

## Appendix 1 Search strategy

## Medline via PubMed

No.	Search	Result
1.	"Breast Neoplasms"[Mesh] OR "breast cancer"[tiab] OR "breast carcinoma"[tiab] OR "mammary carcinoma"[tiab] OR "breast neoplasms"[tiab] OR "breast tumors"[tiab] OR "breast malignancy"[tiab] OR "breast oncology"[tiab]	491,740
2	"Quality of Life"[Mesh] OR "personal satisfaction"[tiab] OR "patient satisfaction"[TIAB] OR "Quality adjusted life year"[tiab] OR "QOL"[tiab]	386,122
3	"Digital"[tiab] OR "Technolog**"[tiab] OR "Wear**"[tiab] OR "Devic**"[tiab] OR "Smartwatch**"[tiab] OR "Smartphone**"[tiab] OR "Tracker**"[tiab] OR "Sensor**"[tiab] OR "Monitor**"[tiab] OR "Mobile Applications"[Mesh] OR "Wearable Electronic Devices"[Mesh]	3,014,109
4	aged[TIAB] OR aged[MESH] OR geriatric*[TIAB] geriatrics[MESH] OR elder*[TIAB] OR old*[TIAB] OR ageing[TIAB] OR aging[TIAB] OR aging[MESH] OR "frail elderly"[MESH]	2,093,280
5	#1 AND #2 AND #3	1,085
6	#1 AND #2 AND #3 AND #4	40

## Embase

No.	Search	Result
1	('breast tumor'/exp OR 'breast cancer':ti,ab OR 'breast carcinoma':ti,ab OR 'mammary carcinoma':ti,ab OR 'breast neoplasms':ti,ab OR 'breast tumors':ti,ab OR 'breast malignancy':ti,ab OR 'breast oncology':ti,ab)	802,143
2	('quality of life'/exp OR 'personal satisfaction':ti,ab OR 'patient satisfaction':ti,ab OR 'quality adjusted life year*':ti,ab OR 'QOL':ti,ab)	830,804
3	('wearable device'/exp OR 'mobile application'/exp OR digital:ti,ab OR technolog*:ti,ab OR wear*:ti,ab OR devic*:ti,ab OR smartwatch*:ti,ab OR smartphone*:ti,ab OR tracker*:ti,ab OR sensor*:ti,ab OR monitor*:ti,ab)	3,806,627
4	('aged'/exp OR 'geriatric patient'/exp OR 'elderly'/exp OR 'frail elderly'/exp OR aged:ti,ab OR geriatric*:ti,ab OR elder*:ti,ab OR old*:ti,ab OR ageing:ti,ab OR aging:ti,ab)	7,176,193
5	#1 AND #2 AND #3 AND #4	805

## Scopus

No.	Search	Result
1	(TITLE-ABS-KEY("breast cancer") OR TITLE-ABS-KEY("breast carcinoma") OR TITLE-ABS-KEY("mammary carcinoma") OR TITLE-ABS-KEY("breast neoplasms") OR TITLE-ABS-KEY("breast tumors") OR TITLE-ABS-KEY("breast malignancy") OR TITLE-ABS-KEY("breast oncology"))	716,600
2	TITLE-ABS-KEY("quality of life") OR TITLE-ABS-KEY("personal satisfaction") OR TITLE-ABS-KEY("patient satisfaction") OR TITLE-ABS-KEY("quality adjusted life year*")	1,017,390
3	TITLE-ABS-KEY(digital OR technolog* OR wear* OR devic* OR smartwatch* OR smartphone* OR tracker* OR sensor* OR monitor* OR "mobile application*" OR "wearable electronic device*")	14,124,112
4	TITLE-ABS-KEY(aged OR geriatric* OR elder* OR old* OR ageing OR aging OR "frail elderly")	9,706,838
5	#1 AND #2 AND #3	4,144
6	#1 AND #2 AND #3 AND #4	1,930