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?