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

| | Clinical Findings | Green - Iow risk | Amber - intermediate risk | Red - high risk | | | |
|---|----------------------|--|--|--|--|--------------------------------------|------------------------|
| | Behaviour | Responds normally to social cues Content / smiles Stays awake / awakens quickly Strong normal crying / not crying Appears well | Altered response to social cues No smile Decreased activity Irritable Lethargic | No response to social cues Unable to rouse or if roused does not stay awake Weak, high pitched or continuous cry | 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 | | |
| | | | Appears unwell | Appears ill to a healthcare professional | | | |
| | Skin Hydration | Normal skin colour Warm extremities Normal turgor CRT < 2 secs Moist mucous membranes (except after a drink) Fontanelle normal | Normal skin colour Warm extremities Reduced skin turgor CRT 2-3 secs Dry mucous membranes (except for mouth breather) Sunken fontanelle | Pale / mottled / ashen blue Cold extremities CRT> 3 secs | 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 | | |
| | Urine output | Normal urine output | Reduced urine output / no urine output for 12 hours | No urine output for >24 hours | *Normal paediatric values: | | |
| | 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 |
| ľ | Eyes | Not sunken | Sunken Eyes | | > 2-5 years | 25 - 30 | 95 - 140 |
| | 2 | | | | 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 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.

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.





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

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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 | | | | |



