Supplementary Digital Content 3 **Database Search Strategies**

Database(s): **CINAHL Plus with Fulltext (Ebsco)**from inception to April 14, 2023

Search Strategy:

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| **#** | **Searches** | **Results** |
| 1 | (MH "Education, Health Sciences+") OR (MH "Students, Health Occupations+") | 355,693 |
| 2 | TI ( ((medic\* or surgic\* or nurs\* or veterinar\* or health or physiotherap\* or "physical therap\*" or "occupational therap\*" or diet\*) n2 (student\* or undergraduate\* or graduate\* or intern\* or clerk\* or fellow\* or residen\* or professional\* or clinician\* or practitioner\*) OR (education or learning or training or skill\* or "professional development" or course\* or CME OR CPD OR CE))) OR AB ( ((medic\* or surgic\* or nurs\* or veterinar\* or health or physiotherap\* or "physical therap\*" or "occupational therap\*" or diet\*) n2 (student\* or undergraduate\* or graduate\* or intern\* or clerk\* or fellow\* or residen\* or professional\* or clinician\* or practitioner\*) OR (education or learning or training or skill\* or "professional development" or course\* or CME OR CPD OR CE))) | 991,688 |
| 3 | S1 OR S2 | 1,173,168 |
| 4 | (MH "Simulations+") OR(MH "Virtual Reality") | 55,079 |
| 5 | TI ( simulat\* or "virtual reality" or "augmented reality" or "mixed reality" or CPR or resuscitation or "surg\* skill\*" or "procedur\* skill\*" or "procedur\* knowledge" ) OR AB ( simulat\* or "virtual reality" or "augmented reality" or "mixed reality" or CPR or resuscitation or "surg\* skill\*" or "procedur\* skill\*" or "procedur\* knowledge" ) | 103,409 |
| 6 | S4 OR S5 |  |
| 7 | TI ( "spaced training" or "spaced practice" or "spaced learning" or "distributed training" or "distributed practice" or "distributed learning" or "just-in-time" or "just-in-place" or refresher\* or warm?up or bolus or massed or refresher\* or boost\* or (skill\* n2 maint\*) ) OR AB ( "spaced training" or "spaced practice" or "spaced learning" or "distributed training" or "distributed practice" or "distributed learning" or "just-in-time" or "just-in-place" or refresher\* or warm?up or bolus or massed or boost\* or (skill\* n2 maint\*) ) | 35,011 |
| 8 | S3 AND S6 AND S7 | 654 |