Appendix 1

Interview schedule and questions with reference to the Theoretical Domains Framework.

- What were the measures/signs that you use to decide a child should be classified as experiencing an acute severe exacerbation of asthma? (Knowledge)
- What factors do you use to decide if the child warrants use of IV bronchodilators, high-flow nasal oxygen, or non-invasive ventilation? (Knowledge)
  - Does access to resources influence the treatment you use? (Environment context and resources)
  - Do you feel you have the necessary skills to administer the treatment regime you think should be used? (Skills/belief about capabilities)
- What parameters or clinical symptoms signs are you trying to change by use of IV bronchodilator, high-flow nasal oxygen, or non-invasive ventilation? (Motivation and goals)
  - Does concern around child deteriorating and needing invasive ventilation influence your decision-making regarding starting second-line treatment? (Emotion)
- How do you decide which treatment regime to use?
  - Local guidelines?
    - What do you think your local guidelines are based on?
  - Consensus amongst colleagues in your department? (Social influences)
  - Personal experience?
  - Knowledge of current research data?
  - Have you changed your practice in the last 1-2 years? In the last 5 years, if yes, what was this based on? (Behavioural regulation)
- Do you feel you use “the best“ treatment regime? Why do you think this is the best treatment regime? (Beliefs about consequences)
- How similar do you think your treatment is to that given by your colleagues? (Social/professional role and identity)
  - In the same department? In the same hospital? Internationally?
  - If there are differences – why do these differences exist?
- How do you define treatment success? (Motivation and goals)
If we were doing research looking at how well a treatment worked in children with acute/severe asthma what outcomes would you think are important? (Goals and skills)

- Why are these outcomes important?
- What information do you need or questions do you need answering from research to help you manage this condition?