Appendix 1. Description of the characteristics of the studies presented in the review.

Inter venti on categ	Autho rs and year	Country	Study design	Interven tion target	Sample size	Participant characteristics	Duration and follow-up	Intervention components	Outcome measures	Results	Quality of the study ¹
Early detection Prevention	Hartm an et al. [22] (2016) Eden et al. [23] (2015)	USA	Prospect ive cohort study	Weight loss To help women in their forties to gain deeper insights into their priorities for screening and prepare them to discuss mammog raphy screening with their health care providers	Interven tion N=36 Usual 75	Women age 40–75 years with increased risk of breast cancer (Gail Model score≥1.7) or previous Women age 40–49 years with no known high or moderate risk for breast cancer and no mammography during the previous year	Before and after use of app (same day)	Combined technology-based self-monitoring tools with individualized phone calls The decision aid (<i>Mammopad</i>) included educational modules on breast cancer, mammography, risk assessment, and priority setting about screening	Weight and accelerometer-measured physical activity Decisional conflict, Decision Self-efficacy scale	At 6 months, intervention participants had lost significantly more weight (4.4 kg VS 0.8 kg, p<0.01) and a Less decisional conflict, and on all subscales (p<0.01), increased decisional self-efficacy mean scores (p<0.01), different screening intentions (19%) but not significant.	Moderat e
	Heo et al. [24] (2013)	Korea	Prospect ive cohort study	To encourag e breast self-examinat ion	45	Women aged ≥19 years with no history of breast cancer and own a smartphone.	Before and after use of app	A smartphone application developed with functions including a breast self-examination date alarm, a reminder to encourage mother and daughter to practice breast self-examination together, record keeping, and educational content with video clips	Survey: increased breast self- examination	An increase from 28 to 32 women who did breast self-examination (p<0.5), subgroups: ≥30 years of age increased from 36,4% to 81.8% (p<0.05), breast self-examination during optimal time increased (2.2% to 33.3%, p<0.01), 8% detected abnormal mass leading to hospital visit	Weak
	Egbrin g et al. [25] (2016)	Switzerl and	RCT	Collection of patient-reported daily functional activity	Controls N=41 Unsuper vised interven	Women aged ≥18 years, with early breast cancer initiating adjuvant or neoadjuvant chemotherapy and	3 visits	Mobile and Web app to record daily functional activity and adverse events: Patients could report daily functional activity or symptoms with indication of	Functional activity, Eastern cooperative oncology group scoring,	Daily functional activity declined from the first to third visit for C and the E1(app) group (p<0.05) but not in the E2 (app and physician)	Strong

