**Supplemental Digital Content 2: Initial Literature Search String**

Searches were conducted in PubMed, EMBASE, ProQuest Dissertations and Theses Global, along with two hand searches in relevant journals not listed on PubMed on September 15th 2021. Since the research questions applied to healthcare professions students and practitioners across professions and concerned a variety of outcomes, the strategies were broadly constructed, with limiters to exclude ineligible publication types and articles related to in-situ laboratory methods. The search string used for each database is included below:

**PubMed**

("in-situ" OR "in situ" OR workplace OR "workplace-based" OR "just-in-place" OR drill\* OR "mock code") AND ("Simulation Training"[Mesh] OR "Education, Medical"[Mesh] OR simulat\* OR training OR education\* OR teaching OR "mock code") NOT (("Case Reports"[pt] OR Comment[pt] OR Editorial[pt] OR Letter[pt] OR Review[pt]) OR (Neoplasms[Mesh] OR "Medical Oncology"[Mesh] OR cancer\* OR carcinoma OR neoplasm\* OR malignan\* OR tumor\* OR tumour\*) OR ("Computer Simulation"[Mesh] OR "data simulation") OR (Animals[Mesh] OR "Models, Animal"[Mesh] OR "Models, Biological"[Mesh] OR “In Situ Hybridization”[Mesh] OR Histology[Mesh] OR “in situ hybridization” OR “in-situ hybridization” OR “hybridization in situ” OR histology OR histochemistry) OR ("Forensic Sciences"[Mesh] OR Chemistry[Mesh] OR Physics[Mesh] OR forensic OR chemistry OR physics))

**EMBASE**

("in-situ" OR "in situ" OR workplace OR "workplace-based" OR "just-in-place" OR drill\* OR "mock code") AND (‘medical education’/exp OR ‘simulation training’/exp OR simulat\* OR training OR education OR teaching OR “mock code”) NOT ((‘case report’/exp OR ‘letter’/exp OR ‘editorial’/exp OR ‘review’/exp) OR (‘neoplasm’/exp OR ‘oncology’/exp OR cancer OR neoplasm\* OR malignan\* OR tumor\* OR tumour\*) OR (‘computer simulation’/exp OR “data simulation”) OR (‘animal’/exp OR ‘animal model’/exp OR ‘biological model’/exp OR ‘in situ hybridization’/exp OR ‘histology’/exp OR ‘histochemistry’/exp OR “in situ hybridization” OR “in-situ hybridization” OR “hybridization in situ” OR histology OR histochemistry) OR (‘forensic science’/exp OR ‘chemistry’/exp OR ‘physics’/exp OR forensic OR chemistry OR physics))

**ProQuest Dissertations & Theses Global**

noft(("in-situ" OR "in situ" OR workplace OR "workplace-based" OR "just-in-place" OR drill\* OR "mock code") AND (“medical education” OR simulat\* OR training OR education\* OR teaching OR “mock code”) NOT ((neoplasms\* OR oncology OR cancer OR malignan\* OR tumor\* OR tumour\*) OR (“computer simulation” OR “data simulation”) OR (animal\* OR “biological model” OR “in situ hybridization” OR “in-situ hybridization” OR “hybridization in situ” OR histology OR histochemistry) OR (forensic OR chemistry OR physics)))

**BMJ Simulation & Technology Enhanced Learning Hand Search**

 “Original Research,” “Research Papers,” “Research Paper Oral Presentations”

**Clinical Simulation in Nursing Hand Search**

 “Research article”