For use by healthcare professionals only

# **Clinical Assessment/Management tool for Children**



Red Flags

Not immunised

• The very young (<1 year)

### Initial Assessment

- In any child presenting with suspected infection or abnormal observations with no clinical cause Think sepsis
- Sepsis can be hard to spot and symptoms can be vague.
- Think sepsis if a child looks very unwell, is deteriorating or has abnormal observations

medical care

• Sepsis can be especially hard to spot in babies and young children, children and young people with a learning disability and families who have difficulty communicating (or English is not their first language)

• They can be like symptoms of other conditions, including flu or a chest infection

• Pay attention to families and carers concerns

CLINICAL FINDINGS	GREEN –sepsis not suspected	AMBER - possible sepsis		
Respiratory	<ul> <li>Respiratory - normal RR for age,</li> <li>no respiratory distress,</li> <li>oxygen saturations sats &gt;/= 95%</li> </ul>	<ul> <li>Tachypnoea - <u>see table below</u></li> <li>Oxygen saturation 92% - 94% in air</li> <li>Signs of Mild Respiratory Distress (i.e. nasal flaring, mild chest recession)</li> </ul>	ssion)	<ul> <li>Tachypnoea: - <u>see table belo</u></li> <li>Oxygen saturations &lt; 92%</li> <li>Signs of moderate or severe</li> </ul>
Circulation and Hydration	<ul> <li>normal HR for age,</li> <li>central capillary refill &lt; 2s,</li> <li>no signs of dehydration,</li> <li>has passed urine in last 12 hours</li> <li>normal skin and eyes</li> </ul>	<ul> <li>Tachycardia - <u>see table below</u></li> <li>Central capillary refill 2-3 seconds</li> <li>Mild signs of dehydration—Dry mucous membranes</li> <li>Has not passed urine in last 12 hours</li> </ul>		<ul> <li>Severe or persistent tachycal</li> <li>Central capillary refill &gt;3 second</li> <li>Moderate or severe signs of a</li> <li>Very reduced or no urine out</li> </ul>
Colour and Activity	<ul> <li>Normal colour of skin, lips and tongue</li> <li>Responds normally to social cues</li> <li>Stays awake or awakens quickly</li> <li>Content / smiles</li> <li>Strong normal cry / not crying</li> </ul>	<ul> <li>Pallor reported by parent/carer</li> <li>Reduced response to social cues</li> <li>Wakes only with prolonged stimulation</li> <li>Decreased activity</li> <li>Poor feeding in infants</li> </ul>		<ul> <li>Pale/mottled/ashen/blue</li> <li>Non-blanching rash</li> <li>No response to social cues</li> <li>Unable to rouse or if roused of</li> <li>Weak, high pitched or continue</li> <li>Appears ill to a healthcare procession</li> </ul>
Other symptoms, and signs	No amber or red symptoms or signs	<ul> <li>temp ≥ 39°C Age 3-6 months with no clear focus of infection</li> <li>Fever for ≥ 5 days</li> <li>A new lump ≥ 2 cm</li> <li>Swelling of a limb or joint</li> <li>Additional parental/carer support required?</li> </ul>	*If 1-3 months of age with fever within 48 hours of Men B vaccine and clinically well, consider safety netting	<ul> <li>Temp ≥ 38°C in babies under</li> <li>Low temperature (below 36°C</li> <li>Bulging fontanelle or neck stitie</li> <li>Focal seizures or Focal neuron</li> <li>Bile-stained vomiting</li> <li>Non-weight bearing or not use</li> </ul>

GREEN ACTION	AMBER URGENT ACTION	
<ul> <li>Where a definitive condition affecting the child can be identified, use clinical judgment to treat using NICE guidance relevant to their diagnosis when available.</li> <li>If clinical concern of possible sepsis remains, seek advice even if trigger criteria not met</li> </ul>	<ul> <li>Refer immediately for urgent review according to local pathway (hospital ED or Paediatrician unit)</li> <li>Alert Paediatrician</li> <li>Commence relevant treatment to stabilise child for transfer</li> </ul>	<ul><li>Give oxygen</li><li>Call 999</li><li>Contact paediatrician/PEI</li></ul>
<ul> <li>Arrange follow up and re-assessment as clinically appropriate</li> </ul>		
<ul> <li>Provide information about symptoms to monitor and how to access</li> </ul>		



• Recent (<6 weeks) trauma or surgery or invasive procedure

• Impaired immunity due to illness or drugs

· Indwelling lines/catheters, any breach of skin integrity

• Chronic disease (neuro disability, chest disease)

of pregnancy

**RED** - sepsis suspected

respiratory distress (i.e. moderate or severe chest recession, grunting)

Irdia

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dehydration - reduced skin turgor, sunken eyes, sunken fontanelle tput

does not stay awake uous cry

rofessional

r 3 months\*

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iffness

ological signs

Note children under 1 month of age at highest risk of sepsis/ meningitis

sing an extremity

**RED IMMEDIATE ACTION** 

# Normal Vital Sign Values and Dehydration Risk and Management Charts

# **Clinical Assessment/ Management tool for Children**



**Back to Pathway** 

## **Normal Vital Sign Values**

Age	Heart Rate	Respiratory Rate	Blood Pressure (systolic)
1 month	110-180	30-50	70-104
1 year	80-160	20-30	72-110
10 years	70-110	16-20	90-121
12 years	60-110	16-20	90-126
14 years	60-100	16-20	92-130
2 years	80-140	20-28	74-110
3 months	110-180	30-45	70-104
4 years	80-120	20-26	78-112
6 months	110-180	25-35	72-110
6 years	75-115	18-24	82-115
8 years	70-110	18-22	86-118
Newborn	90-180	40-60	60-90

Source: Team DFTB . Normal vital sign values, Don't Forget the Bubbles, 2021. Available at: https://doi.org/10.31440/DFTB.1225

### Children at increased risk of dehydration are those

- Aged < 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

# Management of Clinical Dehydration

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

