







# **Gastroenteritis Pathway**

<ul> <li>Suspected Gastroenteritis</li> <li>The passage of ≥ 3 loose/ • Vomiting watery stools per day</li> </ul>		••> suggest an ii	oms and/or signs mmediately life high risk) illness?
sk facto	rs for severe disease	:	
$<1y$ (especially <6m)		ng abdo distension), o	omit localised abdo pain, e.g. appendicitis, intus- ute bowel obstruction 1 ted diarrhoea
		↓	
	Green – Low Risk	Amber – Intermediate Risk	Red – High Risk
Activity	<ul> <li>Responds normally to social cues</li> <li>Content/smiles</li> <li>Stays awake/awakens quickly</li> <li>Strong normal cry</li> </ul>	<ul> <li>Altered response to social cues</li> <li>No smile</li> <li>Reduced activity</li> </ul>	<ul> <li>Not responding normally or no response to social cues</li> <li>Unable to rouse or if roused does not stay awake</li> <li>Weak, high pitched or continuous cry</li> <li>Appears ill</li> </ul>
Skin	<ul> <li>Normal skin colour</li> <li>CRT &lt;2 secs</li> <li>Normal skin turgor</li> <li>Warm extremities</li> <li>Normal eyes</li> </ul>	<ul> <li>Normal skin colour</li> <li>Pallor reported by parent/care</li> <li>Cool peripheries</li> <li>Reduced skin turgor</li> <li>CRT 2-3 secs</li> </ul>	<ul> <li>Pale, mottled, ashen</li> <li>Cold extremities</li> <li>CRT &gt;3 secs</li> <li>Sunken eyes</li> </ul>
espiratory	• Normal breathing	<ul> <li>Breathing at high end of normal rate for age</li> </ul>	• Tachypnoea
rculation	<ul> <li>Tolerating 75% of fluid</li> <li>Normal urine output</li> <li>Peripheral pulses normal</li> <li>HR normal</li> <li>Moist mucous membranes</li> </ul>	<ul> <li>50-75% fluid intake over 3-4 feeds</li> <li>Dry mucous membranes</li> <li>Reduced urine output (&gt;1 wet nappy/24h)</li> <li>Peripheral pulses normal</li> <li>Tachycardia</li> </ul>	<ul> <li>50% or less fluid intake over 2-3 feeds</li> <li>Dry mucous membranes</li> <li>Reduced urine output (no wet nappy/24h)</li> <li>Peripheral pulses weak</li> <li>Tachycardia</li> <li>Hypotensive</li> </ul>
		Parental anxiety	



### **Calculation of maintenance fluid requirements**

The daily fluid requirement can be estimated from the child's weight using the following formula:

1 <sup>st</sup> 10kg of weight	100ml/kg	
2 <sup>nd</sup> 10kg of weight	50ml/kg	
All additional kg of weight above 20kg (up to 50kg)	20ml/kg	Per 24h

For example, a 30kg child First 10kg =  $10kg \times 100ml/kg = 1000ml$ Second 10kg =  $10kg \times 50ml/kg = 500ml$ Additional kg =  $10kg \times 20ml/kg = 200ml$ 

Total = 1700ml/24h



## **Calculation of fluid deficit**

If dry - give 50ml/kg (5%) for fluid deficit replacement, over 4 hours in addition to maintenance fluid requirements

#### For example, a 30kg child will require

Deficit = 30kg x 50ml/kg = 1500ml/4h (in addition to maintenance fluid)

#### Trial ORS ml/h according to weight, given in 5-10 min intervals

Weight (kg)	Maintenance volume in 24h	Maintenance fluid every 10 min (ml) assuming 12h non-drinking time in 24h	Hourly volume (ml) based on 12h non-drinking time
5	500	7	42
6	600	8.5	50
7	700	10	59
8	800	11	67
9	900	13	75
10	1000	14	84
11	1050	15	88
12	1100	16	92
13	1150	16	96
14	1200	17	100
15	1250	18	105
16	1300	18	109
18	1400	20	117
20	1500	21	125
25	1600	23	134
30	1700	24	142
35	1800	25	150
40	1900	26	159
≥45	2000	28	167