**Search Strategy for all Databases**

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| --- | --- | --- | --- | --- |
| Healthcare | Simulation | Education | Distance | Outcomes |
| Multisystem\*  Multidisciplinary  Interprofessional  Interdisciplinary  "IPE"  Multiprofessional  Health  Medicine  Medical  Physician\*  Nurse\*  Nursing  Therapy  Therapist\*  Pathology  Pathologist\*  Pharmacy  Pharmacist\*  Dental  Dentist\*  Resident\*  Surgeon\*  Surgery  "Genetic counsel\*" | Simulat\*  "Standardized Patient\*"  Mannequin  Manikin  Roleplay\* | Educat\*  Train\*  Learn\*  Teach\*  Course  Workshop  Class  Session  Student  Debrief\*  Operator  Facilitat\*  Faculty  "Professional development"  Curricul\* | Distance OR  Mobile OR  Virtual OR  Telelearning OR  Tele-education OR  Telesimulation OR  E-learning AND  in person OR  face-to-face OR  in situ  OR  Hybrid OR  Blended OR  Remote OR  Web-based | "Test score\*"  Mastery  Behavior  Attitude  Knowledge  "Translational Outcomes"  "Clinical Outcomes"  "Patient care"  Self-efficacy  Satisfaction  "Program evaluation"  Confidence  Competenc\*  "Patient experience"  "Patient safety"  Productivity  Errors  Quality  "Systems improvement"  "Team dynamics"  Communication  "Nontechnical skills"  "Soft skills"  Procedur\*  Accuracy  "Learning experience"  Timing  Speed  "Task train\*"  Well-being  Stress  Cortisol  Eye-tracking  "Heart rate"  "Team performance"  Teamwork  "Crisis Resources Management"  CRM  TeamSTEPPS  Realism  Fidelity  "Mass casualty"  Environment  "Psychological Safety"  "Return on Investment"  "Return on Expectation" |
| "Interprofessional Relations"[Mesh]  "Interprofessional Education"[Mesh]  "Allied Health Occupations"[Mesh]  "Health Occupations"[Mesh:NoExp]  "Dentistry"[Mesh]  "Evidence-Based Practice"[Mesh]  "Medicine"[Mesh]  "Nursing"[Mesh]  "Pharmacology"[Mesh]  "Pharmacy"[Mesh]  "Podiatry"[Mesh]  "Psychology, Medical"[Mesh]  "Veterinary Medicine"[Mesh]  "Students, Health Occupations"[Mesh] | "Simulation Training"[Majr]  "Patient Simulation"[Majr] | "Curriculum"[Mesh:NoExp]  "Competency-Based Education"[Mesh]  "Problem-Based Learning"[Mesh]  "Education, Professional"[Mesh]  "Professional Competence"[Mesh]  "Schools, Health Occupations"[Mesh]  "Teaching"[Mesh:NoExp]  "Learning"[Mesh]  "Faculty"[Mesh]  "Students, Health Occupations"[Mesh] | N/A | "Professional Competence"[Mesh]  "Academic Performance"[Mesh]  "Attitude of Health Personnel"[Mesh]  "Patient Care"[Mesh]  "Self Concept"[Mesh]  "Personal Satisfaction"[Mesh]  "Patient Satisfaction"[Mesh]  "Job Satisfaction"[Mesh]  "Program Evaluation"[Mesh]  "Patient Safety"[Mesh]  "Efficiency"[Mesh]  "Medical Errors"[Mesh]  "Quality of Health Care"[Mesh]  "Communication"[Mesh]  "Stress, Psychological"[Mesh]  "Stress, Physiological"[Mesh]  "Eye-Tracking Technology"[Mesh]  "Crew Resource Management, Healthcare"[Mesh]  "Mass Casualty Incidents"[Mesh]  "Outcome Assessment, Health Care"[Mesh] |

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| --- | --- |
| **Database** | **Search Strategy** |
| **Scopus** | ABS((“online education” OR “online learning” OR “onlinemodule\*” OR “online course\*” OR “online training\*” OR “online class\*” OR “online instruction\*” OR “online universit\*” OR “remote education” OR “remote learning” OR “remote module\*” OR “remote course\*” OR “remote training\*” OR “remote class\*” OR “remote instruction\*” OR “remote universit\*” OR “web-based education” OR “web-based learning” OR “web-based module\*” OR “web-based course\*” OR “web-based training\*” OR “web-based class\*” OR “web-based instruction\*” OR “internet education” OR “internet learning” OR “internet module\*” OR “internet course\*” OR “internet training\*” OR “internet class\*” OR “internet instruction\*” OR “distance education” OR “distance learning” OR “distance module\*” OR “distance course\*” OR “distance training\*” OR “distance class\*” OR “distance instruction\*” OR “mobile education” OR “mobile learning” OR “mobile module\*” OR “mobile course\*” OR “mobile training\*” OR “mobile class\*” OR “mobile instruction\*” OR “virtual education” OR “virtual learning” OR “virtual module\*” OR “virtual course\*” OR “virtual training\*” OR “virtual class\*” OR “virtual instruction\*” OR “virtual universit\*” OR “computer-assisted education” OR “computer-assisted learning” OR “computer-assisted module\*” OR “computer-assisted course\*” OR “computer-assisted training\*” OR “computer-assisted class\*” OR “computer-assisted instruction\*” OR “tele education” OR “tele learning” OR “tele module\*” OR “tele course\*” OR “tele training\*” OR “tele class\*” OR “tele instruction\*” OR “teleeducation” OR “telelearning” OR “telemodule\*” OR “telecourse\*” OR “teletraining\*” OR “teleclass\*” OR “teleinstruction\*” OR “electronic education” OR “electronic learning” OR “electronic module\*” OR “electronic course\*” OR “electronic training\*” OR “electronic class\*” OR “electronic instruction\*” OR “e education” OR “e learning” OR “e module\*” OR “e course\*” OR “e training\*” OR “e class\*” OR “e instruction\*” OR “blended learning”) AND (“simulat\*” OR “sim” OR “telesimulation” OR “tele simulation” OR “debrief\*” OR “mannequin\*” OR “manikin\*” OR “learner” OR “operator” OR “facilitator”) AND (“healthcare” OR “health”)) OR TITLE((“online education” OR “online learning” OR “online module\*” OR “online course\*” OR “online training\*” OR “online class\*” OR “online instruction\*” OR “online universit\*” OR “remote education” OR “remote learning” OR “remote module\*” OR “remote course\*” OR “remote training\*” OR “remote class\*” OR “remote instruction\*” OR “remote universit\*” OR “web-based education” OR “web-based learning” OR “web-based module\*” OR “web-based course\*” OR “web-based training\*” OR “web-based class\*” OR “web-based instruction\*” OR “internet education” OR “internet learning” OR “internet module\*” OR “internet course\*” OR “internet training\*” OR “internet class\*” OR “internet instruction\*” OR “distance education” OR “distance learning” OR “distance module\*” OR “distance course\*” OR “distance training\*” OR “distance class\*” OR “distance instruction\*” OR “mobile education” OR “mobile learning” OR “mobile module\*” OR “mobile course\*” OR “mobile training\*” OR “mobile class\*” OR “mobile instruction\*” OR “virtual education” OR “virtual learning” OR “virtual module\*” OR “virtual course\*” OR “virtual training\*” OR “virtual class\*” OR “virtual instruction\*” OR “virtual universit\*” OR “computer-assisted education” OR “computer-assisted learning” OR “computer-assisted module\*” OR “computer-assisted course\*” OR “computer-assisted training\*” OR “computer-assisted class\*” OR “computer-assisted instruction\*” OR “tele education” OR “tele learning” OR “tele module\*” OR “tele course\*” OR “tele training\*” OR “tele class\*” OR “tele instruction\*” OR “teleeducation” OR “telelearning” OR “telemodule\*” OR “telecourse\*” OR “teletraining\*” OR “teleclass\*” OR “teleinstruction\*” OR “electronic education” OR “electronic learning” OR “electronic module\*” OR “electronic course\*” OR “electronic training\*” OR “electronic class\*” OR “electronic instruction\*” OR “e education” OR “e learning” OR “e module\*” OR “e course\*” OR “e training\*” OR “e class\*” OR “e instruction\*” OR “blended learning”) AND (“simulat\*” OR “sim” OR “telesimulation” OR “tele simulation” OR “debrief\*” OR “mannequin\*” OR “manikin\*” OR “learner” OR “operator” OR “facilitator”) AND (“healthcare” OR “health”)) |
| **ERIC** | Searched under title and abstract separately  ("online education" OR "online learning" OR "online module\*" OR "online course\*" OR "online training\*" OR "online class\*" OR "online instruction\*" OR "online universit\*" OR "remote education" OR "remote learning" OR "remote module\*" OR "remote course\*" OR "remote training\*" OR "remote class\*" OR "remote instruction\*" OR "remote universit\*" OR "web-based education" OR "web-based learning" OR "web-based module\*" OR "web-based course\*" OR "web-based training\*" OR "web-based class\*" OR "web-based instruction\*" OR "internet education" OR "internet learning" OR "internet module\*" OR "internet course\*" OR "internet training\*" OR "internet class\*" OR "internet instruction\*" OR "distance education" OR "distance learning" OR "distance module\*" OR "distance course\*" OR "distance training\*" OR "distance class\*" OR "distance instruction\*" OR "mobile education" OR "mobile learning" OR "mobile module\*" OR "mobile course\*" OR "mobile training\*" OR "mobile class\*" OR "mobile instruction\*" OR "virtual education" OR "virtual learning" OR "virtual module\*" OR "virtual course\*" OR "virtual training\*" OR "virtual class\*" OR "virtual instruction\*" OR "virtual universit\*" OR "computer-assisted education" OR "computer-assisted learning" OR "computer-assisted module\*" OR "computer-assisted course\*" OR "computer-assisted training\*" OR "computer-assisted class\*" OR "computer-assisted instruction\*" OR "tele education" OR "tele learning" OR "tele module\*" OR "tele course\*" OR "tele training\*" OR "tele class\*" OR "tele instruction\*" OR "teleeducation" OR "telelearning" OR "telemodule\*" OR "telecourse\*" OR "teletraining\*" OR "teleclass\*" OR "teleinstruction\*" OR "electronic education" OR "electronic learning" OR "electronic module\*" OR "electronic course\*" OR "electronic training\*" OR "electronic class\*" OR "electronic instruction\*" OR "e education" OR "e learning" OR "e module\*" OR "e course\*" OR "e training\*" OR "e class\*" OR "e instruction\*" OR "blended learning" OR DE "Blended Learning" OR DE "Distance Education" OR DE "Correspondence Study" OR DE "Computer Assisted Instruction" OR DE "Intelligent Tutoring Systems" OR DE "Telecourses" OR DE "Online Courses" OR DE "Virtual Classrooms" OR DE "Virtual Universities") AND ("simulat\*" OR "sim" OR DE "Simulation" OR "telesimulation" OR "tele simulation" OR "debrief\*" OR "mannequin\*" OR "manikin\*" OR "learner" OR "operator" OR "facilitator") AND (“healthcare” OR “health” OR DE "Health" OR DE "Child Health" OR DE "Mental Health" OR DE "Occupational Safety and Health" OR DE "Physical Health" OR DE "Public Health" OR DE "Wellness" OR DE "Health Services" OR DE "Community Health Services" OR DE "Hospices (Terminal Care)" OR DE "Medical Services" OR DE "Prenatal Care" OR DE "School Health Services") |
| EBSCO | Searched under title and abstract separately. Searched all databases on EBSCO.  ("online education" OR "online learning" OR "online module\*" OR "online course\*" OR "online training\*" OR "online class\*" OR "online instruction\*" OR "online universit\*" OR "remote education" OR "remote learning" OR "remote module\*" OR "remote course\*" OR "remote training\*" OR "remote class\*" OR "remote instruction\*" OR "remote universit\*" OR "web-based education" OR "web-based learning" OR "web-based module\*" OR "web-based course\*" OR "web-based training\*" OR "web-based class\*" OR "web-based instruction\*" OR "internet education" OR "internet learning" OR "internet module\*" OR "internet course\*" OR "internet training\*" OR "internet class\*" OR "internet instruction\*" OR "distance education" OR "distance learning" OR "distance module\*" OR "distance course\*" OR "distance training\*" OR "distance class\*" OR "distance instruction\*" OR "mobile education" OR "mobile learning" OR "mobile module\*" OR "mobile course\*" OR "mobile training\*" OR "mobile class\*" OR "mobile instruction\*" OR "virtual education" OR "virtual learning" OR "virtual module\*" OR "virtual course\*" OR "virtual training\*" OR "virtual class\*" OR "virtual instruction\*" OR "virtual universit\*" OR "computer-assisted education" OR "computer-assisted learning" OR "computer-assisted module\*" OR "computer-assisted course\*" OR "computer-assisted training\*" OR "computer-assisted class\*" OR "computer-assisted instruction\*" OR "tele education" OR "tele learning" OR "tele module\*" OR "tele course\*" OR "tele training\*" OR "tele class\*" OR "tele instruction\*" OR "teleeducation" OR "telelearning" OR "telemodule\*" OR "telecourse\*" OR "teletraining\*" OR "teleclass\*" OR "teleinstruction\*" OR "electronic education" OR "electronic learning" OR "electronic module\*" OR "electronic course\*" OR "electronic training\*" OR "electronic class\*" OR "electronic instruction\*" OR "e education" OR "e learning" OR "e module\*" OR "e course\*" OR "e training\*" OR "e class\*" OR "e instruction\*" OR "blended learning") AND ("simulat\*" OR "sim" OR "telesimulation" OR "tele simulation" OR "debrief\*" OR "mannequin\*" OR "manikin\*" OR "learner" OR "operator" OR "facilitator") AND (“healthcare” OR “health”) |
| **PubMed** | ("online education"[TIAB] OR "online learning"[TIAB] OR "online module\*"[TIAB] OR "online course\*"[TIAB] OR "online training\*"[TIAB] OR "online class\*"[TIAB] OR "online instruction\*"[TIAB] OR "online universit\*"[TIAB] OR "remote education"[TIAB] OR "remote learning"[TIAB] OR "remote module\*"[TIAB] OR "remote course\*"[TIAB] OR "remote training\*"[TIAB] OR "remote class\*"[TIAB] OR "remote instruction\*"[TIAB] OR "remote universit\*"[TIAB] OR "web-based education"[TIAB] OR "web-based learning"[TIAB] OR "web-based module\*"[TIAB] OR "web-based course\*"[TIAB] OR "web-based training\*"[TIAB] OR "web-based class\*"[TIAB] OR "web-based instruction\*"[TIAB] OR "internet education"[TIAB] OR "internet learning"[TIAB] OR "internet module\*"[TIAB] OR "internet course\*"[TIAB] OR "internet training\*"[TIAB] OR "internet class\*"[TIAB] OR "internet instruction\*"[TIAB] OR "distance education"[TIAB] OR "distance learning"[TIAB] OR "distance module\*"[TIAB] OR "distance course\*"[TIAB] OR "distance training\*"[TIAB] OR "distance class\*"[TIAB] OR "distance instruction\*" OR "mobile education"[TIAB] OR "mobile learning"[TIAB] OR "mobile module\*"[TIAB] OR "mobile course\*"[TIAB] OR "mobile training\*"[TIAB] OR "mobile class\*"[TIAB] OR "mobile instruction\*"[TIAB] OR "virtual education"[TIAB] OR "virtual learning"[TIAB] OR "virtual module\*"[TIAB] OR "virtual course\*"[TIAB] OR "virtual training\*"[TIAB] OR "virtual class\*"[TIAB] OR "virtual instruction\*"[TIAB] OR "virtual universit\*"[TIAB] OR "computer-assisted education"[TIAB] OR "computer-assisted learning"[TIAB] OR "computer-assisted module\*"[TIAB] OR "computer-assisted course\*"[TIAB] OR "computer-assisted training\*"[TIAB] OR "computer-assisted class\*"[TIAB] OR "computer-assisted instruction\*"[TIAB] OR "tele education"[TIAB] OR "tele learning"[TIAB] OR "tele module\*"[TIAB] OR "tele course\*"[TIAB] OR "tele training\*"[TIAB] OR "tele class\*"[TIAB] OR "tele instruction\*"[TIAB] OR "teleeducation"[TIAB] OR "telelearning"[TIAB] OR "telemodule\*"[TIAB] OR "telecourse\*"[TIAB] OR "teletraining\*"[TIAB] OR "teleclass\*"[TIAB] OR "teleinstruction\*"[TIAB] OR "electronic education"[TIAB] OR "electronic learning"[TIAB] OR "electronic module\*"[TIAB] OR "electronic course\*"[TIAB] OR "electronic training\*"[TIAB] OR "electronic class\*"[TIAB] OR "electronic instruction\*"[TIAB] OR "e education"[TIAB] OR "e learning"[TIAB] OR "e module\*"[TIAB] OR "e course\*"[TIAB] OR "e training\*"[TIAB] OR "e class\*"[TIAB] OR "e instruction\*"[TIAB] OR "blended learning"[TIAB] OR "Education, Distance"[Mesh] OR "Computer-Assisted Instruction"[Mesh]) AND ("simulat\*"[TIAB] OR "sim"[TIAB] OR "Simulation Training"[Mesh] OR "telesimulation"[TIAB] OR "tele simulation"[TIAB] OR "debrief\*"[TIAB] OR "mannequin\*"[TIAB] OR "manikin\*"[TIAB] OR "Manikins"[Mesh] OR "learner"[TIAB] OR "operator"[TIAB] OR "facilitator"[TIAB]) |
| **EMBASE** | (‘online education':AB,TI OR 'online learning':AB,TI OR 'online module\*':AB,TI OR 'online course\*':AB,TI OR 'online training\*':AB,TI OR 'online class\*':AB,TI OR 'online instruction\*':AB,TI OR 'online universit\*':AB,TI OR 'remote education':AB,TI OR 'remote learning':AB,TI OR 'remote module\*':AB,TI OR 'remote course\*':AB,TI OR 'remote training\*':AB,TI OR 'remote class\*':AB,TI OR 'remote instruction\*':AB,TI OR 'remote universit\*':AB,TI OR 'web-based education':AB,TI OR 'web-based learning':AB,TI OR 'web-based module\*':AB,TI OR 'web-based course\*':AB,TI OR 'web-based training\*':AB,TI OR 'web-based class\*':AB,TI OR 'web-based instruction\*':AB,TI OR 'internet education':AB,TI OR 'internet learning':AB,TI OR 'internet module\*':AB,TI OR 'internet course\*':AB,TI OR 'internet training\*':AB,TI OR 'internet class\*':AB,TI OR 'internet instruction\*':AB,TI OR 'distance education':AB,TI OR 'distance learning':AB,TI OR 'distance module\*':AB,TI OR 'distance course\*':AB,TI OR 'distance training\*':AB,TI OR 'distance class\*':AB,TI OR 'distance instruction\*' OR 'mobile education':AB,TI OR 'mobile learning':AB,TI OR 'mobile module\*':AB,TI OR 'mobile course\*':AB,TI OR 'mobile training\*':AB,TI OR 'mobile class\*':AB,TI OR 'mobile instruction\*':AB,TI OR 'virtual education':AB,TI OR 'virtual learning':AB,TI OR 'virtual module\*':AB,TI OR 'virtual course\*':AB,TI OR 'virtual training\*':AB,TI OR 'virtual class\*':AB,TI OR 'virtual instruction\*':AB,TI OR 'virtual universit\*':AB,TI OR 'computer-assisted education':AB,TI OR 'computer-assisted learning':AB,TI OR 'computer-assisted module\*':AB,TI OR 'computer-assisted course\*':AB,TI OR 'computer-assisted training\*':AB,TI OR 'computer-assisted class\*':AB,TI OR 'computer-assisted instruction\*':AB,TI OR 'tele education':AB,TI OR 'tele learning':AB,TI OR 'tele module\*':AB,TI OR 'tele course\*':AB,TI OR 'tele training\*':AB,TI OR 'tele class\*':AB,TI OR 'tele instruction\*':AB,TI OR 'teleeducation':AB,TI OR 'telelearning':AB,TI OR 'telemodule\*':AB,TI OR 'telecourse\*':AB,TI OR 'teletraining\*':AB,TI OR 'teleclass\*':AB,TI OR 'teleinstruction\*':AB,TI OR 'electronic education':AB,TI OR 'electronic learning':AB,TI OR 'electronic module\*':AB,TI OR 'electronic course\*':AB,TI OR 'electronic training\*':AB,TI OR 'electronic class\*':AB,TI OR 'electronic instruction\*':AB,TI OR 'e education':AB,TI OR 'e learning':AB,TI OR 'e module\*':AB,TI OR 'e course\*':AB,TI OR 'e training\*':AB,TI OR 'e class\*':AB,TI OR 'e instruction\*':AB,TI OR 'blended learning':AB,TI OR 'virtual learning environment'/exp OR 'e-learning'/exp) AND ('simulat\*':AB,TI OR 'sim':AB,TI OR 'simulation training'/exp OR 'telesimulation':AB,TI OR 'tele simulation':AB,TI OR 'debrief\*':AB,TI OR 'mannequin\*':AB,TI OR 'manikin\*':AB,TI OR 'Manikin'/exp OR 'learner':AB,TI OR 'operator':AB,TI OR 'facilitator':AB,TI) |
| **Cochrane Library** | 1. "online education" OR "online learning" OR "online module\*" OR "online course\*" OR "online training\*" OR "online class\*" OR "online instruction\*" OR "online universit\*" OR "remote education" OR "remote learning" OR "remote module\*" OR "remote course\*" OR "remote training\*" OR "remote class\*" OR "remote instruction\*" OR "remote universit\*" OR "web-based education" OR "web-based learning" OR "web-based module\*" OR "web-based course\*" OR "web-based training\*" OR "web-based class\*" OR "web-based instruction\*" OR "internet education" OR "internet learning" OR "internet module\*" OR "internet course\*" OR "internet training\*" OR "internet class\*" OR "internet instruction\*" OR "distance education" OR "distance learning" OR "distance module\*" OR "distance course\*" OR "distance training\*" OR "distance class\*" OR "distance instruction\*" OR "mobile education" OR "mobile learning" OR "mobile module\*" OR "mobile course\*" OR "mobile training\*" OR "mobile class\*" OR "mobile instruction\*" OR "virtual education" OR "virtual learning" OR "virtual module\*" OR "virtual course\*" OR "virtual training\*" OR "virtual class\*" OR "virtual instruction\*" OR "virtual universit\*" OR "computer-assisted education" OR "computer-assisted learning" OR "computer-assisted module\*" OR "computer-assisted course\*" OR "computer-assisted training\*" OR "computer-assisted class\*" OR "computer-assisted instruction\*" OR "tele education" OR "tele learning" OR "tele module\*" OR "tele course\*" OR "tele training\*" OR "tele class\*" OR "tele instruction\*" OR "teleeducation" OR "telelearning" OR "telemodule\*" OR "telecourse\*" OR "teletraining\*" OR "teleclass\*" OR "teleinstruction\*" OR "electronic education" OR "electronic learning" OR "electronic module\*" OR "electronic course\*" OR "electronic training\*" OR "electronic class\*" OR "electronic instruction\*" OR "e education" OR "e learning" OR "e module\*" OR "e course\*" OR "e training\*" OR "e class\*" OR "e instruction\*" OR "blended learning" 2. "Education, Distance"[Mesh] 3. "Computer-Assisted Instruction"[Mesh] 4. #1 OR #2 OR #3 5. "simulat\*" OR "sim" OR "telesimulation" OR "tele simulation" OR "debrief\*" OR "mannequin\*" OR "manikin\*" OR "learner" OR "operator" OR "facilitator" 6. "Manikins"[Mesh] 7. "Simulation Training"[Mesh] 8. #5 OR #6 OR #7 9. #4 AND #8 |