

Supplementary file 2 – PubMed search strategy

1. serious gam*[TIAB] OR applied gam*[TIAB] OR ((simulation[TIAB] OR training[TIAB] OR teaching[TIAB] OR educational[TIAB] OR education[TIAB] OR learning[TIAB] OR interactive[TIAB]) AND (((online[TIAB] OR electronic[TIAB] OR digital[TIAB] OR "over-the-counter"[

TIAB] OR commercial[TIAB] OR computer[TIAB] OR virtual[TIAB] OR mobile application*[TIAB] OR mobile app[TIAB]) AND (game[TIAB] OR games[TIAB] OR gamification[TIAB] OR gaming[TIAB] OR)) OR (videogame*[TIAB] OR video game*[TIAB]))

2. "Video Games"[MH]

3. #1 OR #2

4. Health Personnel*[TIAB] OR Health professional*[TIAB] OR Health care profession*[TIAB] OR

Healthcare profession*[TIAB] OR Medical student*[TIAB] OR Medical assistant*[TIAB] OR health worker*[TIAB] OR Audiologist*[TIAB] OR Chiropractor*[TIAB] OR Dentist[TIAB] OR Dentists[TIAB] OR Dietitian*[TIAB] OR Dermatolog*[TIAB] OR endocrinologist*[TIAB] OR Gastroenterolog*[TIAB] OR Gynecolog*[TIAB]OR Radiolog*[TIAB] OR Medical Staff[TIAB] OR Midwife*[TIAB] OR neurologi*[TIAB] OR nutritionist*[TIAB] OR Nurse[TIAB] OR Nurses[TIAB] OR nursing[TIAB] OR Optometrist*[TIAB] OR Occupational Therapist*[TIAB] OR Patholog*[TIAB] OR Paramedic[TIAB] OR Paediatric[TIAB] OR pediatrician*[TIAB] OR Paediatrician*[TIAB] OR pediatric*[TIAB] OR pediatric[TIAB] OR Pharmacist*[TIAB] OR Pharmaconomist*[TIAB] OR Pharmacologist*[TIAB] OR Pharmacy technician*[TIAB] OR Phlebotomist*[TIAB] OR Physician OR Podiatrist*[TIAB] OR Psychologist*[TIAB] OR Psychotherapist*[TIAB] OR psychiatrist*[TIAB] OR Physical therapist*[TIAB] OR physiotherapist*[TIAB] OR Respiratory therapist*[TIAB] OR Surgeon*[TIAB] OR surgical [TIAB] OR Clinician*[TIAB] OR Cardiologist*[TIAB] OR medical technician*[TIAB] OR emergency doctor*[TIAB] OR emergentologist*[TIAB] OR clinical officer*[TIAB] OR Community health worker*[TIAB] OR Radiographer*[TIAB] OR Radiotherapist*[TIAB] OR technologist[TIAB] OR Anesthetist*[TIAB] OR Resident[TIAB] OR residents[TIAB] OR trainee[TIAB] OR trainees[TIAB] OR intern[TIAB] OR interns[TIAB]

5. "Health Personnel"[MH] OR "Students, Premedical"[MH] OR "Students, Medical"[MH] OR

"Students, Nursing"[Mesh]

6. "Education, Premedical"[MH] OR "Education, Medical"[MH] OR "Education, Nursing"[MH] OR

"Education, Pharmacy"[MH] OR "Education, Public Health Professional"[MH] OR "Clinical Clerkship"[MH]

7. #4 OR #5 OR 6

8. knowledge*[TIAB] OR aptitude*[TIAB] OR accuracy[TIAB] OR ability[TIAB] OR abilities[TIAB] OR capacity [TIAB] OR capacities[TIAB] OR confidence[TIAB] OR competency[TIAB] OR competencies[TIAB] OR impact*[TIAB] OR skill*[TIAB] OR performance*[TIAB] OR learning outcome*[TIAB] OR training outcome*[TIAB] OR

effectiveness[TIAB] OR efficacy[TIAB] OR improvement*[TIAB] OR innovative*[TIAB] OR innovation*[TIAB] OR retention[TIAB] OR randomised controlled trial[TIAB] OR randomized

controlled trial[TIAB]

9. "Clinical Competence"[MH] "Quality Improvement"[MH] OR "Learning Curve"[MH] OR Knowledge [MH] OR "Educational Measurement"[MH] OR "randomized controlled trial"[PT]

10. #8 OR 9

11. #3 AND #7 AND #10

12. (english[LA] OR french[LA]) AND 2000:2017[DP]

13. #11 AND #12