## Fundamentals:

1. **Non-invasive respiratory support - HFNC, CPAP & BiPAP: PCCS Bronchiolitis Webinar 1.4**
   - This session was delivered as part of the main PCCS webinar 1. Dr Padmanabhan Ramnarayan. Assessment of & decision-making for the infant or child who requires non-invasive respiratory support. Indications, cautions & consideration of the evidence base. Mild, moderate & severe disease. Hierarchy of therapies: low flow O2, HFNC, CPAP & BiPAP.  
   - Video 19 min

2. **Educational Videos from the North Thames Childrens Acute Transport Service: CATS webinar - Bronchiolitis**
   - CATS webinar – Bronchiolitis. Watch from 26:00 - 46:00  
   - Video 20 min

3. **CPAP: Principles and clinical context**
   - CPAP - indications, contraindications, key signs of respiratory failure & ABCDE respiratory assessment, principles of safety - sizing of interface & ensuring gas flow, MDT collaboration  
   - Slides 15 min

4. **Principles of infant CPAP**
   - South Thames Paediatric Network. A webinar that explores the use of infant CPAP for respiratory support, considers the evidence to support the therapy and discusses the nursing care of a child on infant CPAP. Watch 15:25 – 46:06 - Benefits of CPAP - the evidence; Nursing care of a child on CPAP, set up of SiPAP  
   - Video 31 min

5. **Lung Sounds**
   - A video describing auscultation and the physiology behind lung sounds commonly heard during inhalation and exhalation including stridor, wheeze, pleural rub, crackles, rhonchi.  
   - Video 7 min

## Extension Learning:

1. **Algorithm to use to aid with feeding decision in PHDU**
   - An easy to use algorithm to assist decision making regarding supporting nutrition for paediatric critical care patients where a dietetic review is not possible.  
   - Infographic 5 min

2. **The Basic Principles of Blood Gas Analysis and Interpretation of Results**
   - A really easy to follow video that covers the basic principles of blood gas analysis.  
   - Video 15 min

3. **How to set up F&P bubble CPAP**
   - Video demonstrating how to set up for delivery of bubble CPAP via the Fisher Paykel system  
   - Video 9 min

4. **How to perform chest auscultation & interpret the findings**
   - Journal article explains the clinical procedure for chest auscultation and provides a guide to interpreting findings.  
   - Text 15 min