Suppl. 2. Search strategies with Boolean terms.

Database	Search term
PubMed	((("emergency department" OR "emergency medicine") AND ("large language model" OR LLM OR "LLM agent" OR "multi agent" OR "multi-agent") AND ("clinical decision support" OR ESI OR "emergency severity index" OR KTAS OR "Korean triage and acuity scale" OR triage OR documentation OR benchmark OR evaluation)) OR (("large language model" OR LLM) AND workflow* AND "clinical decision support" AND triage AND referral AND diagnosis))[tiab]
Scopus	TITLE-ABS-KEY((((("emergency department" OR "emergency medicine") AND ("large language model" OR LLM OR "LLM agent" OR "multi agent" OR "multi-agent") AND ("clinical decision support" OR ESI OR "emergency severity index" OR KTAS OR "Korean triage and acuity scale" OR triage OR documentation OR benchmark OR evaluation)) OR (("large language model" OR LLM) AND workflow* AND "clinical decision support" AND triage AND referral AND diagnosis)))
Web of Science	TS=((((("emergency department" OR "emergency medicine") AND ("large language model" OR LLM OR "LLM agent" OR "multi agent" OR "multi-agent") AND ("clinical decision support" OR ESI OR "emergency severity index" OR KTAS OR "Korean triage and acuity scale" OR triage OR documentation OR benchmark OR evaluation)) OR (("large language model" OR LLM) AND workflow* AND "clinical decision support" AND triage AND referral AND diagnosis)))
CINAHL	(((TI ("emergency department" OR "emergency medicine") OR AB ("emergency department" OR "emergency medicine")) AND (TI ("large language model" OR LLM OR "LLM agent" OR "multi agent" OR "multi-agent") OR AB ("large language model" OR LLM OR "LLM agent" OR "multi agent" OR "multi-agent")) AND (TI ("clinical decision support" OR ESI OR "emergency severity index" OR KTAS OR "Korean triage and acuity scale" OR triage OR documentation OR benchmark OR evaluation) OR AB ("clinical decision support" OR ESI OR "emergency severity index" OR KTAS OR "korean triage and acuity scale" OR triage OR documentation OR benchmark OR evaluation))) OR ((TI ("large language model" OR LLM) OR AB ("large language model" OR LLM)) AND (TI (workflow* AND "clinical decision support" AND triage AND referral AND diagnosis) OR AB (workflow* AND "clinical decision support" AND triage AND referral AND diagnosis))))