Proposed Thesis Outline

**Acknowledgements**

**Abstract**

**Chapter 1: Introduction**

* Diagnosis and Error
* Cognitive Biases
* Confidence and Miscalibration
* Information Seeking and its link to Confidence
* Current Work
* Thesis Structure

**Chapter 2: Study 1: Systematic Scoping Review on Confidence and Certainty in Diagnoses**

* Aims and Research Questions
* Methods
  + Search Strategy
  + Study Selection
  + Research Synthesis
* Results
  + Study Inclusions and Characteristics
  + Research Designs
  + Research Themes
    - Miscalibration of Confidence and Certainty Judgements with Objective Accuracy
    - Interventions at the Point of Generating Differentials
    - Uses of Confidence in the Patient Care Pathway
  + Theoretical Framework from the Literature
* Interim Discussion
  + Overall Findings
  + Study Strengths and Weaknesses
  + Research Questions for Current DPhil Work

**Chapter 3: Study 2: Information Seeking and Confidence during Medical Diagnoses**

* Introduction
* Research Questions
* Methods
  + Participants
  + Materials
  + Procedure
  + Data Analysis
    - Case-Wise Variables
    - Derived Information Seeking Measures
* Results
  + Overall Performance
  + Calibration of Confidence to Accuracy
  + Differentials
  + Information Seeking
* Discussion

**Chapter 4: Study 3: Diagnostic Reasoning Strategies via a Think-Aloud Paradigm**

* Introduction
* Research Questions
* Methods
  + Participants
  + Materials
  + Procedure
  + Data Analysis
    - Descriptive Quantitative Analysis
    - Coding of Reasoning Strategies
    - Qualitative Thematic Analysis
    - Recoding of Reasoning Strategies in Online Vignette Study
* Results
  + Descriptive Quantitative Analysis
    - Overall Performance and Calibration
    - Differential Evaluation
  + Reasoning Strategies
    - Incidence of Strategies
    - Reasoning Strategies’ Effect on Dependent Variables
    - Dominant Reasoning Strategies
    - Subjective Reasoning Strategies
  + Thematic Analysis from Debrief Questionnaire
    - Avoidance of Anchoring
    - Standard Tendencies
    - Challenges of the Diagnostic Process
  + Reasoning Strategies in Study 2
* Discussion

**Chapter 5: Study 4: Diagnostic Uncertainty and Information Seeking in Virtual Reality Paediatric Scenarios**

* Introduction
* Research Questions
* Methods
  + Participants
  + Materials
  + Procedure
  + Data Analysis
* Results
  + Overall Performance
  + Initial Diagnostic Breadth
  + Information Seeking and Confidence
  + Time to Treat and Call for Help
  + Diagnostic Appropriateness
* Discussion

**Chapter 6: Reflective Based on In-Situ Observations within an Intensive Care Unit and Emergency Department**

* Reflexivity
* ICU
* Emergency Department
* Decision Making in Both Settings
* Uncertainty
* Information Seeking
* Evaluation of Ecological Validty

**Chapter 7: General Discussion**

* Confidence in the Diagnostic Process
* Information Seeking and Confidence during Diagnoses
* Limits to Generalisability
* Implications for Cognitive Psychology Research
* Implications for Medical Practice and Education

**Conclusion**