Monthly paediatric update newsletter for all health professionals working with children – put together by Dr Julia Thomson, Paediatric Consultant at Homerton University Hospital, London, UK. Housed at www.paediatricpearls.co.uk where comments and requests are welcome!

Human and animal bites: antimicrobial prescribing.

NICE guideline [NG184] November 2020



Bruising and torn skin from a dog bite

Elliptical or circular human teeth marks



Antibiotic prophylaxis for an uninfected bite			
Type of bite	Bite has not broken the skin	Bite has broken the skin but not drawn blood	Bite has broken the skin and drawn blood
Human bite	Do not offer antibiotics	Consider antibiotics if it is in a high-risk area or person at high risk	Offer antibiotics
Cat bite	Do not offer antibiotics	Consider antibiotics if the wound could be deep	Offer antibiotics
Dog or other traditional pet bite	Do not offer antibiotics	Do not offer antibiotics	Offer antibiotics if it has caused considerable, deep tissue damage or is visibly contaminated (for example, with dirt or a tooth) Consider antibiotics if it is in a high-risk area or person at high risk

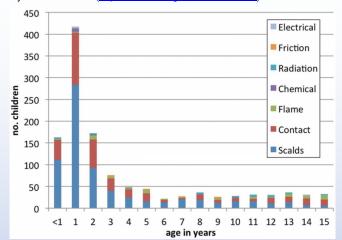
High-risk areas include the hands, feet, face, genitals, skin overlying cartilaginous structures or an area of poor circulation People at high risk include those at risk of a serious wound infection because of a co-morbidity (such as diabetes, Children 1 month to 12 years: coamoxiclav or cotrimoxazole if penicillin allergic.

Older children and adults: coamoxiclav or doxycycline and metronidazole if penicillin allergic

https://www.nice. org.uk/quidance/n g184/resources/vi sual-summary-pdf-8897023117

Hot drinks are the leading cause of children's burns in the UK

30 babies and toddlers go to hospital with a hot drink burn in the UK every day, and only 1 in 4 of these children have received the correct first aid when they arrive at the ED (https://safetea.org.uk/about-safetea/).



https://safetea.org.uk/first-aid/ has excellent advice and video for parents on preventing and treating burns. No toothpaste, butter, honey or ice in sight. Just 20 minutes of cool running water, call for help and cover with cling film.

Can you display the video in your waiting room?



FROM THE FRONT LINE: DKA in children with a high BMI

Current BSPED guideline for the management of children with DKA (April 2020): https://www.bsped.org.uk/media/1798/bsped-dka-guideline-2020.pdf
The main changes from the previous guideline are detailed at https://www.paediatricpearls.co.uk/wp-content/uploads/2020/04/April-2020.pdf.

The DKA calculator IS ON A SEPARATE WEBSITE: https://www.dka-calculator.co.uk/ - an excellent tool which fills in all the boxes for you to work out the fluids for a child with diabetic ketoacidosis.

Just before Christmas, we had a new presentation of type 1 diabetes in a 9-year-old weighing 68KGs.

The first section of the BSPED guideline says "A maximum weight of 80kg should be used for the calculation of fluid replacement and deficit as this ensures that excessive volumes of fluids are not given" but that is not the end of the story. Hidden on page 8 is a recommendation that "consideration be given to using a maximum weight of 80kg or 97th centile weight for age (whichever is lower) when calculating both deficit and maintenance requirements." The DKA calculator reminds you of this when you try to fill in the weight of a significantly overweight child. For our patient, the 97th Centile for weight was (see RCPCH growth charts) 40kgs – a lot less than his actual 68kgs.

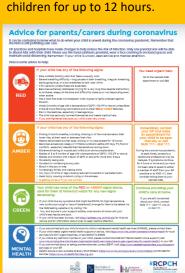
A salutary reminder from the BPSED of the importance of fluid prescriptions:

Remember, children in DKA can die from:

Cerebral oedema This is unpredictable, occurs more frequently in younger children and newly diagnosed diabetes and has a mortality of around 25%. The causes are not known and evolution of cerebral oedema can be unpredictable.

Hypokalaemia This is preventable with careful monitoring and management Aspiration pneumonia Use a naso-gastric tube if semi-conscious or unconscious Inadequate resuscitation It is important to ensure that children with DKA receive adequate resuscitation if they are shocked. Inadequate resuscitation increases the risk of brain injury. Cerebral perfusion is influenced both by the circulatory perfusion pressure (blood pressure) and the intracranial pressure in incipient cerebral oedema.

In common with many other hospitals in London, we have lost our paediatric ward again to the adult services because of the number of adult in-patients with Covid-19 at the Homerton. Our paediatric ED and urgent clinics are open and we have a makeshift facility for observing



The Royal College of Paediatrics and Child Health (RCPCH) has produced posters for parents and carers of children of all ages, in all the UK nations, on urgent care during coronavirus.

Please display them on your websites and in your emergency departments and hubs.

Coronavirus is a mild illness for most children; if you are assessing an unwell child with a fever and cough, think "sepsis" before "covid" please and don't delay decisions/action to wait for a covid swab result.