



Clinical Guidance

Paediatric Critical Care: Pertussis Infection

Summary

Pertussis guidance reviewing pathophysiology, clinical presentation, DGH treatment. Indications for early referral, PICU management and public health.

Document Detail		
Document type	Clinical Guideline	
Document name	Paediatric Critical Care: Pertussis Infection	
Document location	GTi Clinical Guidance Database and Evelina London Website	
Version	3.0	
Effective from	14 December 2022	
Review date	14 December 2025	
Owner	Head of Service, PICU	
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Superseded documents	Version 2.0	
Related documents	Paediatric ARDS	
Keywords	PICU, pertussis, infection, public health, notifiable, disease, paediatric critical care, paediatric intensive care, Bordetella, ARDS, Evelina, Child	
Relevant external law, regulation, standards		

This clinical guideline has been produced by the South Thames Retrieval Service (STRS) at Evelina London for nurses, doctors and ambulance staff to refer to in the emergency care of critically ill children.

This guideline represents the views of STRS and was produced after careful consideration of available evidence in conjunction with clinical expertise and experience. The guidance does not override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient.

Glossary: WCC- white cell count, FBC- full blood cell, PCR- polymerase chain reaction- virology test, NPA- nasopharyngeal aspirate, BAL- bronchoalveolar lavage, CVS- cardiovascular, RBC- red blood cells, HFOV High frequency oscillation ventilation

Change History		
Date	Change details, since approval	Approved by
Aug '15	Health Protection Agency changed to Public Health. Advice on ECMO and Leucofilter changed.	Evelina CGG
Dec '22	Addition of ECMO MDT discussion. Addition of 'main considerations'. Paediatric ARDS guideline hyperlink	ELCGC, Dec 2022

Paediatric Critical Care Pertussis infection

· Consider broader cover for those presenting with apnoea/seizures

Close observation of respiratory and cardiovascular status

• Fluid restrict to 2mL/kg/h; Enteral feeds preferable

General management



References: 1. Cherry et al. (2011) 2. Rowlands et al (2010) 3. Public Health England pertussis guideline (2014) 4. UK ECMO meeting (Jan 2015) 5 ELSO registry, 6. Decker et al. (2021) JID, 2021:224 (Suppl 4), 7. Esposito et al. Frontiers in immunology, July 2019, Vol 10 Art 1344.