Table of Contents

1. General Introduction ........................................................................................................... 7

PART 1: Clinical relevance of health-related quality of life in cancer clinical trials

2. Quality of life as a prognostic indicator of survival: a pooled analysis of individual patient data from Canadian cancer trials group clinical trials ................................................................. 19

3. Does change in health-related quality of life score predict survival? Analysis of EORTC 08975 lung cancer trial ................................................. 37

4. Joint modeling of longitudinal health-related quality of life data and survival ................................................................. 59

PART 2: Methodological barriers in assessing health-related quality of life in cancer clinical trials

5. Effect of completion-time windows in the analysis of health-related quality of life outcomes in cancer patients ............... 87

6. Effect of Completion-Time Windows in the Analysis of Health-Related Quality of Life (HRQOL) Outcomes in a Radiotherapy Clinical Trial ................................................................. 109

7. Impact of neurocognitive deficits on patient-proxy agreement regarding health-related quality of life in low-grade glioma patients ................................................................. 125

PART 3: Summary, general discussion and future directions

8. Summary and Conclusion ................................................................................................. 157

Recognition ......................................................................................................................... 173

Role of the funding source ................................................................................................. 175

Acknowledgements ............................................................................................................. 177

List of publications ............................................................................................................. 179

Curriculum Vitae ................................................................................................................ 183