Supplementary Digital Content 1 **Database Search Strategies**

Database(s): **Ovid MEDLINE(R) ALL**1946 to April 12, 2023  
Search Strategy:

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| **#** | **Searches** | **Results** |
| 1 | exp Education, Professional/ | 328690 |
| 2 | exp Students, Health Occupations/ | 86248 |
| 3 | exp Education, Continuing/ | 62627 |
| 4 | ((medic\* or surgic\* or nurs\* or veterinar\* or health or physiotherap\* or "physical therap\*" or "occupational therap\*" or diet\*) adj2 (student\* or undergraduate\* or graduate\* or intern\* or clerk\* or fellow\* or residen\* or professional\* or clinician\* or practitioner\*)).kf,tw. | 343358 |
| 5 | (education or learning or training or skill\* or CE or CME or CPD or "professional development" or course\*).kf,tw. | 2203322 |
| 6 | 1 or 2 or 3 or 4 or 5 | 2529185 |
| 7 | exp Computer Simulation/ or exp Simulation Training/ or exp Resuscitation/ | 408063 |
| 8 | (simulat\* or "virtual reality" or "augmented reality" or "mixed reality" or CPR or resuscitation or "surg\* skill\*" or "procedur\* skill\*" or "procedur\* knowledge").kf,tw. | 771925 |
| 9 | 7 or 8 | 986917 |
| 10 | ("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\* adj2 maint\*)).kf,tw. | 153452 |
| 11 | 6 and 9 and 10 | 1983 |