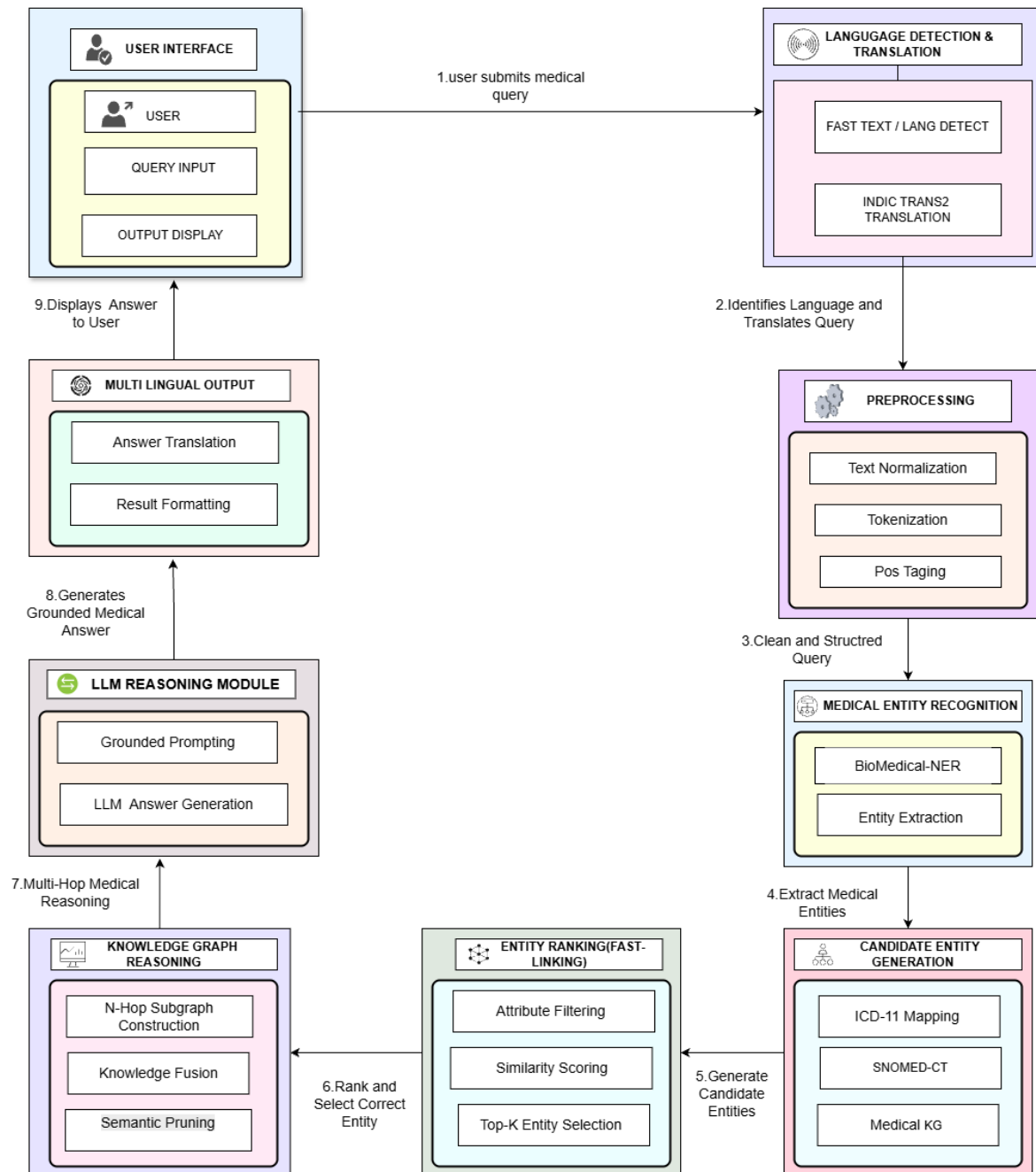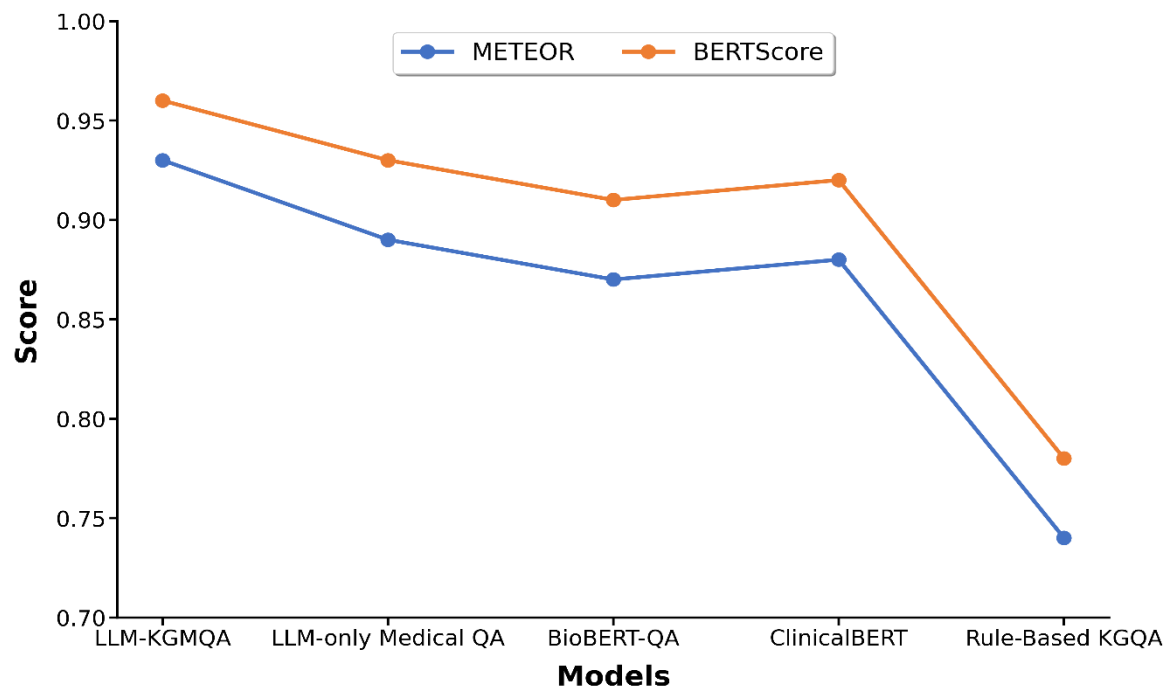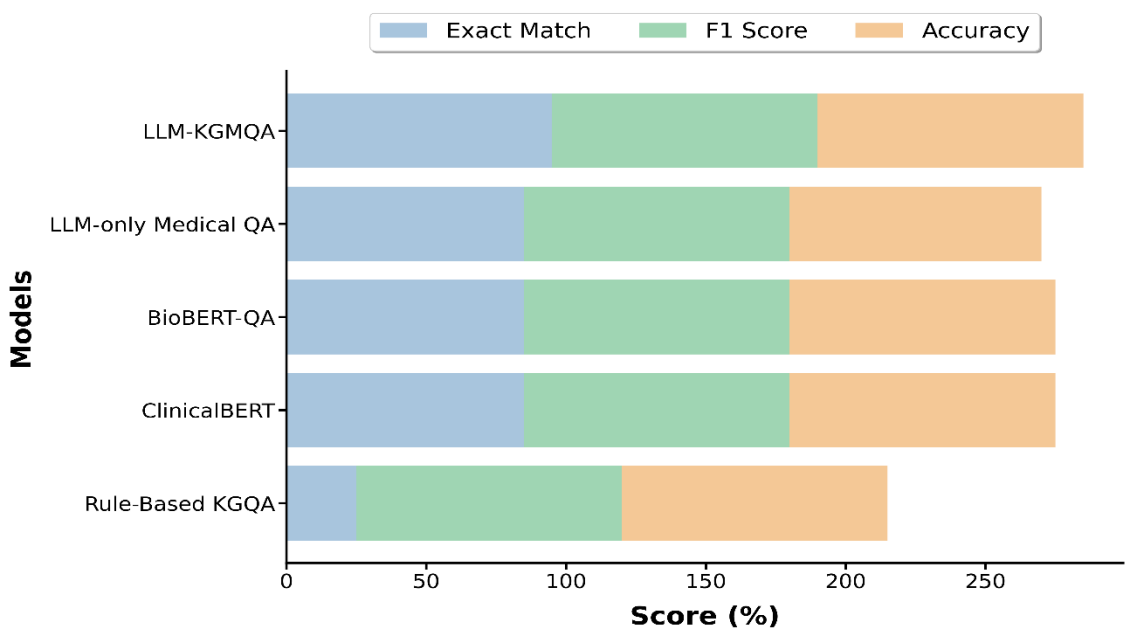**Figure 1:**

Multilingual, knowledge grounded medical question answering paradigm that combines Large Language Models with structured medical knowledge graphs to enable accurate, interpretable, and clinically reliable multi-hop reasoning.
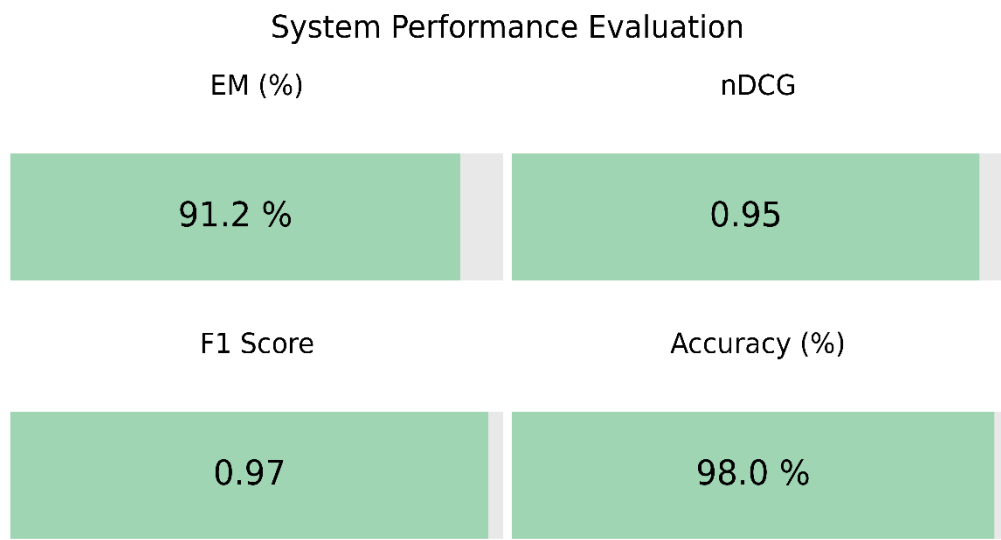
Figure 2:

Language model performance comparision of LLM-KGMQA with baseline Medical QA models.
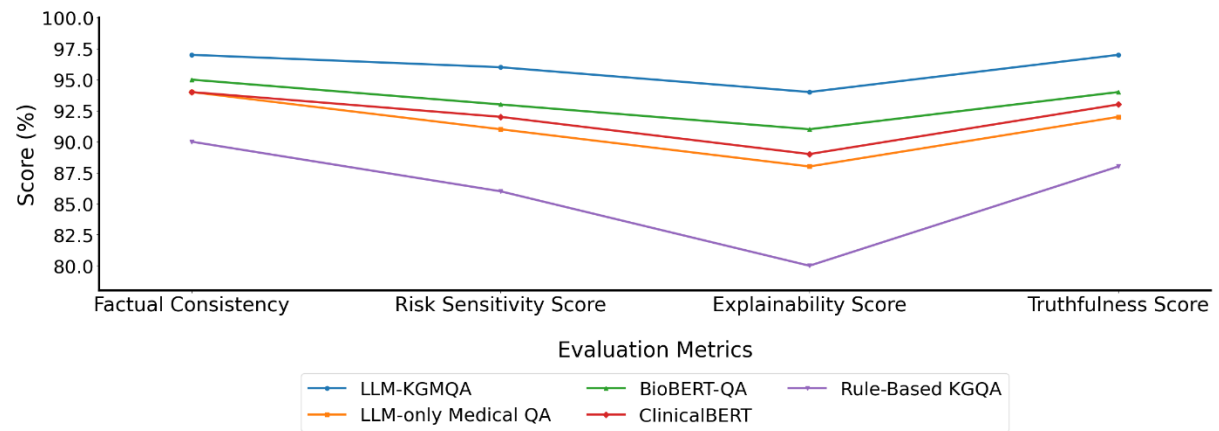
Figure 3:

Comparison of medical answer performance showing improved accuracy and reasoning reliability of LLM-KGMQA over baseline models.
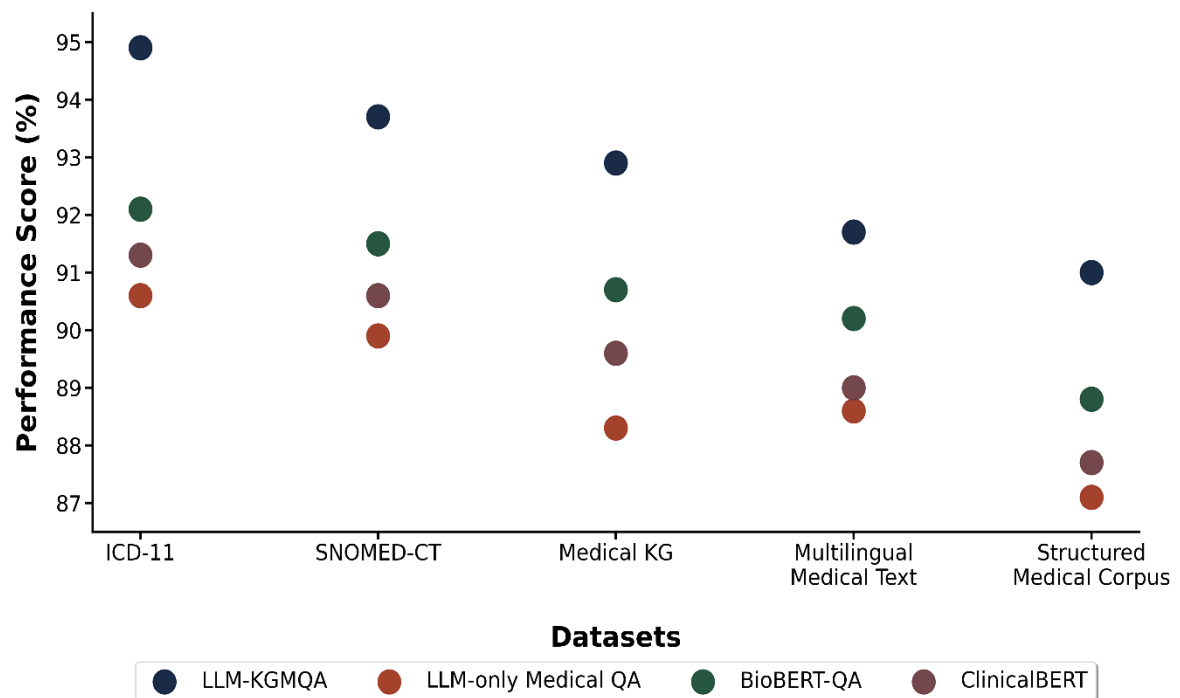
Figure 4:

LLM-KGMQA is evaluated using EM, F1, nDCG, and Accuracy, showing improved factual correctness through structured knowledge grounding.

Figure 5:

Compliance evaluation highlighting the reliability and safety of LLM-KGMQA in medical question answering.

Figure 6

Comparison of LLM-KGMQA accuracy across standardized and diverse medical benchmark datasets.