing weight loss in neonates and common causes |
| 14e | Neonatal dermatology - benign conditions [148] | DFTB | <https://dontforgetthebubbles.com/neonatal-dermatology-the-benign-conditions/> | Short learning review on normal rashes in neonates |
| 14e | Neonatal dermatology - rashes not to ignore[149] | DFTB | <https://dontforgetthebubbles.com/neonatal-dermatology-the-rashes-you-shouldnt-ignore/> | Short learning review of worrying rashes in neonates |
| 14e | Blisters and pustules in neonates [150] | Dermnet NZ | <https://dermnetnz.org/topics/blisters-and-pustules-in-neonates> | This page describes vesiculobullous and pustular lesions in new-borns and their differentiating characteristics. |

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| 14e | Toxic erythema [151] | Dermnet NZ | <https://dermnetnz.org/topics/toxic-erythema-of-the-newborn> | Short learning on erythema toxicum |
| 14e | Neonatal Inspection and Examination [152] | E -learning for health | <https://portal.e-lfh.org.uk/Component/Details/550228th> | This session describes a comprehensive approach to the clinical assessment of a neonatal patient with a respiratory problem. It details what to include in a respiratory inspection and physical  examination. |
| 14f | Apparent Life-Threatening Event (ALTE)[153] | St Emylns | <https://www.stemlynsblog.org/alte-brue/> | Case based learning on a Brief Resolved Unexplained Event (BRUE) |
| 14f | ALTE [154] | NHS Greater Glasgow and Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-guidelines/emergency-medicine/brief-resolved-unexplained-event-or-brue-alte-guideline-update/> | Guidelines on BRUE |

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| 15) Ophthalmology |
| Key Capabilities / Knowledge |
| 1. Assess and manage eye trauma 2. Assess and manage the red eye 3. Assess and manage the eye with discharge |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 15a | Paediatric ophthalmology[155] | DFTB | <https://dontforgetthebubbles.com/cop-talk-template-title-siobhan-wren-dftb19/> | Video lecture on eye trauma and basic management |
| 15a, 15b,  14c | Visual acuity in kids [1156] | East Midland Emergency medicine  educational media | <https://em3.org.uk/foamed/27/5/2019/lightning-learning-visual-acuity-in-kids> | Lightening learning on assessing visual acuity in children |
| 15a, 15b,  15c | How to assess eyes and vision in infants and preschool  children [157] | British Medical Journal (BMJ) | <https://www.bmj.com/content/350/bmj.h1716> | Video on assessing visual acuity in children |
| 15b | Pediatric red eye [158] | PEDEMmorsels | <https://pedemmorsels.com/pediatric-red-eye/> | Overview of causes of red eye in children |
| 15b | Peri-orbital v orbital cellulitis [159] | DFTB | <https://dontforgetthebubbles.com/peri-orbital-v-orbital-cellulitis/> | Case based learning on peri orbital cellulitis |

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| 15b | Atraumatic red eye [160] | RCEM | <https://www.rcemlearning.co.uk/reference/atraumatic-red-eye/#1568194845112-79c32c14-ff73> | Management and diagnosis of the red eye ( not paediatric specific) |
| 15b | Peri – orbital cellulitis [161] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/7/5/2019/lightning-learning-orbital-cellulitis?rq=eye> | Overview of Peri orbital cellulitis in children |
| 15c | Infective conjunctivitis [162] | NICE | <https://cks.nice.org.uk/topics/conjunctivitis-infective/> | Guidelines on management of conjunctivitis |
| 15c | Sticky eyes [163] | DFTB | <https://dontforgetthebubbles.com/sticky-eyes/> | Short case-based learning on sticky eyes in  neonates |

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| 16) Pain assessment |
| Key Capabilities / Knowledge |
| 1. Know how to assess pain in children and young people - types of pain scores 2. Awareness of non-pharmacological and pharmacological methods to alleviate pain 3. Is aware of national targets for assessment of pain and analgesia administration |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 16a | Pain in children is different [164] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/429955> | This session describes the incidence, causes and effects of pain in infants, children and young people and the basic physiological mechanisms operating in  both acute and chronic pain. |
| 16a | Assessment of children’s pain[165] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/430005> | This session describes the assessment of pain in paediatric practice highlighting the different methodologies used when  assessing acute and chronic pain. |
| 16a | Acute pain children [166] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/430092> | This session describes the principles of delivering effective analgesic management to children in acute pain associated with ongoing illness, surgery, trauma or painful  procedures in a clinical setting |
| 16a | Pain assessment and tools [167] | NHS Highland | <https://tam.nhsh.scot/therapeutic-guidelines/therapeutic-guidelines/paediatrics/acute-pain-paediatrics/pain-assessment-and-tools-paediatric/> | Guidelines |
| 16a, 16b | Pain management [168] | RCPCH | <https://learning.rcpch.ac.uk/courses/pain-management/> | This eLearning course covers acute pain in neonates, children and young people; the biopsychosocial assessment of chronic pain; neuropathic pain conditions; psychological and physical therapies in pain management; pharmacology and prescribing in paediatric pain management;  and case studies |
| 16b | Pain Management in Emergency Department [169] | Alder Hey Children’s Hospital | <https://youtu.be/1g5WHbJGd8U> | Pain management in Emergency medicine - goes into detail about some methods that may not be used in UEC but covers assessment and management at a level  seen in UEC as well |
| 16b | Drug free management of young children’s pain [170] | Cochrane review | <https://pubmed.ncbi.nlm.nih.gov/26630545/> | Cochrane review of 63 randomised control trials and 23 methods on non- pharmacological management of pain |
| 16c | Paediatric pain and sedation [172] | St Emlyns blog | <https://www.stemlynsblog.org/paediatric-pain-and-sedation/> | Tips on managing paediatric pain |

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| 17) Psychosocial assessment |
| Key Capabilities / Knowledge |
| a) Demonstrates an awareness of psychosocial factors involved in caring for children and young people |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 17a | Adolescent Health programme [173] | E – learning for Health | Adolescent health programme via  <https://portal.e-lfh.org.uk/Component/Details/391281> | Module focusing on a number of areas specific to adolescents and their specific health and communication needs, including:   1. Health and illness 2. Healthy development 3. Legal Framework 4. Communication and consultation with young people 5. Health promotion and advocacy 6. Concordance/ Adherence 7. Sexual and reproductive health 8. Self-harm and common mental health problems 9. Substance use and misuse |
| 17a | Healthy child programme [174] | E learning for health | Healthy Child Programme Health Promotion via <https://portal.e-lfh.org.uk/Component/Details/391363> | Module on health promotion, including:   1. Obesity 2. Dental health 3. Injury Prevention |
| 17a | The Forgotten Tribe [176] | RCEM | <https://www.rcemlearning.co.uk/foamed/the-forgotten-tribe-iahw(2021)/> | A whistle stop tour of adolescent medicine as it applies to the ED and discuss some hints and tips on how to improve the ED experience for adolescents whilst also  increasing your confidence in supporting the needs of this sometimes-tricky age group. |
| 17a | Gillick Competence – a crash course [178] | DFTB | <https://dontforgetthebubbles.com/gillick-competence-crash-course/> | An overview of Gillick competence |
| 17a | Eating disorders in children and young people [179] | Paediatric FOAMed | <https://www.paediatricfoam.com/2017/11/eating-disorders-in-children-and-young-people/> | An overview of eating disorders |
| 17a | Self-harm getting the basics  right [180] | Paediatric  FOAMed | <https://www.paediatricfoam.com/2018/07/self-harm-getting-the-basics-right-in-caring-for-young-people/> | Assessing the young person presenting  with self-harm |
| 17a | Behavioural issues in children [181] | Paediatric  FOAMed | <https://www.paediatricfoam.com/2017/07/behavioural-issues-in-children/> | Managing children with behavioural issues |
| 17a | Paediatric guide to the  mental health act [183] | Alder Hey  Childrens Hospital | <https://youtu.be/Q_nJiFzfUzs> | Paediatric guide to the mental health act |
| 17a | Managing children with  behavioural issues [184] | Alder Hey  Childrens Hospital | <https://www.youtube.com/watch?v=XbL_UK78_J0> | Management of behavioural disturbance in  children |
| 17a | Guidelines for children presenting intoxicated [185] | NHS Greater Glasgow and Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-guidelines/child-protection/guideline-for-emergency-departments-minor-injury-units-and-receiving-units-where-a-child-or-young-person-presents-under-the-influence-of-alcohol-andor-drugs/> | Guidelines |
| 17a | HEADSSS assessment tool  [186] | PEM infographic | <https://www.peminfographics.com/infographics/headsss->  [assessment-tool](https://www.peminfographics.com/infographics/headsss-) | Infographic o HEADSSS assessment tool |

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| 18) Remote consultations |
| Key Capabilities / Knowledge |
| 1. Awareness of how to triage and identify red flags in remote consultation 2. Understand principles and safety in video consultations 3. Awareness of when and how to use remote consultations 4. Awareness of factors specific to remote consultations with children and young people |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 18a | Clinical Pathways remote assessment [187] | Healthier together | <https://www.what0-18.nhs.uk/professionals/health-visitors/clinical-pathways-remote-assessment> | Selection of remote assessment tools for  common presentations based on a traffic light system. Also includes training videos |
| 18a | Screening and action tools [188] | Sepsis trust | <https://sepsistrust.org/professional-resources/clinical-tools/> | Collection of telephone triaging tools |
| 18a | Safeguarding in Virtual Consultations in Primary Care [189] | Bath and North East Somerset, Swindon and  Wiltshire Clinical Commissioning Group (CCG) | <https://bsw.icb.nhs.uk/document/safeguarding-in-virtual-consultations-in-primary-care-final-v1-0/> | Guidance for safeguarding patients during virtual consultations |
| 18a | London Ambualnce Service (LAS) triage categories [190] | LAS | <https://www.youtube.com/watch?v=AxvbuhK_btM> | Video guidance on ambulance categories should you need to request one for your  patient |
| 18b, 18c | Principles for supporting high quality  consultations by video in general  practice during Covid-19[191] | NHS England | <https://www.england.nhs.uk/coronavirus/wp-content/uploads/sites/52/2020/03/C0479-principles-of-safe-video-consulting-in-general-practice-updated-29-may.pdf> | Guidance aimed at NHS general practice staff who are consulting via video with  Patients at home. |
| 18c | Remote consultation for acute cases [193] | Fourteen fish | <https://vimeo.com/587746398/12415345a1> | Video on how to perform a remote consultation |
| 18c, 18d | Top tips[194] | RCPCH | <https://www.yphsig.org.uk/resources-1/adolescent-healthcare/communication-skills/remote-consultation> | A guide to best practice when undertaking remote consultation with young people. |
| 18d | Principles for conducting virtual consultations with children and young people [195] | RCPCH | <https://www.rcpch.ac.uk/resources/principles-conducting-virtual-consultations-children-young-people> | Guidance on consulting virtually with children and young people to provide care in a way that is in their best interests, whilst protecting both from the risks  associated with virtual consultations. |
| 18d | Remote paediatrics [196] | Drs net | <https://open.spotify.com/episode/3N9nUzmkMMBrJQh3fIESdB> | Podcast looking at remote paediatric consultations, including tips and tricks, how to identify rashes remotely and  management of Covid -19 |

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| 19) Respiratory illness |
| Key Capabilities / Knowledge |
| 1. Is able to recognise the seriously ill child 2. Is aware of the diagnosis management of common childhood illnesses , such as asthma, Viral Induced Wheeze (VIW), LRTI, URTI, bronchiolitis, croup 3. Is aware of potentially life-threatening cause of Difficulty in Breathing (DIB), such as foreign body ingestion, epiglottitis 4. Is aware of the diagnosis and management of laryngomalacia |

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| Topic link | | Learning resource link/ Title | | Source | | Learning link | | Description | |
| 19a | | Basic Child assessment [95] | | Spotting the sick  child | | <https://spottingthesickchild.com> | | Basic assessment of the sick child, with  useful videos | |
| 19a | | Symptoms [95] | | Spotting the sick child | | <https://spottingthesickchild.com/videos/symptoms/> | | Assessment and examination of children presenting with common complaints, such as fever, respiratory  distress, including videos | |
| 19b | | Bronchiolitis in children [197] | | NICE | | <https://www.nice.org.uk/guidance/ng9> | | NICE guidelines | |
| 19b | | Asthma: diagnosis, monitoring and chronic  asthma management [198] | | NICE | | <https://www.nice.org.uk/guidance/ng80> | | NICE guidelines | |
| 19b | | Whooping cough [199] | | NICE | | <https://cks.nice.org.uk/topics/whooping-cough/> | | NICE guidelines | |
| 19b | | Pharmacological and Non- Pharmacological Management of Asthma in Children [200] | | E-learning for health | | <https://portal.e-lfh.org.uk/Component/Details/429774> | | This session provides an introduction to the pharmacological and non- pharmacological therapeutic options for the management of asthma in  children | |
| 19b | | Recognising and Managing Asthma Attacks in Children [201] | | E-learning for health | | <https://portal.e-lfh.org.uk/Component/Details/429777> | | This session provides an overview of asthma attacks in children including their initial assessment and management as well as recommendations for follow-up by an asthma-trained Health Care  Professional (HCP) | |
| 19b | | Supporting Self-Management in Asthma in Children [202] | | E-learning for health | | <https://portal.e-lfh.org.uk/Component/Details/429780> | | This session introduces the concept of agreed self-management for children with asthma and explores the role of HCP’s in supporting children and their families by educating them and working with  them to develop Personalised Asthma Action Plans | |
| 19b | | Asthma - History and Examination[203] | | E - Learning for health | | <https://portal.e-lfh.org.uk/Component/Details/550231> | | This e- learning module covers the non-acute clinical presentation of asthma, history taking and clinical  examination | |
| 19b | | Asthma - Investigation, Acute Presentation and Differential  Diagnosis [204] | | E-Learning for health | | <https://portal.e-lfh.org.uk/Component/Details/550234> | | It includes investigations and differential diagnosis. It also contains  videos of cases showing acute clinical presentation and assessment of  severity. | |
| 19b | | Pneumonia [205] | | E-Learning for health | | <https://portal.e-lfh.org.uk/Component/Details/550237> | | This session covers paediatric pneumonia, including the recognition of clinical features, aetiology and  treatment. | |
| 19b | | Bronchiolitis [206] | | E-Learning for health | | <https://portal.e-lfh.org.uk/Component/Details/550217> | | This session covers bronchiolitis,  including its aetiology, natural history, clinical features and treatment. | |
| 19b | | The Child with Respiratory Distress [207] | | E-Learning for health | | <https://portal.e-lfh.org.uk/Component/Details/556993> | | This session will investigate how to differentiate between wheezing and other forms of respiratory distress. Later, it will identify the most common causes of respiratory distress in children and offer guidance on how to determine if a child in respiratory  distress needs urgent care. | |
| 19b | | Neonatal Inspection and Examination [208] | | E -learning for health | | <https://portal.e-lfh.org.uk/Component/Details/550228> | | This session describes a comprehensive approach to the clinical assessment of a neonatal patient with a respiratory problem. It details what to include in a respiratory inspection  and physical examination. | |
| 19b | | Pneumonia module [209] | | DFTB | | <https://dontforgetthebubbles.com/pneumonia-module/> | | Explore pneumonia with cases and examples, also an optional SIM Module  for team learning | |
| 19b | | Asthma module[210] | | DFTB | | <https://dontforgetthebubbles.com/asthma-module> | | Explore asthma with cases and examples, also an optional SIM Module  for team learning | |
| 19b | | British Thoracic Society (BTS) asthma guidelines [224] | | BTS | | <https://www.medscape.co.uk/viewarticle/british-guideline-diagnosis-and-pharmacological-management-2022a10013o0> | | Guidelines | |
| 19b | | Tuberculosis [289] | | NICE | | <https://www.nice.org.uk/guidance/ng33/resources/tuberculosis-pdf-1837390683589> | | Guidelines | |
| 19b | | Bronchiolitis [89] | | DFTB | | <https://dontforgetthebubbles.com/bronchiolitis-module/> | | Case discussions covering the key points and evidence, grey areas, diagnostic dilemmas; advanced  management and escalation | |
| 19b | | Safety netting for  bronchiolitis [100] | | DFTB | | <https://dontforgetthebubbles.com/safety-netting-for-bronchiolitis/> | | Safety netting families on discharge  with bronchiolitis | |
| 19b | | Croup [211] | | RCEM | | <https://www.rcemlearning.co.uk/reference/croup/> | | Management of croup including  potential differentials of stridor | |
| 19b | | Coughing, wheezing and stridulous children [212] | | RCEM | | <https://www.rcemlearning.co.uk/foamed/coughing-wheezy-and-stridulous-children/> | | Children with noisy or difficult breathing often present to the Emergency Department (ED). The acuity of these patients varies, but any of the conditions that cause respiratory symptoms can be life threatening. This article will give key information about each presentation and condition, while signposting  further information that you can read for more in depth learning. | |
| 19b | | Children’s Acute Transport Service (CATS) webinar bronchiolitis  [213] | | Great Ormond Street Hospital (GOSH) | | <https://youtu.be/kJlF1u_o-L4> | | This webinar covers all aspects of the  management of bronchiolitis. | |
| 19b | | Croup [89] | | East Midland Emergency medicine educational  media | | <https://em3.org.uk/foamed/18/9/2017/lightning-learning-croup> | | Lightening learning on croup | |
| 19b | | Whooping cough [90] | | East Midland Emergency medicine educational  media | | <https://em3.org.uk/foamed/30/9/2019/lightning-learning-whooping-cough> | | Lightening learning on Whooping cough | |
| 19b | | Paediatrics for primary care - why doesn’t bronchiolitis get  better with inhalers [214] | | GP Paeds tips | | <https://gppaedstips.blogspot.com/2016/10/why-bronchiolitis-doesnt-get-better.html> | | Article looking at management of bronchiolitis | |
| 19b | | Community acquired  pneumonia [91] | | Paediatric  Foamed | | <https://www.paediatricfoam.com/2018/08/community-acquired-pneumonia-an-interactive-case/> | | Case based learning | |
| 19b | | VIW and asthma[215] | | Geeky medics | | <https://geekymedics.com/viral-induced-wheeze-and-asthma/> | | Overview of wheeze in children | |
| 19b | | Croup [216] | | Geeky medics | | <https://geekymedics.com/croup/> | | Overview of croup | |
| 19c | | Bacterial tracheitis [288] | | PED Morsels | | <https://pedemmorsels.com/bacterial-tracheitis/> | | Article on bacterial tracheitis | |
| 19c | | Stridor [218] | | E-Learning for health | | <https://portal.e-lfh.org.uk/Component/Details/550240> | | This session covers stridor, including its presentation, pathophysiology,  possible causes and treatments. | |

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| 19c | Inhaled Foreign Body[219] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/317956> | This session reviews the role of imaging in suspected inhalation of a  foreign body in children |
| 19c | FB ingestions [222] | EM in 5 minutes | <https://emin5.com/2014/02/17/foreign-body-ingestions/> | US video on ingested FB |
| 19c | Aspiration of Foreign body [223] | NHS Greater Glasgow and Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-guidelines/emergency-medicine/aspiration-of-a-foreign-body/> | Guidelines |
| 19d | Laryngomalacia [225] | Paeds portals | <http://paedsportal.com/referrals/pre-referral/laryngomalacia> | Recognition and management of  laryngomalacia |
| 19d | Laryngomalacia – best  practice [226] | BMJ | <https://bestpractice.bmj.com/topics/en-gb/754> | Recognition and management of  laryngomalacia |

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| 20) Safeguarding |
| Key Capabilities / Knowledge |
| a) Is aware of NICE guidance on child abuse and maltreatment. |

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| 1. Demonstrates an awareness of the categories of abuse, physical, emotional, sexual, neglect 2. Recognises the risk factors which contribute to vulnerability and risk of abuse 3. Awareness of recurrent attendances as potential concerning presentation 4. Understand common injuries and fractures that may be seen in physical abuse and an awareness of age and mobility appropriate injuries 5. Understand the how a child may present who is at risk of or is being neglected / emotionally abused 6. Recognise signs and symptoms of sexual abuse / grooming 7. Demonstrates an awareness of interpersonal violence amongst young people 8. Demonstrates an awareness of Mental health conditions effecting children and young people and how they may present |

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| Topic link | | Learning resource link/ Title | | Source | | Learning link | | Description | |
| 20a | | Child maltreatment [227] | | NICE | | <https://www.nice.org.uk/Guidance/CG89> | | NICE guidelines | |
| 20a | | Child abuse and neglect [228] | | NICE | | <https://www.nice.org.uk/guidance/ng76> | | NICE guidelines | |
| 20b | | Modern slavery[229] | | E- Learning for  health | | <https://portal.e-lfh.org.uk/Component/Details/75005> | | modern slavery – an overview | |
| 20b | | Safeguarding module [230] | | DFTB | | <https://dontforgetthebubbles.com/safeguarding-module/> | | Case discussions covering the key points and evidence, grey areas, diagnostic dilemmas; advanced management and  escalation | |
| 20b | | Emotional abuse and neglect [231] | | RCPCH | | <https://www.rcpch.ac.uk/resources/emotional-abuse-emotional-neglect-online-learning> | | This eLearning module is intended to support you to identify the key features of emotional abuse and emotional neglect, and how these should be managed using a  multi-agency approach. | |
| 20b | | Exploitation of children and young people [232] | | RCPCH | | <https://www.rcpch.ac.uk/resources/exploitation-children-young-people-online-learning> | | This eLearning module is intended to support a multi-agency audience to identify the features of exploitation of vulnerable children in a range of settings,  and how these should be managed | |
| 20b | | Safeguarding level 1[233] | | E- Learning for health | | <https://portal.e-lfh.org.uk/Component/Details/577676> | | This e-learning session meets the statutory and mandatory training requirements and learning outcomes for Safeguarding Children Level 1 in the UK Core Skills  Training Framework | |
| 20b, 20c | | Safeguarding level 2[234] | | E- Learning for health | | <https://portal.e-lfh.org.uk/Component/Details/577661> | | This session covers the statutory and mandatory training for Safeguarding Children Level 2. It has been designed to meet the relevant learning outcomes in the  UK Core Skills Training Framework. | |
| 20b, 20c,  20f | | Safeguarding level 3235] | | E- Learning for health | | 1. <https://portal.e-lfh.org.uk/Component/Details/614492> 2. <https://portal.e-lfh.org.uk/Component/Details/614539> 3. <https://portal.e-lfh.org.uk/Component/Details/614542> 4. <http://portal.e-lfh.org.uk/Component/Details/614489> 5. <https://portal.e-lfh.org.uk/Component/Details/614495> 6. <https://portal.e-lfh.org.uk/Component/Details/614594> 7. <https://portal.e-lfh.org.uk/Component/Details/674460> 8. <https://portal.e-lfh.org.uk/Component/Details/688868> | | 1. This introduction sets the scene for six further Level 3 Safeguarding Children and Young People sessions. 2. This session will consider the role of clinical staff in identifying factors in parents or carers that increase the risk of child maltreatment. 3. This session will consider the management of an unexplained injury in a child, where there is a disagreement between professionals 4. This session will consider the management of disabled children who are at increased risk of abuse and neglect. 5. This session will consider approaches to managing a case in which Fabricated or Induced Illness (FII) is suspected 6. This session follows the case of an intoxicated teenager presenting to hospital a). Allegations of sexual assault develop and concerns regarding risk of sexual exploitation emerge. Identification and management of the safeguarding issues are explored. 7. This session provides an overview of some of the most pressing international and local challenges in child protection including: Adverse Childhood Experiences (ACEs), child trafficking and county lines, gang- based exploitation, missing children, forced marriage and honour-based violence. 8. This session will help you to recognise the legislation related to looked after children and be confident in your knowledge of   consent. | |

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| 20d | New guidance on perplexing presentations and fabricated or induced illness in children[286] | RCPCH | <https://childprotection.rcpch.ac.uk/resources/perplexing-presentations-and-fii/> | Guidelines |
| 20e | Physical abuse imaging [237] | E-Learning for health | <https://portal.e-lfh.org.uk/Component/Details/357362> | This session provides an overview of the skeletal abnormalities that are seen on  radiographs in the physically abused child. |
| 20e | Abusive head injuries [238] | Northern  paediatrics | <https://www.youtube.com/watch?v=dCBSgff7rbU> | Update on abusive children’s head injuries |
| 20g | Child sexual exploitation [239] | E - Learning for health | <https://portal.e-lfh.org.uk/Component/Details/393357> | The Child Sexual Exploitation e-learning resource is designed to help healthcare staff in preventing, identifying and responding to child sexual exploitation. |
| 20g | Female genital mutilation[240] | E - Learning for health | 1. <https://portal.e-lfh.org.uk/Component/Details/390852> 2. <https://portal.e-lfh.org.uk/Component/Details/395326> 3. <https://portal.e-lfh.org.uk/Component/Details/390861> 4. <https://portal.e-lfh.org.uk/Component/Details/443497> | 1. This session aims to give a brief overview of Female Genital Mutilation (FGM) 2. This session provides legal and safeguarding information that a health professional needs when dealing with cases of FGM 3. This session looks at the issues of FGM during the early years, childhood and adolescence, including prevention, health promotion, care and support 4. This session aims to provide an overview of what is currently understood about the   psychological effects of FGM |
| 20g | Child sexual exploitation  [241] | Paediatric  FOAMed | <https://www.paediatricfoam.com/2017/02/child-sexual-exploitation-cse/> | An overview of child sexual exploitation |
| 20h | Adolescent relationship abuse [242] | East Midland Emergency  Medicine media | <https://em3.org.uk/foamed/25/10/2019/adolescent-relationship-abuse> | An overview of violence in teenage and young people’s relationships |
| 20h | Honour based violence [243] | East Midland Emergency  Medicine media | <https://em3.org.uk/foamed/14/10/2019/lightning-learning-honour-based-violence> | An overview of honour-based violence |
| 20i | Child and adolescent mental health[175] | RCGP | <https://elearning.rcgp.org.uk/course/view.php?id=111> | This course considers consultations in primary care with young people with mental health problems. Common presentations are considered, including physical symptoms, and the recognition of the existence of a mental health problem is discussed. Strategies are provided which can help consult effectively with a young person and engage them in taking control  of their own wellbeing. |

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| 21) Skin Conditions |
| Key Capabilities / Knowledge |
| 1. Is aware of a variety of viral exanthems (rash) and related infections 2. Demonstrates an awareness of common presenting rashes on children and young people   a. For example, eczema, seborrheic dermatitis, impetigo, fungal infections, acne   1. Is aware of common neonatal skin issues, such as erythema toxicum, birth marks, milia 2. Recognition of purpura and its cause 3. Recognition of bites and infestations 4. Causes and treatment of pruritus 5. Recognises rashes associated with serious systemic conditions 6. Aware of notifiable diseases, such as measles and how to refer 7. Demonstrates an awareness of management of cellulitis |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 21a | Common Childhood Exanthums[244] | E - Learning for health | <https://portal.e-lfh.org.uk/Component/Details/426185> | This session describes the most common childhood exanthums that present to emergency departments. |
| 21a | Common rashes module [245] | DFTB | <https://dontforgetthebubbles.com/common-rashes-module/> | Case discussions covering the key points and evidence, grey areas, diagnostic dilemmas; advanced management and  escalation |
| 21a | Common Childhood  Exanthums[246] | RCEM Learning | <https://www.rcemlearning.co.uk/reference/common-childhood-exanthems/> | Assessing Paediatric rashes with examples  and discussions of common rashes |
| 21a | Molluscum contagiosum  [247] | Dermnet NZ | <https://dermnetnz.org/topics/molluscum-contagiosum> | Learning module of molluscum  contagiosum |
| 21a | Herpes zoster[248] | Dermnet NZ | <https://dermnetnz.org/topics/herpes-zoster> | Learning module of herpes zoster |
| 21a | Specific viral exanthums[249] | Dermnet NZ | <https://dermnetnz.org/cme/viral-infections/specific-viral-exanthems> | Learning module of viral rashes |
| 21a | Nonspecific viral exanthums[250] | Dermnet NZ | <https://dermnetnz.org/cme/viral-infections/nonspecific-viral-exanthems> | Learning module of viral rashes |
| 21a | Tinea [251] | Dermnet NZ | <https://dermnetnz.org/topics/tinea-corporis> | Learning module on tinea |

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| 21a | Paediatrics for Paramedics > Childhood Rashes [253] | E - Learning for health | <https://portal.e-lfh.org.uk/Component/Details/522708> | This session will explore how to classify childhood rashes and identify the conditions that most commonly result in the development of childhood rashes.  Later, it will consider how to assess a child presenting with a rash and identify the circumstances under which emergency  treatment is required. |
| 21a, 21b, | Skin deep [254] | DFTB | <https://dftbskindeep.com/> | Searchable photographic library of skin conditions, including images on a range of  skin colours |
| 21a, 20h | Scarlet fever [255] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/11/2/2019/lightning-learning-scarlet-fever> | Lightening learning on Scarlet fever |
| 21a | Chicken Pox [256] | NHS Greater  Glasgow and Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-guidelines/infectious-disease/varicella-zoster-infection-chickenpox-management-in-children/> | Guidelines |
| 21a, 20h | Rubella [257] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/29/7/2019/lightning-learning-rubella?rq=rubella> | Lightening learning on Rubella |
| 21a, 20h | Measles [258] | EM in 5 minutes | <https://emin5.com/2018/12/10/measles/> | US video on measles |
| 21b | Dermatitis overview [259] | Dermnet NZ | <https://dermnetnz.org/topics/dermatitis> | Learning module of dermatitis |
| 21b | Atopic Eczema management [260] | NHS Greater Glasgow and  Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-guidelines/dermatology/management-of-atopic-eczema-in-children/> | Guidelines |
| 21c | Neonatal dermatology -  benign conditions [148] | DFTB | <https://dontforgetthebubbles.com/neonatal-dermatology/> | Short learning review on normal rashes of  neonates |
| 21c | Neonatal dermatology -  rashes not to ignore [149] | DFTB | <https://dontforgetthebubbles.com/neonatal-dermatology/> | Short learning review of worrying rashes in  neonates |
| 21c | Blisters and pustules in neonates[150] | Dermnet NZ | <https://dermnetnz.org/topics/blisters-and-pustules-in-neonates> | This page describes vesiculobullous and pustular lesions in new-borns and their  differentiating characteristics. |
| 21c | Toxic erythema [151] | Dermnet NZ | <https://dermnetnz.org/topics/toxic-erythema-of-the-newborn> | Short learning on erythema toxicum |
| 21c | Mongolian blue spots [262] | Dermnet NZ | <https://dermnetnz.org/topics/lumbosacral-dermal-melanocytosis> | Short learning on Mongolian blue spots |
| 21c | Strawberry nevus [263] | Dermnet NZ | <https://dermnetnz.org/topics/infantile-haemangioma-definition-and-pathogenesis> | Short learning on strawberry Nevus |

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| 21d | Henoch-Schonlein Purpura (HSP) [264] | Alder Hey  children’s hospital | <https://youtu.be/kb6yqRytfAI> | Webinar on HSP |
| 21d | Meningococcal Meningitis and Sepsis  Guidance Notes [265] | Meningitis research  foundation | <https://www.meningitis.org/getmedia/cf777153-9427-4464-89e2-fb58199174b6/gp_booklet-UK-sept-16> | Guidelines on managing meningitis including exploring associated rashes |
| 21d | Management of children with a non-blanching rash [266] | NHS Greater Glasgow and Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-guidelines/emergency-medicine/management-of-the-child-with-a-non-blanching-rash-nbr-ie-petechiae-purpura-ecchymoses/> | Guidelines on managing a non-blanching rash |
| 21d, 21g | HSP [267] | Dermnet NZ | <https://dermnetnz.org/topics/henoch-schoenlein-purpura> | Learning module on HSP |
| 21e | Scabies [268] | Dermnet NZ | <https://dermnetnz.org/topics/scabies> | Short learning on scabies |
| 21e | Insect bites and stings [269] | Dermnet NZ | <https://dermnetnz.org/cme/arthropods/insect-bites-and-stings> | Short learning on insect bites and stings |
| 21f | Pruritus [270] | Dermnet NZ | <https://dermnetnz.org/topics/pruritus> | Short learning on puritis |
| 21f | Urticaria not associated with Anaphylaxis [271] | NHS Greater Glasgow and Clyde | <https://www.clinicalguidelines.scot.nhs.uk/nhsggc-guidelines/nhsggc-guidelines/emergency-medicine/urticaria-not-associated-with-anaphylaxis-management-in-children/> | Guidelines |
| 21g | Kawasakis disease [97] | East Midland Emergency medicine educational  media | <https://em3.org.uk/foamed/7/1/2019/lightning-learning-kawasaki-disease?rq=kawasaki> | Lightening learning on Kawasakis disease |
| 21g | Kawasakis disease[98] | Paediatric FOAMED | <https://www.paediatricfoam.com/2017/06/kawasaki-disease-pearls-and-pitfalls/> | Leaning module on Kawasakis |
| 21i | Cellulitis [272] | NICE | <https://cks.nice.org.uk/topics/cellulitis-acute/> | Guidelines |
| 21i | Peri - orbital cellulitis [273] | Peadiatric pearls | <https://www.paediatricpearls.co.uk/periorbital-and-orbital-cellulitis-in-children/> | Examination and management of cellulitis to the orbit |

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| 21) Vomiting and diarrhoea |
| Key Capabilities / Knowledge |
| 1. Is able to assess dehydration in children and young people 2. Is aware of the NICE guidelines on gastroenteritis   Is aware of common cause of vomiting and diarrhoea in children and young people |

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| Topic link | Learning resource link/ Title | Source | Learning link | Description |
| 22a | Assessing dehydration in children [279] | RCEM | <https://www.rcemlearning.co.uk/foamed/assessing-dehydration-in-children/> | Blog on assessing dehydration in children |
| 22a | Diabetes [280] | E - Learning for health | <https://portal.e-lfh.org.uk/Component/Details/594746> | This session will investigate the pathophysiology of diabetes mellitus and identify the symptoms of diabetes in  children. |
| 22a | Gastroenteritis [281] | RCEM | <https://www.rcemlearning.co.uk/reference/gastroenteritis-in-children-under-5-years-of-age/> | Evidence based approach to assessment  and management of gastroenteritis |
| 22a, 22c | The vomiting child[282] | E - Learning for health | <https://portal.e-lfh.org.uk/Component/Details/594710> | This session will investigate the pathophysiology of vomiting and consider the causes of vomiting in children. Later, it will explore the issues surrounding the treatment of vomiting in children, including how to recognise when a child is dehydrated and the role of antiemetic  medications. |
| 22b | Diarrhoea and vomiting caused by gastroenteritis  [283] | NICE | <https://www.nice.org.uk/guidance/cg84> | NICE Guidelines |

# Learning Resources Glossary

An overview of the resources used within this document. All of these resources are free, some require registration.

## 2 Paeds in a pod

Podcast from the Department of Paediatrics at the Royal Derby Hospital aimed at health care professionals new to paediatrics or those who occasionally care for children as part of a wider healthcare role.

## Alder Hey Hospital

Childrens hospital based in Liverpool that provides care, education and research into sick children

## Bath and North East Somerset, Swindon and Wiltshire Clinical Commissioning Group

Local Clinical Commissioning Group

## British Burns Association

Not for profit charity supporting and promoting burn care within the UK and Ireland, its core aims include education and research into burn care, treatment and prevention.

## British Medical Journal

British based journal that aims to improve sharing of research and look to improve clinical education and learning. Available on – line it also has an e learning section that requires a signup fee.

## British Society for Paediatric Dentistry

Society aiming to improve [paediatric oral care through education and research

## British Thoracic Society

Society aiming to improve care for people with lung disease and help to educate those providing it, it also provides guidelines on management of common conditions

## Cochrane Library

A database of independent evidence including systematic review and clinical trials

## CPD Me

Online website and app that hosts a variety of webinars on various topics. Access is free and certificates can be requested at a small cost

## DermNet NZ

New Zealand based resource of skin conditions. It includes a library of images, causes, features, differential and management of a wide range of dermatological presentations.

Don’t Forget the Bubbles

Blog providing information, case based learning and other resources specific to paediatric medicine and health.

## Drs Net UK

Website looking at education, CPD and providing a library of resources and journals

## E- Learning for Health

A selection of e-learning resources for healthcare workers, working alongside multiple organisations including Royal colleges, NHS England and Public Health England

## East Midland Emergency medicine educational media

Multi-professional education managed by The Leicester Royal Infirmary Emergency Department, linked to specific curriculums.

## EB medicine

Range of podcasts and tips on emergency medicine

## EM in 5 minutes

US based site hosting range of 5 minute video lectures relating to emergency medicine

## Fourteenfish

Appraisal tool with links to educational videos

## GeekyMedics

Collection of free resources aimed at medical students including OSCE prep, revision notes and clinical skills

## GP learning on line

GP based resources exploring primary care presentations, highlighting red flags for many presentations

## GP Paeds Tips

Aimed at primary care clinicians, providing tips and information about child health care.

## Great Ormond Street Hospital

Renowned Childrens hospital which also provides learning resources aimed at all medical professionals working with children.

## Healthier together

Collaboration between parents and Wessex healthcare providers, looking at common pathways, improving information sharing and communication.

International Association of Dental Trauma

Organization aiming to promote optimal prevention, diagnosis and treatment of dental injuries

## Life in the Fast Lane

Emergency medicine and critical care medical education blog.

## London Ambulance Service

London’s emergency ambulance service

## London and South East England Burns Network

One of four regional services specialising in treatment and advice on burns management

## Meningitis Research foundation

Charity promoting early recognition and treatment of meningitis

## Mersey Burns App

Free clinical tool for calculating burn area percentages

## Mind the Bleep

Online learning platform aimed at FY1’s with a variety of topics and learning resources

## National Health Service England

Organisation driven to better support the NHS to deliver improved care for patients

## National Institute for Health and Clinical Excellence

Institute that works to provide evidence based guidelines, ensure and develop quality standards

## NHS Greater Glasgow and Clyde / NHS Highlands

A reference source for staff on managing common conditions, based in Scotland but links to and ties in to national guidelines.

## Northern Paediatrics

Series of educational presented by the team from the Great Northern Childrens Hospital

## North Thames Paediatric Network

A network of providers of paediatric services across the North London region, providing a forum for these providers to improve the efficiency and effectiveness of service provision, develop sustainable pathways of care for specialist paediatric services.

## Paediatric EM BlogSpot

Collection of resources, curriculum based for Paediatric Emergency medicine trainees

## Paediatric FOAMED

Free resource with a large collection of common paediatric presentations

## Paeds Portals

Paediatric resources relevant to care of children

## Patient Info

A directory of evidence-based clinical information for clinicians and patients

## PED Morsels

US based site exploring a variety of paediatric presentations and there management

## Paediatric Emergency Playbook

US site complied by an emergency clinician looking at teaching and de mystifying common paediatric presentations

## Paediatric Pearls

This site is aimed at supporting the education and development of health professionals working with children. Resources are collated by a general Paediatric Consultant

## Paediatric Intensive Care Society

A multidisciplinary forum for those involved and interested in paediatric intensive care, with a focus including education and guidelines.

## PEM infographics

Collection of infographics on paediatric presentations from an MDT across the UK

## Primary Care Knowledge boost

Podcasts created and collated by UK specialists aiming to improve the confidence and knowledge of primary care clinicians

## Royal Childrens Hospital Melbourne

Australian Childrens hospital which provides a variety of guidelines and resources

## Royal College of Emergency Medicine

Royal college working to advance education and research in Emergency Medicine, provides e-learning modules and blogs

## Royal College of General Practitioners

Professional body for GP’s within the UK. The site has links to online learning and guidelines

## Royal College Paediatrics and Child Health

Professional body for paediatricians, provides links to paediatric specific education resources

## Sepsis Trust

Charity working to promote recognition of sepsis and improve patient outcomes

## Spotting the Sick Child

Interactive tool commissioned by the Department of Health and Health Education England. Looks to support and educate health care professional in assessment and recognition of the sick child.

## St Emylns

Resource managed by a team of emergency and critical care specialists. Resources are based around evidence based medicine and clinical excellence.

## Trauma Care

Webinar based learning on trauma care

## UpToDate

Evidence based resource, clinical topics are collated and reviewed into topic summaries

## We Can Talk

Online learning resource exploring mental health co-produced with young people who use services, hospital staff and mental health experts.

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