# Paediatric Pearls

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## Previous editions are all available at <u>www.paediatricpearls.co.uk</u>

OF **RESOURCES FOR PARENTS AND SCHOOLS, RECOGNITION** OF SEE PREVIOUS MONTHS FOR THE STEPWISE TREATMENT **ASTHMA, ASSESSMENT AND CATEGORISATION** ASTHMA. BTS/SIGN 2014: **IKELIHOOD OF** STHMA OF

#### Asthma Odds and Ends from 2014 guideline: NEWSLETTER. Moderate Able to talk in sentences asthma SpO. ≥92% Stepping down: regular review of children on preventative PEF ≥50% best or predicted treatment is important. Once asthma is under control, reduce Heart rate ≤140/min in children aged 2–5 years 2016 inhaled steroid dose if possible by 25-50% every 3 months. ≤125/min in children >5 years Some children can be stepped down during their "good" FEB Respiratory rate ≤40/min in children aged 2-5 years season. ≤30/min in children >5 years THE Doubling the dose of inhaled corticosteroids during asthma Can't complete sentences in one breath or too breathless to talk Acute severe Z exacerbations is of unproven value asthma or feed OUTLINED SpO\_<92% There is some limited evidence that a leukotriene inhibitor PEF 33-50% best or predicted may be helpful in children at the start of an asthma Heart rate >140/min in children aged 2-5 years exacerbation. Continue for 7 days. WAS >125/min in children aged >5 years Respiratory rate >40/min in children aged 2-5 years Intranasal steroids are effective in the treatment of rhinitis but there is little evidence (unfortunately, as I thought >30/min in children aged aged >5 years otherwise...) that this necessarily improves asthma control. Life-threatening Any one of the following in a child with severe asthma asthma **Clinical signs** Measurements SpO, <92% Silent chest In ACUTE EXACERBATIONS the following MUST be formally observed (because \*\*): PEF <33% best or predicted Cyanosis Pulse rate (increasing tachycardia generally denotes worsening asthma; a fall in heart rate in Poor respiratory effort life-threatening asthma is a pre-terminal event) Hypotension Respiratory rate and degree of breathlessness (ie too breathless to complete sentences in Exhaustion one breath or to feed) Confusion Use of accessory muscles of respiration (best noted by palpation of neck muscles) Amount of wheezing (which might become biphasic or less apparent with increasing airways \*\* Acutely wheezy children do not always appear distressed

obstruction) Degree of agitation and conscious level (always give calm reassurance)

Most children referred via the 2 week wait pathway do not turn out to have cancer but we did have one this year - a lump in the nose that turned out to be a rhabdomyosarcoma. Mr Sunil Sharma explains when ENT need to be involved with lumps and bumps in children, concentrating mainly on neck lumps:

- Paediatric cervical lymphadenopathy is common, usually only requiring parental reassurance and monitoring
- Ultrasound is the most useful first-line imaging modality for paediatric neck masses not thought to be benign

Any paediatric cervical lymph nodes that are large (>2cm), persistent, supraclavicular in site, associated with any suspicious features on ultrasound, or any suspicious features on history and examination, should be referred to ENT for consideration of excision biopsy

Malignancy is very rare in the paediatric population, but can include lymphoma and rhabdomyosarcoma (the most common paediatric soft tissue malignancy)

- Atypical mycobacterial (non-tuberculous mycobacterial) disease can present with slowly enlarging non-tender, indurated neck masses with purplish skin discoloration, not responding to anti-TB meds, and may need surgical treatment Midline neck masses include thyroglossal and dermoid
- cysts.If large or causing recurrent infections, should be excised
- Sinuses around the mandible (1<sup>st</sup> branchial arch), or at the anterior border of the sternocleidomastoid muscle (2nd branchial arch), or recurrent acute thyroid abscesses (4th branchial arch) should be referred to ENT for consideration of surgical excision of branchial anomalies. May be associated with a genetic anomaly (e.g. Branchio-Oto-Renal syndrome)

Excellent systematic review on management of paed cervical lymphadenopathy: Locke R, Comfort R, Kubba H. When does an enlarged cervical lymph node in a child need excision? A systematic review. Int J Pediatr Otorhinolaryngol. 2014 Mar;78(3):393-401.

### Source: NSPCC (2015) "Always there when I need you": ChildLine review: what's affected children in April 2014 - March 2015.

- During 2014-15, ChildLine counselled 276,956 children and supported a further • 9,856 who had serious concerns about another child.
- The ChildLine website received over 3.2 million visits 5% more than in 2013-14.
- The top 3 concerns counselled were family relationships, low self-• esteem/unhappiness and abuse.
- . 4 of the top 10 issues related to mental health. These issues were self-harm, suicide, low self-esteem/unhappiness and mental health conditions, Together they accounted for almost one third of total concerns.
- There were 29,126 counselling sessions about abuse in 2014-15 .

Since 2014:

- The number of counselling sessions about low self-esteem/unhappiness increased by 9%.
- Sexual abuse (including online sexual abuse) increased by 8% from 2013-14. .
- Domestic/partner abuse saw an increase of 4% from 2013-14.
- There was a 124% increase in the number of counselling sessions where young people talked about problems accessing services.
- Online counselling continued to grow, rising from 68% in 2013-14, to 71% in 2014-15.

### Click here for NSPCC Research Reports from 2016

Public Health England in Surrey and Sussex has sent out a warning about a particularly virulent strain of meningococcus (ST-11 Men W) which is affecting teenagers and young adults in the south east of UK currently. Presentation is atypical – septic arthritis, epiglottitis, GI symptoms. 14-18 year olds are being vaccinated with MenACWY. The Men B vaccine, Bexsero, covers this strain too so babies will not need revaccination. Leaflet aimed at 13-18 year olds available here.