

Multimedia Appendix 1. Reasons for studies exclusion.

| Study                   | Reason for exclusion  |
|-------------------------|---|
| Egbring et al. [29]     | No QoL assessment.<br>Common Terminology Criteria for Adverse Events (CTCAE) v4.0, Eastern Cooperative Oncology Group (ECOG) Performance Status via app.  |
| Foley et al. [30]       | No mobile phone app. It is an iPad app.   |
| Fromme et al. [31]      | No mobile phone app. It is a touch screen with rotation ability from laptop mode to tablet mode.  |
| Fu et al. [32]          | No mobile phone app. It is a website accessible through a mobile phone.   |
| Hyun-Ju & Bok-Hee [33]  | No QoL assessment.<br>Diet, physical exercise, and pain by using the mobile phone app. Symptom Experience Scale (SES), social support, and Mishel Uncertainty in Illness scale (MUIS) by using self-reporting questionnaires. |
| Kearney et al. [34]     | No QoL assessment.<br>Chemotherapy Symptom Assessment Scale (C-SAS).  |
| Matthew et al. [35]     | No mobile phone app. It is a PDA app.   |
| Quintiliani et al. [36] | No QoL assessment.<br>Perceived Stress Scale (PSS) assessment.  |
| Skolarus et al. [37]    | No mobile phone app. Telephone assessment with interactive voice responses.   |
| Somers et al. [38]      | No mobile phone app. Live video-conferencing using a tablet.  |
| Sundberg et al. [39]    | Qualitative Study.  |
| Valle et al. [40]       | Anxiety assessment but only regarding weight gain.  |
| Young-Afat et al. [41]  | Qualitative Study.  |