Diarrhoea and/or Vomiting (Gastroenteritis) Pathway

Clinical Assessment / Management for Children with suspected Gastroenteritis

Management - Primary Care and Community Settings



Patient presents with or has a history of diarrhoea and / or vomiting

SUSPECTED GASTROENTERITIS

History Assessment of Vital Signs - Temp, Heart Rate, RR, capillary refill time Consider differential diagnosis Risk factors for dehydration - see figure 1

Do the symptoms and/or signs suggest an immediately life threatening (high risk) illness?

Yes

Consider any of the following as possible indicators of diagnoses other than gastroenteritis: Fever: Temperature of > 38°C • Shortness of breath • Altered state of consciousness • Signs of meningism • Blood in stool • Bilious (green) vomit • Vomiting alone • Recent head Injury • Recent burn Severe localised abdominal pain • Abdominal distension or rebound tenderness • Consider diabetes

ole 1	Clinical Findings	Green - Iow risk	Amber - intermediate risk	Red - high risk			
	Behaviour	Responds normally to social cues Content / smiles Store guidely a sublice guidely	Altered response to social cues No smile	No response to social cues	 Aged <1 year old (an 	reased risk of dehydration are id especially the < 6 month age	group)
		 Stays awake / awakens quickly Strong normal crying / not crying Appears well 	Decreased activity Irritable	Unable to rouse or if roused does not stay awake	 Have vomited three t Has had six or more 	we not been able to tolerate fluid times or more in the last 24 hour episodes of diarrhoea in the pas	rs
<u>و</u>			Lethargic Appears unwell	 Weak, high pitched or continuous cry Appears ill to a healthcare professional 	History of faltering growth Fig 2 Management of Clinical Dehydration		
	Skin	Normal skin colourWarm extremitiesNormal turgor	Normal skin colour Warm extremities Reduced skin turgor	Pale / mottled / ashen blue Cold extremities	 Trial of oral rehydration fluid (ORS) 2 mls/kg every 10 mins Consider checking blood glucose, esp in <6 month age group If child fails to improve within 4 hours, refer to paediatrics Reintroduce breast/bottle feeding as tolerated Continue ORS if ongoing losses 		
	Hydration	 CRT < 2 secs Moist mucous membranes (except after a drink) Fontanelle normal 	 CRT 2-3 secs Dry mucous membranes (except for mouth breather) Sunken fontanelle 	• CRT> 3 secs			
	Urine output	Normal urine output	Reduced urine output / no urine output for 12 hours	No urine output for >24 hours	*Normal paediatric values:		
"Good Medical Practice" <u>http://bit.ly/1DPXI2b</u>)	Respiratory	Normal breathing pattern and rate*	Normal breathing pattern and rate*	Abnormal breathing / tachypnoea*	(APLS [†])	Respiratory Rate at rest: [b/min]	Heart Rate [bpm]
	Heart Rate	Heart rate normalPeripheral pulses normal	 Mild tachycardia* Peripheral pulses normal 	Severe tachycardia**	< 1 year 1-2 years	30 - 40 25 - 35	110 - 160 100 - 150
	Eyes	Not sunken	Sunken Eyes		> 2-5 years	25 - 30	95 - 140
					5-12 years	20-25	80-120
	Other		 Additional parent/carer support required 		>12 years	15-20	60-100



Green Action

Provide Written and Verbal advice (see patient advice sheet)

Continue with breast and / or bottle feeding Encourage fluid intake, little and often eg. 5mls every 5 mins Children at increased risk of dehydration [see Fig 1] Confirm they are comfortable with the decisions / advice given before sending home.

Amber Action

Begin management of clinical dehydration algorithm [see Fig 2]. Agree a management plan with parents +/- seek advice from paediatrician.

As the child will need reassessing in 4 hours (this can be done remotely) if there is no clinical capacity to action please discuss with the Paediatric team

Urgent Action

Refer immediately to emergency care - consider 999 Alert paediiatrician

Consider initiating Management of Clinical Dehydration [Fig 2] awaiting transfer Consider commencing high flow oxygen support.

This guidance has been reviewed and adapted by healthcare professionals across the Black Country

This document was arrived at after careful consideration of the evidence available including but not exclusively NICE, SIGN, EBM data and NHS evidence, as applicable. Healthcare professionals are expected to take it fully into account when exercising their clinical judgement. The guidance does not, however, override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient in consultation with the patient and / or carer.

t Advanced Paediatric Life Support The Practical Approach Fifth Edition Advanced Life Support Group Edited by Martin Samuels: Susan We Wiley-Blackwell / 2011 BMJ Books

CS52185

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Glossary of Terms				
ABC	Airways, Breathing, Circulation			
APLS	Advanced Paediatric Life Support			
AVPU	Alert Voice Pain Unresponsive			
B/P	Blood Pressure			
CPD	Continuous Professional Development			
CRT	Capillary Refill Time			
ED	Hospital Emergency Department			
GCS	Glasgow Coma Scale			
HR	Heart Rate			
MOI	Mechanism of Injury			
PEWS	Paediatric Early Warning Score			
RR	Respiratory Rate			
WBC	White Blood Cell Count			

