

## **Paediatric Respiratory Medicine Grid trainees - Knowledge Based Assessments**

Trainees are expected to choose one of the titles below and prepare a 10 minute presentation with slides. There will be 5 minutes for questions from assessors and the audience at the end of the presentation.

1. Long term ventilation- modalities and challenges in paediatrics.
2. Asthma - pathophysiology, diagnosis and differentials, pharmacotherapy of biologic therapies.
3. Childhood Interstitial Lung Disease - classifications, histology, imaging, genomics.
4. CF - pathophysiology and understanding of subclasses, CFTR modulators and mode of action.
5. Normal and abnormal sleep physiology - an overview and important respiratory sleep disorders.
6. Complex respiratory infections and epidemiology in recent years.
7. Lung function tests - overview and limitations (including infant lung function testing).
8. Embryological lung development and associated congenital lung malformations.
9. Vaping and environmental impact on children's respiratory health and strategies to tackle this.

10. Lung transplantation in childhood -when to consider referral, indications in childhood and outcomes.
11. Tuberculosis - epidemiology, diagnosis and public health risks of drug resistant disease.
  
12. Health economics and controversies around calculating the cost-effectiveness of expensive pharmacotherapies for children with chronic respiratory illnesses.