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| **10-10:30** | **Intro to PICU** |
| **Dr S Playfor** | What is PICU, who comes and what for?  what does PICU cost and what does it achieve?  Context: causes of morbidity and mortality.   MDT roles; who makes a PICU?   PICANet  The future of PICU |
|  | **Physiology - what's gone wrong when children get sick & how PICU supports physiology** |
| **10:30-11:00**  **Dr G Subramanian** | Shocked Child (Sepsis)  Surviving sepsis guidelines  Cardiovascular changes. Fluid & electrolyte status & requirements.  O2 physiology, optimising delivery, RBC physiology, transfusion targets / evidence. |
| **11:00-11:30**  **Dr S Gopisetti** | Severe pneumonia progressing to ARDS on PICU  Why is the approach to children different (and the same) to adults? Basic respiratory physiology & failing lungs What keeps a pt alive, vs. actually makes them better.  Lung protective strategies |
| **1130-1145** | **Coffee break** |
|  | **ITU Pharmacology; induction agents, sedation and vasoactive meds** |
| **1145-1215**  **Dr J Robery** | Pharmacokinetics and pharmacodynamics in critical illness  Induction agents & risks of inductions / mitigating risks Sedation and analgesia Vasoactive meds |