

Appendix B. Phase 1 Semistructured Interview Guide for MGH Patients and Oncology Clinicians

Topic 1: Content of Mobile Application

- 1) What are your impressions of the three components of the mobile application to improve symptom monitoring and adherence to oral chemotherapy:
 - a. Creation of chemotherapy treatment plan
 - b. Weekly self-report surveys (via the app) of symptoms and medication adherence
 - c. Immediate results feedback to patients and oncology team
- 2) Would you make any changes to any of these three components? In what ways could the app be improved to meet the needs of patients and clinicians?
- 3) Were there any parts of the app that didn't make sense to you?
- 4) How likely would patients refer to educational links from organizations, like the National Cancer Institute, or use suggestions from the mobile app for coping with symptoms and side effects?
- 5) What additional resources would be helpful for managing symptoms and medications at home?

Topic 2: Feasibility and Acceptability of the Mobile Application

- 6) When would be the ideal time to start the mobile app intervention during cancer care?
- 7) What types of problems, if any, do you foresee with the process of creating a chemotherapy treatment plan?
- 8) To what extent does the results feedback seem personal, relevant, and helpful?
- 9) How comfortable would you feel using this mobile app (at home or in your practice)?
- 10) Under what circumstances do you think patients or clinicians would not want to use the app?
- 11) In what ways could we change or improve the app to help make it more user-friendly and acceptable to patients and clinicians?

Topic 3: Weekly Assessments

- 1) What are your thoughts about the app surveys of symptoms and medication adherence?
- 2) Are there any problems with the wording or was there anything you did not understand?
- 3) How often should patients complete the app surveys?
- 4) Are the surveys too long to complete on a weekly basis?
- 5) At what cutoff value for each scale would it make sense to notify the oncology team of the survey results?
- 6) Should we add any other questions to the surveys to make the app more useful for patients and clinicians?

Anything else you would like to add or suggest? This brings us to the end of the interview. Thank you very much for your time and participation.