Supplementary Digital Appendix 1

Search Strategy

MEDLINE
[(exp Artificial Intelligence/) OR ((artificial adj3 intelligence).tw,kf.) OR ((machine adj3
learn*).tw,kf.) OR {exp Machine Learning/}] AND [(or exp Education, Medical/) OR (exp
Clinical Clerkship/) OR (exp Schools, Medical/) OR ((medic* adj3 educat*).tw,kf.) OR ((medic*
adj3 (student* or learner* or trainee* or clerk)).tw,kf.) OR (medical school.tw,kf.)]

EMBASE
[(exp artificial intelligence/) OR (exp machine learning/) OR ((artificial adj3
intelligence).tw,kw.) OR ((machine adj3 learn*).tw,kw.)] AND [(exp clinical education/) OR
(exp medical student/) OR (exp medical school/) OR ((medic* adj3 educat*).tw,kw.) OR
((medic* adj3 (student* or learner* or trainee* or clerk)).tw,kw.) OR (medical school.tw,kw.)
OR (clinical education.tw,kw.)]

ERIC (ProQuest)
[(Artificial Intelligence) OR (artificial W/3 intelligence) OR (machine W/3 learn*) OR (machine
learning)] AND [(undergrad* W/3 medic* W/3 educat*) OR (medic* W/3 educat*) OR (medic*
W/3 student*) OR (clinical W/3 clerkship*) OR (medic* W/3 school*) OR (medic* W/3
learner*) OR (medic* W/3 trainee*) OR (medic* W/3 clerk*) OR (medical education) OR
(medical student) OR (medical school) OR (undergraduate medical education) OR (medical
student education)]

**SCOPUS**

( TITLE-ABS

KEY (( artificial AND intelligence ) OR ( artificial W/3 intelligence ) OR ( machine W/3 learn* ) OR ( machine AND learning )) AND TITLE-ABS-

KEY (( undergrad* W/3 medic* W/3 educat* ) OR ( medic* W/3 educat* ) OR ( medic* W/3 student* ) OR ( clinical W/3 clerkship* ) OR ( medic* W/3 school* ) OR ( medic* W/3 learner* ) OR ( medic* W/3 trainee* ) OR ( medic* W/3 clerk* ) OR ( medical AND education ) OR ( medical AND student ) OR ( medical AND school ) OR ( undergraduate AND medical AND education ) OR ( medical AND student AND education )))

**COCHRANE – Reviews**

All Text ((Artificial Intelligence) OR (artificial NEAR/3 intelligence) OR (machine NEAR/3 learn*) OR (machine learning)) AND All Text ((undergrad* NEAR/3 medic* NEAR/3 educat*) OR (medic* NEAR/3 educat*) OR (medic* NEAR/3 student*) OR (clinical NEAR/3 clerkship*) OR (medic* NEAR/3 school*) OR (medic* NEAR/3 learner*) OR (medic* NEAR/3 trainee*) OR (medic* NEAR/3 clerk*) OR (medical education) OR (medical student) OR (medical school) OR (undergraduate medical education) OR (medical student education))

**MedEdPortal**

ANYWHERE ("artificial intelligence" OR "machine learning" OR "machine learn*") AND ("undergrad* medic* educat*" OR "medic* educat*" OR "medic* student*" OR "clinical clerkship*" OR "medic* school*" OR "medic* learner*" OR "medic* trainee*" OR "medic*
clerk*" OR "medical education" OR "medical student" OR "medical school" OR "undergraduate medical education" OR "medical student education")
Supplementary Digital Appendix 2
Data Extraction Form (informed by the GREET Checklist)\textsuperscript{15}

1. Authors
2. Title
3. Year
4. Manuscript Type
5. Why
   a. Rationale – Why should AI be taught to undergraduate medical students?
   b. Theory – What are the educational theories, concepts or approaches that informed the AI curriculum?
   c. Learning objectives – What are the learning objectives for AI curriculum in UME? What will medical students need to know to work alongside AI systems?
   d. Barriers – What are the challenges that limit the integration of AI in UME?
6. What
   a. Materials -What are the specific educational materials used in the AI educational intervention?
7. Who
   a. Instructors – Who are the instructors involved in the educational intervention of AI training in UME?
8. How
   a. Delivery – How should AI curriculum be delivered (e.g., face-to-face, internet or independent study package)?
b. Educational strategies – what were the specific teaching/learning strategies employed for AI educational intervention (e.g., tutorials, lectures, online modules)?

c. Schedule – What was the scheduling of the AI educational intervention? Include the number of sessions, their frequency, timing and duration.

9. Where

a. Environment – Where did the AI educational intervention take place? Describe the physical learning spaces (e.g., conference, university lecture theatre, hospital ward, community) where the teaching occurred.

10. How well

a. Describe any processes that were taken to determine the effectiveness of the AI educational intervention.

b. Describe any processes used to determine whether the materials and the educational strategies used in the educational intervention were delivered as originally planned.

c. Describe the extent to which the number of sessions, their frequency, timing and duration for the educational intervention were delivered as scheduled.