Table 1 Search Strategy

**CINAHL with Full Text via EBSCO**(1963+):

(.pdf file is attached since the platform poorly handles the capturing the search history of lengthy complex searches)

|  |  |
| --- | --- |
| S16 | S12 AND S15 |
| S15 | S13 OR S14 |
| S14 | TI(interpersonal or communicat\* or convers\* or bad-news or counsel\* or motivational-interview\* or facial-expression\* or body-language or nonspeech or non-speech or non-verbal or nonverbal or presence or verbal\* or interact\* or (emotional\* N1 intelligen\*) or compassion\* or empath\*) OR AB(interpersonal or communicat\* or convers\* or bad-news or counsel\* or motivational-interview\* or facial-expression\* or body-language or nonspeech or non-speech or non-verbal or nonverbal or presence or verbal\* or interact\* or (emotional\* N1 intelligen\*) or compassion\* or empath\*) |
| S13 | (MH "Communication" OR MH "Communication Barriers+" OR MH "Communication Skills" OR MH "Conversation" OR MH "Nonverbal Communication+" OR MH "Verbal Behavior" OR MH "Counseling+" OR MH "Professional-Patient Relations+" OR MH "Emotional Intelligence" OR MH "Empathy" OR MH "Compassion") |
| S12 | S10 AND S11 |
| S11 | TI(((standardi\* or simulated or pseudo or actor\* or programmed or unannounced or incognito or mystery or undercover or secret or disguis\* or fake) N1 (patient\* or colleague\* or confederate\*)) or patient-instructor\* or pseudopatient\* or human-based-simulation or ((physical-exam or gynecological or female\* or male\* or urogenital) N1 teaching-associate\*) or OSCE or objective-structured-clinical-exam or Step-2CS or Step-2-CS or Step-2-Clinical-Skills) OR AB(((standardi\* or simulated or pseudo or actor\* or programmed or unannounced or incognito or mystery or undercover or secret or disguis\* or fake) N1 (patient\* or colleague\* or confederate\*)) or patient-instructor\* or pseudopatient\* or human-based-simulation or ((physical-exam or gynecological or female\* or male\* or urogenital) N1 teaching-associate\*) or OSCE or objective-structured-clinical-exam or Step-2CS or Step-2-CS or Step-2-Clinical-Skills) |
| S10 | S3 AND S4 AND S9 |
| S9 | S7 or S8 |
| S8 | TI(evaluat\* or assess\* or compar\* or impact\* or effect\* or validat\* or improv\* or measure\* or reliab\* or outcome\* or random\* or control\* or pretest\* or pre-test or pre-post or chang\* or cohort\* or success-rate\* or scor\* or questionnaire\* or method\*) OR AB(evaluat\* or assess\* or compar\* or impact\* or effect\* or validat\* or improv\* or measure\* or reliab\* or outcome\* or random\* or control\* or pretest\* or pre-test or pre-post or chang\* or cohort\* or success-rate\* or scor\* or questionnaire\* or method\*) |
| S7 | (MH "Educational Measurement") |
| S6 | S4 OR S5 |
| S5 | TI(instruct\* or learn\* or train\* or educat\* or faculty or staff-development or inservice\* or in-service\* or orientation\* or intern or interns\* or residency or residencies or resident or residents or fellow\* or clerkship\* or novice\* or perform\* or skill\* or competen\* or proficien\* or student\* or curricul\* or teach\* or knowledge or master\* or self-confidence or self-efficacy) OR AB(instruct\* or learn\* or train\* or educat\* or faculty or staff-development or inservice\* or in-service\* or orientation\* or intern or interns\* or residency or residencies or resident or residents or fellow\* or clerkship\* or novice\* or perform\* or skill\* or competen\* or proficien\* or student\* or curricul\* or teach\* or knowledge or master\* or self-confidence or self-efficacy) |
| S4 | (MH "Learning+" OR MH "Education+" OR MH "Education Department" OR MH "Professional Competence" OR MH "Clinical Competence+" OR MH "Health Personnel+/ED" OR MH "Multidisciplinary Care Team+" OR MW "ED") |
| S3 | S1 OR S2 |
| S2 | TI(biosimulat\* or simulat\* or telesimulat\* or augmented-reality or (virtual N2 (simulat\* or reality or surg\* or haptic\* or practice or practise or train\* or perform\*)) or vignette\* or role-play\* or standardized-patient\* or standardised-patient\* or patient-actor\* or ((simulated or pseudo or actor\* or programmed or unannounced or incognito or mystery or undercover or secret or disguis\* or fake) N1 (patient\* or colleague\* or confederate\*)) or patient-instructor\* or pseudopatient\* or ((physical-exam or gynecological or female\* or male\* or urogenital) N1 teaching-associate\*) or OSCE or objective-structured-clinical-exam or Step-2CS or Step-2-CS or Step-2-Clinical-Skills or mechanical-patient\* or positioning-doll\* or bench-train\* or bench-model\* or task-trainer\* or training-box or cadaver\* or (anatom\* N1 model\*) or surgical-model\* or moulage\* or manikin\* or mannikin\* or mannequin\* or harvey or sim-man or mistvr or (mist N1 vr) or vitalsim or simsurgery or laerdal or mock-code\* or crisis-resource-management or crisis-event-management or crew-resource-management or knot-tying or sutur\* or team-training or ((clinical or physical or patient) N1 exam\*) or ((procedur\* or skill\* or experiential or psychomotor or motor-skill\*) N1 (lab or laboratory or training or practice or practise or perform\*)) or (skill\* N1 acqui\*) or skills-course or skills-curricul\* or technical-skill\* or ((procedur\* or surg\* or operati\*) N1 (skill\* or teach\* or technique\*)) or case-scenario\* or practical-course or (practical N1 training) or resuscitat\* or life-support or ACLS or BLS or PALS or CPR or chest-compression\* or arrest or defibrillat\* or cardiopulmonary-rescue) OR AB(biosimulat\* or simulat\* or telesimulat\* or augmented-reality or (virtual N2 (simulat\* or reality or surg\* or haptic\* or practice or practise or train\* or perform\*)) or vignette\* or role-play\* or standardized-patient\* or standardised-patient\* or patient-actor\* or ((simulated or pseudo or actor\* or programmed or unannounced or incognito or mystery or undercover or secret or disguis\* or fake) N1 (patient\* or colleague\* or confederate\*)) or patient-instructor\* or pseudopatient\* or ((physical-exam or gynecological or female\* or male\* or urogenital) N1 teaching-associate\*) or OSCE or objective-structured-clinical-exam or Step-2CS or Step-2-CS or Step-2-Clinical-Skills or mechanical-patient\* or positioning-doll\* or bench-train\* or bench-model\* or task-trainer\* or training-box or cadaver\* or (anatom\* N1 model\*) or surgical-model\* or moulage\* or manikin\* or mannikin\* or mannequin\* or harvey or sim-man or mistvr or (mist N1 vr) or vitalsim or simsurgery or laerdal or mock-code\* or crisis-resource-management or crisis-event-management or crew-resource-management or knot-tying or sutur\* or team-training or ((clinical or physical or patient) N1 exam\*) or ((procedur\* or skill\* or experiential or psychomotor or motor-skill\*) N1 (lab or laboratory or training or practice or practise or perform\*)) or (skill\* N1 acqui\*) or skills-course or skills-curricul\* or technical-skill\* or ((procedur\* or surg\* or operati\*) N1 (skill\* or teach\* or technique\*)) or case-scenario\* or practical-course or (practical N1 training) or resuscitat\* or life-support or ACLS or BLS or PALS or CPR or chest-compression\* or arrest or defibrillat\* or cardiopulmonary-rescue) |
| S1 | (MH "Simulations+" OR MH "Computerized Clinical Simulation Testing" OR MH "Cadaver" OR MH "Models, Anatomic+" OR MH "Resuscitation/ED" OR MH "Life Support Care+/ED") |

**Embase via Ovid**(1974+):

|  |  |  |
| --- | --- | --- |
| **#** | **Query** | **Results from 21 Oct 2021** |
| 1 | exp simulation training/ or exp simulation/ or exp simulator/ or cadaver/ or exp anatomic model/ | 438,257 |
| 2 | (biosimulat\* or simulat\* or telesimulat\* or augmented-reality or (virtual adj2 (simulat\* or reality or surg\* or haptic\* or practice or practise or train\* or perform\*)) or vignette\* or role-play\* or standardized-patient\* or standardised-patient\* or patient-actor\* or ((simulated or pseudo or actor\* or programmed or unannounced or incognito or mystery or undercover or secret or disguis\* or fake) adj1 (patient\* or colleague\* or confederate\*)) or patient-instructor\* or pseudopatient\* or ((physical-exam or gynecological or female\* or male\* or urogenital) adj1 teaching-associate\*) or OSCE or objective-structured-clinical-exam or Step-2CS or Step-2-CS or Step-2-Clinical-Skills or mechanical-patient\* or positioning-doll\* or bench-train\* or bench-model\* or task-trainer\* or training-box or cadaver\* or (anatom\* adj1 model\*) or surgical-model\* or moulage\* or manikin\* or mannikin\* or mannequin\* or harvey or sim-man or mistvr or (mist adj1 vr) or vitalsim or simsurgery or laerdal or mock-code\* or crisis-resource-management or crisis-event-management or crew-resource-management or knot-tying or sutur\* or team-training or ((clinical or physical or patient) adj1 exam\*) or ((procedur\* or skill\* or experiential or psychomotor or motor-skill\* or dexterity) adj1 (lab or laboratory or training or practice or practise or perform\*)) or (skill\* adj1 acqui\*) or skills-course or skills-curricul\* or technical-skill\* or ((procedur\* or surg\* or operati\*) adj1 (skill\* or teach\* or technique\*)) or case-scenario\* or practical-course or (practical adj1 training) or resuscitat\* or life-support or ACLS or BLS or PALS or CPR or chest-compression\* or arrest or defibrillat\* or cardiopulmonary-rescue).ab,kf,ti,dq. | 1,588,903 |
| 3 | 1 or 2 | 1,690,839 |
| 4 | exp learning/ or continuing education/ or curriculum/ or educational technology/ or in service training/ or interdisciplinary education/ or interprofessional education/ or exp medical education/ or "outcome of education"/ or problem based learning/ or exp teaching/ or virtual learning environment/ or exp health student/ or exp paramedical education/ or teaching/ or clinical competence/ or nursing competence/ or professional competence/ or ed.fs. | 1,078,859 |
| 5 | (instruct\* or learn\* or train\* or educat\* or faculty or staff-development or inservice\* or in-service\* or orientation\* or intern or interns\* or residency or residencies or resident or residents or fellow\* or clerkship\* or housestaff or house-staff or novice\* or perform\* or skill\* or competen\* or proficien\* or student\* or curricul\* or teach\* or knowledge or master\* or self-confidence or self-efficacy).ab,kf,ti,dq. | 8,058,923 |
| 6 | 4 or 5 | 8,422,689 |
| 7 | 3 and 6 | 696,457 |
| 8 | (evaluat\* or assess\* or compar\* or impact\* or effect\* or validat\* or improv\* or measure\* or reliab\* or outcome\* or random\* or control\* or pretest\* or pre-test or pre-post or chang\* or cohort\* or success-rate\* or scor\* or questionnaire\* or method\*).ab,hw,kf,ti. | 26,638,571 |
| 9 | 7 and 8 | 646,474 |
| 10 | limit 9 to conference abstract | 167,819 |
| 11 | 9 not 10 | 478,655 |
| 12 | (((standardi\* or simulated or pseudo or actor\* or programmed or unannounced or incognito or mystery or undercover or secret or disguis\* or fake) adj1 (patient\* or colleague\* or confederate\*)) or patient-instructor\* or pseudopatient\* or human-based-simulation or ((physical-exam or gynecological or female\* or male\* or urogenital) adj1 teaching-associate\*) or OSCE or objective-structured-clinical-exam or Step-2CS or Step-2-CS or Step-2-Clinical-Skills).ab,kf,ti. | 12,817 |
| 13 | 9 and 12 | 9,979 |
| 14 | 11 and 12 | 7,164 |
| 15 | interpersonal communication/ or communication barrier/ or communication skill/ or nonverbal communication/ or persuasive communication/ or verbal communication/ or verbal behavior/ or conversation/ or oral communication/ or facial expression/ or gesture/ or tactile communication/ or exp counseling/ or exp professional-patient relationship/ or exp emotional intelligence/ or empathy/ | 500,060 |
| 16 | (interpersonal or communicat\* or convers\* or bad-news or counsel\* or motivational-interview\* or facial-expression\* or body-language or nonspeech or non-speech or non-verbal or nonverbal or presence or verbal\* or interact\* or (emotional\* adj1 intelligen\*) or compassion\* or empath\*).ab,kf,ti. | 4,984,983 |
| 17 | 15 or 16 | 5,200,291 |
| 18 | 13 and 17 | 4,649 |
| 19 | 14 and 17 | 3,235 |

**MEDLINE via Ovid**(1946+ and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) Daily):

|  |  |  |
| --- | --- | --- |
| **#** | **Query** | **Results from 21 Oct 2021** |
| 1 | exp Simulation Training/ or exp computer simulation/ or augmented reality/ or virtual reality/ or Cadaver/ or exp Models, Anatomic/ or Crew Resource Management, Healthcare/ or exp Resuscitation/ed or exp Life Support Care/ed | 344,742 |
| 2 | (biosimulat\* or simulat\* or telesimulat\* or augmented-reality or (virtual adj2 (simulat\* or reality or surg\* or haptic\* or practice or practise or train\* or perform\*)) or vignette\* or role-play\* or standardized-patient\* or standardised-patient\* or patient-actor\* or ((simulated or pseudo or actor\* or programmed or unannounced or incognito or mystery or undercover or secret or disguis\* or fake) adj1 (patient\* or colleague\* or confederate\*)) or patient-instructor\* or pseudopatient\* or ((physical-exam or gynecological or female\* or male\* or urogenital) adj1 teaching-associate\*) or OSCE or objective-structured-clinical-exam or Step-2CS or Step-2-CS or Step-2-Clinical-Skills or mechanical-patient\* or positioning-doll\* or bench-train\* or bench-model\* or task-trainer\* or training-box or cadaver\* or (anatom\* adj1 model\*) or surgical-model\* or moulage\* or manikin\* or mannikin\* or mannequin\* or harvey or sim-man or mistvr or (mist adj1 vr) or vitalsim or simsurgery or laerdal or mock-code\* or crisis-resource-management or crisis-event-management or crew-resource-management or knot-tying or sutur\* or team-training or ((clinical or physical or patient) adj1 exam\*) or ((procedur\* or skill\* or experiential or psychomotor or motor-skill\* or dexterity) adj1 (lab or laboratory or training or practice or practise or perform\*)) or (skill\* adj1 acqui\*) or skills-course or skills-curricul\* or technical-skill\* or ((procedur\* or surg\* or operati\*) adj1 (skill\* or teach\* or technique\*)) or case-scenario\* or practical-course or (practical adj1 training) or resuscitat\* or life-support or ACLS or BLS or PALS or CPR or chest-compression\* or arrest or defibrillat\* or cardiopulmonary-rescue).ab,kf,ti. | 1,275,835 |
| 3 | 1 or 2 | 1,439,310 |
| 4 | exp Learning/ or exp curriculum/ or exp Educational Measurement/ or exp inservice training/ or exp teaching/ or exp Education, Professional/ or exp Students, Health Occupations/ or exp Schools, Health Occupations/ or exp Faculty/ or ed.fs. or exp Health Occupations/ed or exp Patient Care Team/ | 1,051,054 |
| 5 | (instruct\* or learn\* or train\* or educat\* or faculty or staff-development or inservice\* or in-service\* or orientation\* or intern or interns\* or residency or residencies or resident or residents or fellow\* or clerkship\* or housestaff or house-staff or novice\* or perform\* or skill\* or competen\* or proficien\* or student\* or curricul\* or teach\* or knowledge or master\* or self-confidence or self-efficacy).ab,kf,ti. | 6,058,281 |
| 6 | 4 or 5 | 6,468,233 |
| 7 | 3 and 6 | 530,310 |
| 8 | exp Educational Measurement/ | 157,845 |
| 9 | (evaluat\* or assess\* or compar\* or impact\* or effect\* or validat\* or improv\* or measure\* or reliab\* or outcome\* or random\* or control\* or pretest\* or pre-test or pre-post or chang\* or cohort\* or success-rate\* or scor\* or questionnaire\* or method\*).ab,hw,kf,ti. | 20,386,321 |
| 10 | 8 or 9 | 20,423,858 |
| 11 | 7 and 10 | 478,519 |
| 12 | (((standardi\* or simulated or pseudo or actor\* or programmed or unannounced or incognito or mystery or undercover or secret or disguis\* or fake) adj1 (patient\* or colleague\* or confederate\*)) or patient-instructor\* or pseudopatient\* or human-based-simulation or ((physical-exam or gynecological or female\* or male\* or urogenital) adj1 teaching-associate\*) or OSCE or objective-structured-clinical-exam or Step-2CS or Step-2-CS or Step-2-Clinical-Skills).ab,kf,ti. | 9,082 |
| 13 | 11 and 12 | 7,327 |
| 14 | communication/ or nonverbal communication/ or verbal behavior/ or health communication/ or persuasive communication/ or emotional intelligence/ or emotional adjustment/ or empathy/ or exp Counseling/ or exp Professional-Patient Relations/ | 293,898 |
| 15 | (interpersonal or communicat\* or convers\* or bad-news or counsel\* or motivational-interview\* or facial-expression\* or body-language or nonspeech or non-speech or non-verbal or nonverbal or presence or verbal\* or interact\* or (emotional\* adj1 intelligen\*) or compassion\* or empath\*).ab,kf,ti. | 4,069,697 |
| 16 | 14 or 15 | 4,238,869 |
| 17 | 13 and 16 | 3,375 |