

**Table S1** The search strategy summary

Items	Specification
Date of search	15 October 2024
Databases and other sources searched	PubMed, Scopus, Google Scholar, and WOS
Search terms used	MeSH terms were used: “haematological malignancies”, “artificial intelligence”, “diagnosis”, “treatment”, and “prognosis”  Free text search: “AI in leukemia diagnosis”, “AML machine learning”, “neural networks hematology”, “digital morphology leukemia”, and “AI cytogenetics”
Timeframe	2017 to 2024
Inclusion and exclusion criteria	Inclusion criteria: English original article and provided relevant information  Exclusion criteria: articles published in languages other than English, review articles, conference papers, book chapters and unrelated topics
Selection process	The selection of studies for this review was conducted solely by the author (R.O.A.). All titles, abstracts, and full-text articles identified through the database search were screened independently by the author. Study eligibility was assessed based on predefined inclusion and exclusion criteria. As this review has a single author, consensus procedures were not applicable

AI, artificial intelligence; AML, acute myeloid leukaemia; MeSH, medical subject headings; WOS, Web of Science.