CROUP clinical assessment tool from Birmingham Women and Children's. I mentioned this website last month as an excellent resource for GPs. It also houses very clear assessment tools for ED practitioners. Here is their traffic light system for identifying the severity of croup:

Table 1: Traffic light system for identifying severity of illness

	Green - low risk	Amber - intermediate risk	Red - High Risk
Colour and Activity	Normal     Child Alert	Quieter than normal	Pale     Lethargy     Distress / agitation
Respiratory	Respiratory rate  Under 12 months: less than 50 breaths:/minute  Over 12 months: less than 40 breathes/minute Sats 95% or above	Respiratory rate Under 12 months: 50-60 breaths/ minute Over 12 months: 40-60 breaths/ minute Sats 92-94%	Respiratory rate  over 60 (all ages) Sats less than 92%
Cough	Occasional barking cough No Stridor	Frequent barking cough and stridor	Struggling with persistent cough
Chest recession	NO chest recession	Subcostal and retrosternal recession	Marked subcostal and retrosternal recession
Circulation and Hydration	CRT less than 2 seconds	CRT 2-4 seconds	CRT more than 4 seconds
		Poor response to initial treatment     Reduced fluid intake     Uncertain diagnosis     Significant parental arwiety, late evening/night presentation.     No access to transport or long way from hospital	

#### **Croup Advice Guide:**

How is your child?



- Blue lips
- Unresponsive and very irritable
- Finding it difficult to breathe Pauses in breathing or irregular breathing pattern



- Not improving with treatment Breathing more noisy
- Breathing is more laboured Your baby's temperature is a
- Drooling



urgent help Please phone 999 or go to the nearest Accident

Please ring your GP surgery or call NHS 111 - dial 111

Self care Using the advice in this guide you can provide the care your child needs at home

croup is available here. It includes this excellent patient information resource which uses the same safety netting format as the West Sussex sepsis resources available here.

The 10 page guide to

What written safety net information are you giving your patients?

Jonathan Derrick, paediatric SHO, Google helpfully asked "Did you mean: video". So, Jon is delighted to share information with you on an emerging type of inflammatory bowel disease in the very young that not even Google knows about...

When I searched "VEOID" on-line after a recent presentation by Dr

## LESSONS FROM THE FRONT LINE: **VEOID = Very Early Onset Inflammatory Bowel Disease**

A 2 ½ year old Asian male presented with a 3-month history of bloody diarrhoea and peri-anal erythema. Mother was mainly concerned about the nappy rash and the long history of blood in the diarrhoea was only elicited on a ward round post admission. He had been treated for viral gastroenteritis and then zinc deficiency. He had lost 3 kg in weight at presentation and looked anaemic.

The child was pale, flushed and looked unwell with a tender abdomen. Hb was 70, CRP 200, ESR 160, WCC 22. Stool samples were negative for MC&S and virology, faecal calprotectin was 4,300. An AXR showed colonic thickening. The child received IV Ciprofloxacin and a blood transfusion. A referral was made to tertiary gastroenterology and following a colonoscopy the child was diagnosed with Very Early Onset Inflammatory Bowel Disease (VEOID) affecting his large bowel.

Take Home Message: VEOID is increasing in incidence. NICE in 2009 (https://pathways.nice.org.uk/pathways/diarrhoea-and-vomiting-inchildren) asked us to investigate diarrhoea if there is blood in it. Ask parents the direct question, "is there any blood or mucus in the diarrhoea?". Bloody diarrhoea and weight loss = significant pathology.

After MSK involvement, dermatological lesions are the second most common extraintestinal disorders of IBD with 1/3 of patients having some sort of rash (Pellicer Z et al. Management of cutaneous disorders related to inflammatory bowel disease. Ann Gastroenterol 2012; 25(1): 21–26). This child's nappy rash was secondary to his IBD.

FAQs on VEOID answered at Snapper S. Very–Early-Onset Inflammatory Bowel Disease. Gastroenterol Hepatol 2015 Aug; 11(8): 554-556. Defined as symptoms appearing < 6 yrs of age. There is an infantile type which develops in children under 2. Incidence is increasing, possibly involving the interaction between genetic influences and as yet unknown environmental factors.

# Dermatological manifestations of systemic disease by Dr Anusuya

Kawsar, dermatology registrar at Barts Health NHS Trust:

#### What actually is acanthosis nigricans?

The pathogenesis is poorly understood. Possibly caused by increased growth factor levels on keratinocytes with insulin-mediated activation of ILGF growth receptors playing a part.

Characterised by darkening and thickening of skin folds in axilla, groin and back of neck.

Not a disease itself but a sign of an underlying condition. In children, most often obesity-related hyperinsulinaemia. Consider malignancy in adults.

nical information on 7 different types from: https://www.dermnetnz.org/topics/acanth

### What to do in primary care with an obese child with acanthosis nigricans:

- ✓ Screen for type II diabetes and metabolic syndrome (co-existing coronary artery disease, hypertension and diabetes) - fasting insulin, glucose, HbA1c and lipid profile
- ☑ Consider polycystic ovarian syndrome in a young person with acanthosis nigricans, hirsutism, acne and irregular periods
- ☑ Correct hyperinsulinaemia through diet and medication (eg. metformin)
- ☑ Lose weight. Tertiary obesity services will accept children whose BMI is > 99th centile and they have a co-morbidity of which acanthosis nigricans is one example. Start families off with Paediatric Pearls' healthy lifestyle handout and a referral to your local weight management service (eg https://www.henry.org.uk/).

There is a comprehensive article available: Phiske MM. An approach to acanthosis nigricans. Indian Dermatol Online J. 2014 Jul-Sep; 5(3): 239-249.

For parents: https://kidshealth.org/en/parents/acanthosis.html

#### Other causes of bloody diarrhoea in children

Reference: Murphy S. Management of bloody diarrhoea in children in primary care. BMJ 2008;336:1010

INFANTS UNDER 1 YEAR OF AGE	CHILDREN OVER 1 YEAR	
Common causes:	Common causes:	
Intestinal infection	Intestinal infection	
Infant colitis	Inflammatory bowel disease	
Non-specific colitis	Crohn's colitis	
Breast milk colitis	Ulcerative colitis	
Cow's milk colitis	Juvenile polyp	
Less Common or Rare:	Less Common or Rare:	
Intestinal ischaemia	Intestinal ischaemia	
Intussusception	Intussusception	
Malrotation and volvulus	Malrotation and volvulus	
Necrotising enterocolitis	Mucosal prolapse syndrome	
Hirschsprung's disease	Henoch-Schönlein purpura or other	
Inflammatory bowel disease	forms of systemic vasculitis	
Crohn's colitis	Factitious illness	
Ulcerative colitis		
Systemic vasculitis		
Factitious illness		