Diarrhoea and/or Vomiting (Gastroenteritis) Pathway

Clinical Assessment / Management for Children with suspected Gastroenteritis







Patient presents with or has a history of

diarrhoea

and / or

vomiting

SUSPECTED GASTROENTERITIS

Assessment of Vital Signs - Temp, Heart Rate, RR,

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

- Refer immediately to emergency care by 999
- Alert Paediatrician
- Stay with child whilst waiting and prepare documentation

Discuss with Paediatrician

capillary refill time 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

Table 1	
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Clinical Green - low risk Amber - intermediate risk Red - high risk **Findings Behaviour** Responds normally to social cues Altered response to social cues No response to social cues Content / smiles No smile Stays awake / awakens quickly Strong normal crying / not crying Unable to rouse or if roused does not stay awake Decreased activity Appears well Irritable Lethargic Weak, high pitched or continuous cry Appears unwell Appears ill to a healthcare professional Skin Normal skin colour Normal skin colour Pale / mottled / ashen blue Warm extremities Warm extremities Cold extremities Normal turgor Reduced skin turgor CRT> 3 secs Hydration CRT < 2 secs CRT 2-3 secs Moist mucous membranes (except after a drink) Dry mucous membranes (except for mouth breather) Fontanelle normal Sunken fontanelle Normal urine output Reduced urine output / no urine output for 12 hours Urine output No urine output for >24 hours Normal breathing pattern and rate* Normal breathing pattern and rate Respiratory Abnormal breathing / tachypnoea Mild tachycardia* Heart rate normal **Heart Rate** Severe tachycardia** Peripheral pulses normal Peripheral pulses normal **Eyes** Not sunken Sunken Eyes Other Additional parent/carer support required

Fig 1 Children at increased risk of dehydration are those:

- Aged <1 year old (and especially the < 6 month age group)
- Have not taken or have not been able to tolerate fluids before presentation
- · Have vomited three times or more in the last 24 hours
- · Has had six or more episodes of diarrhoea in the past 24 hours
- History of faltering growth

Fig 2 Management of Clinical Dehydration

- Trial of oral rehydration fluid (ORS) 2 mls/kg every 10 mins
- Consider checking blood glucose, esp in <6 month age group
- · Consider referral to acute paediatric community nursing team if available
- · If child fails to improve within 4 hours, refer to paediatrics
- · Reintroduce breast/bottle feeding as tolerated
- · Continue ORS if ongoing losses

*Normal p	aediatric values:	
(APLS†)	Respiratory Rate at rest: [b/min]	Heart Rate [bpm]
< 1 year	30 - 40	110 - 160
1-2 years	25 - 35	100 - 150
> 2-5 years	25 - 30	95 - 140
5-12 years	20-25	80-120
>12 years	15-20	60-100

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



Green Action

Provide Written and Verbal advice (see patient advice sheet) Continue with breast and / or bottle feeding Encourage fluid intake, little and often eq. 5mls every 5 mins Children at increased risk of dehydration [see Fig 1] Confirm they are comfortable with the decisions / advice giver

before sending home.

Amber Action

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

Consider referral to acute paediatric community nursing team if available

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.

CS52185

This guidance has been reviewed and adapted by healthcare professionals across SYB with consent from the Hampshire development groups

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.

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First Draft Version: May 2011

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Management - Primary Care and Community Settings

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	