Chest Infection (Pneumonia)

For use by healthcare professionals only

Clinical Assessment/Management tool for Children



		learnier Together
Clinical Assessment		Risk Factors
 Cough, chest pain Increased work of breathing Difficulty in breathing 	nination Findings Coarse crackles, usually focal Wheeze may be present but no hyperinflation Respiratory distress Tachypnoea signs values	High risk groups o Chronic lung disease o Prematurity (<32 weeks gestation) o Haemodynamically significant congenital heart dise o Neuromuscular disorders o Long distance to healthcare o < 3 months of age o Immunodeficiency o Carer Factors
GREEN Mild	AMBER Moderate	RED Severe
 Respiratory No respiratory distress O₂ sats >95% No nasal flaring or recessions Circulation and Hydration Tolerating 75% of fluid Occasional cough induced vomiting Moist mucus membranes Colour and activity Normal skin colour CRT <3 seconds Normal skin turgor Warm extremities Responds normally to social cues Other Systemically well Explore other concerns/holistic assessment 	Respiratory • Tachypnoea • Moderate recessions • May have nasal flaring • O ₂ sats 92% to 94% Circulation and Hydration • 50% to 75% of fluid intake over the last 4 freeduced urine output Cough induced vomiting • Reduced urine output Colour and Activity • Normal skin colour • Pallor reported by parent or carer • Cool peripheries • Reduced activity • Altered response to social cues Other • Age 3 to 6 months - T >39° C • Fever >5 days • Rigors • Parental anxiety	Respiratory • Significant respiratory distress • Apnoea • Grunting • Nasal flaring • All ages >60 BPM • O ₂ Sats <92%
Green Action	Management	Send to hospital
 Can be managed at home Optimise analgesia GP to consider antibiotics Provide information If unwell at 48hrs seek advice from secondary care and consider Add Clarithromycin ? Complications Any risk factors for severe infection 	 Same day review by primary care Give antibiotics for 5 to 7 days Consider discussing with paediatrics Maintain hydration Consider lateral flow test for Covid 	 Refer immediately to emergency care or paediatric unit - consider 999 Commence stabilisation treatment Consider high flow oxygen Consider early antibiotics administration if possible

NHS **Primary and Community Care Settings**

Red Flags

- Unwell/septic appearance
- Severe increased work of breathing
- Cyanosis or saturations <92% on pulse oximetry
- No improvement/deterioration despite 48 hours of oral antibiotics
- Apnoea or pauses in breathing

Antibiotics

- 5 day course
- Amoxicillin (dose as per BNFc) is first line
- For penicillin allergic use a macrolide (ie clarithromycin/azithromycin)
- See UKPAS