Annex 1. Keyword-chains formulated for each of the 3 remaining databases searched

Web of Science

**TOPIC:** (digital\* measure\*) *OR* **TOPIC:** (digital\* obtain\*) *OR* **TOPIC:** (digital\* acquir\*) *OR* **TOPIC:** (digital intervention\*) *OR* **TOPIC:** (computer\* intervention\*) *OR* **TOPIC:** (digital technolog\*) *OR* **TOPIC:** (emerging technolog\*) *OR* **TOPIC:** (smartphone\*) *OR* **TOPIC:** (smart home environment) *OR* **TOPIC:** (smart care environment) *OR* **TOPIC:** (mobile\*) *OR* **TOPIC:** (robot\*) *OR* **TOPIC:** (ambient assisted living) *OR* **TOPIC:** (intelligent medical assistant\*) *OR* **TOPIC:** (artificial intelligence assistant\*) *OR* **TOPIC:** (personal digital assistant\*) *OR* **TOPIC:** (digital\*) *OR* **TOPIC:** (sensor\*) *OR* **TOPIC:** (wearable) *OR* **TOPIC:** (wireless)

AND

**TOPIC:** (old) *OR* **TOPIC:** (older) *OR* **TOPIC:** (senior\*) *OR* **TOPIC:** (aged) *OR* **TOPIC:** (aging) *OR* **TOPIC:** (elder\*)

AND

**TOPIC:** (predictor\*) *OR* **TOPIC:** (indicator\*) *OR* **TOPIC:** (discriminator\*) *OR* **TOPIC:** (determinant\*)

AND

**TOPIC:** (hospitalisation) *OR* **TOPIC:** (morbidity) *OR* **TOPIC:** (mortality)

Embase

'digital\* measure\*':ti,ab,kw OR 'digital\* obtain\*':ti,ab,kw OR 'digital\* acquir\*':ti,ab,kw OR 'digital intervention\*':ti,ab,kw OR 'computer\* intervention\*':ti,ab,kw OR 'digital technolog\*':ti,ab,kw OR 'emerging technolog\*':ti,ab,kw OR smartphone\*:ti,ab,kw OR 'smart home environment':ti,ab,kw OR 'smart care environment':ti,ab,kw OR mobile\*:ti,ab,kw OR robot\*:ti,ab,kw OR 'ambient assisted living':ti,ab,kw OR 'intelligent medical assistant\*':ti,ab,kw OR 'artificial intelligence assistant\*':ti,ab,kw OR 'personal digital assistant\*':ti,ab,kw OR sensor\*:ti,ab,kw OR wearable:ti,ab,kw OR wireless:ti,ab,kw

AND

old:ti,ab,kw OR older:ti,ab,kw senior\*:ti,ab,kw OR aged:ti,ab,kw OR aging:ti,ab,kw OR elder\*:ti,ab,kw

AND

predictor\*:ti,ab,kw OR indicator\*:ti,ab,kw OR descriminator\*:ti,ab,kw OR determinant\*:ti,ab,kw

AND

mortality:ti,ab,kw OR morbidity:ti,ab,kw OR hospitalisation:ti,ab,kw

PsycINFO

((noft(digital\* measure\*) OR noft(digital\* obtain\*) OR noft(technolog\*) OR noft(smartphone\*) OR noft(robot\*) OR noft(mobile\*) OR noft(digital\*) OR noft(sensor\*) OR noft(wearable) OR noft(wireless)) AND PEER(yes)) AND ((noft(old) OR noft(older) OR noft(senior\*) OR noft(aged) OR noft(aging) OR noft(elder\*)) AND PEER(yes)) AND ((noft(predictor\*) OR noft(indicator\*) OR noft(discriminator\*) OR noft(determinant\*)) AND PEER(yes)) AND ((noft(hospitalisation) OR noft(morbidity) OR noft(mortality)) AND PEER(yes))