## **Supplemental information**

## The application of large language

models in medicine: A scoping review

Xiangbin Meng, Xiangyu Yan, Kuo Zhang, Da Liu, Xiaojuan Cui, Yaodong Yang, Muhan Zhang, Chunxia Cao, Jingjia Wang, Xuliang Wang, Jun Gao, Yuan-Geng-Shuo Wang, Jia-ming Ji, Zifeng Qiu, Muzi Li, Cheng Qian, Tianze Guo, Shuangquan Ma, Zeying Wang, Zexuan Guo, Youlan Lei, Chunli Shao, Wenyao Wang, Haojun Fan, and Yi-Da Tang

- Good performance in medical exams.
- Realistic training scenarios.
- Synergy for AI and humanistic qualities
- Blend clinical details with algorithmic accuracy.
- Complement for doctors, rather than replacement

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- Redefine the role of dental nurses.
- Postoperative care.
- Assisting children with Down syndrome.



Education &training



Diagnosis& treatment



Nursing



Medical writing



Project management



Patient comm -umication



Other areas

- Formulate medical manuscripts.
- Generate radiology report.
- Summarize surgical records.
- Innovative digital interventions.
- Clinical decision, support systems.
- Analyse large amounts of data.
- Amplify accuracy of consultations.
- Patient education.
- Crucial role in combating misconceptions.

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- Public health and infectious disease control(e.g.COVID-19).
- Drug discovery.
- Novel biomolecule design.