S ystematic

R eview

rtificial

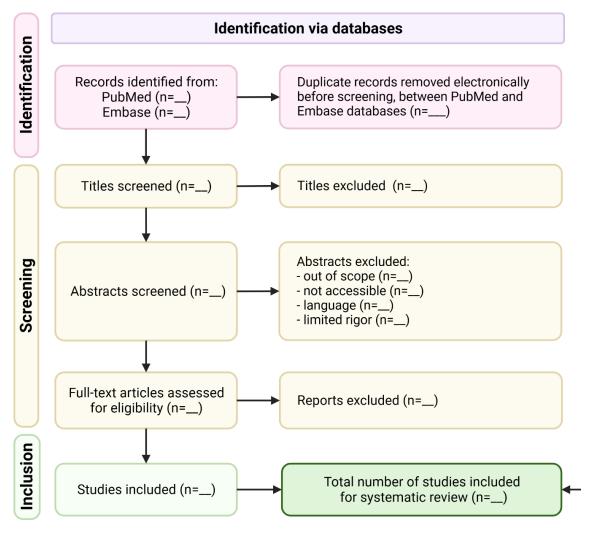
ntelligence

CEB

Department of Clinical Epidemiology and Biostatistics



PRISMA flow diagram



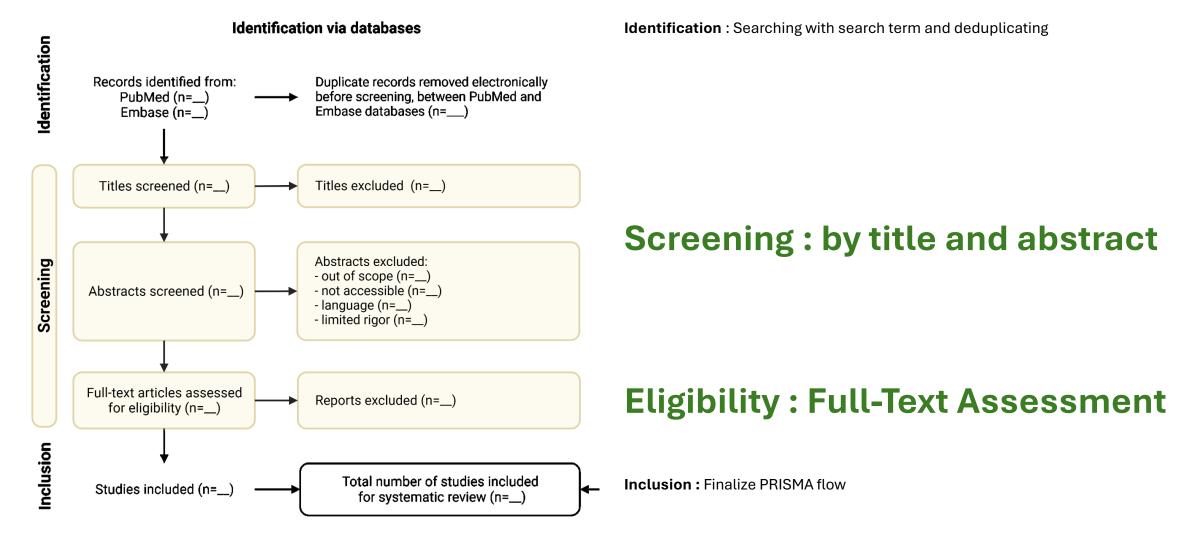
Identification: Searching with search term and deduplicating

Screening: by title and abstract

Eligibility: Full-Text Assessment

Inclusion: Finalize PRISMA flow

PRISMA flow diagram











Topic: Mesh position for hernia prophylaxis after midline laparotomy: A systematic review and network meta-analysis of randomized clinical trials



Abstract Screening



P (Population)

Adults who underwent abdominal surgery with midline incision (includes (emergent) midline laparotomy), NOT secondary abdominal fascia closure or laparoscopic incisions.

I&C (Intervention & Comparator)

Comparisons of any pair of mesh techniques (which are but not limited to 1. Onlay mesh 2. Retrorectus mesh 3. Preperitoneal mesh, 4 Intraperitoneal mesh), or between any mesh techniques and primary suture closures (or no mesh); **EXCLUDE** comparison between primary suture closures.

O (Outcome)

Include at least one of the primary (incisional hernia that is only occurred at incision wound, **EXCLUDE** ostomy wound, such as parastomal, obturator hernia) or secondary outcomes (wound infection, seroma, hematoma, dehiscence, acute postoperative pain, chronic pain, abdominal closure time, and mesh removal rate)

S (Study Design)

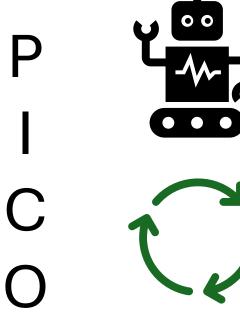
Randomized controlled trial













Select known 2-3 included papers and 2-3 excluded paper







From

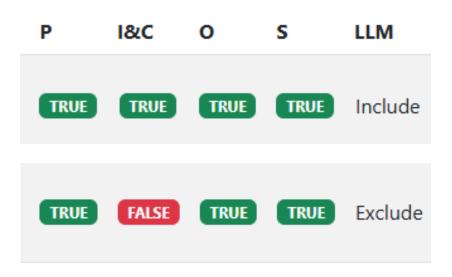
{PICO}

Read this paper

{Title}

{Abstract}

And judge this title abstract match with PICO above with reason in sequence.







Abstract Screening



Detailed Screening Results

Cardiac Arrest: A Systematic Review

Paper Title	Р	I&C	0	s	LLM	Truth	Туре
AI-Driven Innovations for Early Sepsis Detection by Combining Predictive Accuracy With Blood Count Analysis in an Emergency Setting: Retrospective Study	TRUE	TRUE	TRUE	TRUE	Include	Exclude	FP
AI-Enabled Public Surveillance Cameras for Rapid Emergency Medical Service Activation in Out-of-Hospital Cardiac Arrests	TRUE	TRUE	TRUE	TRUE	Include	Include	TP
Anti-Amyloid Therapies for Alzheimer's Disease and Amyloid- Related Imaging Abnormalities: Implications for the Emergency Medicine Clinician	TRUE	FALSE	TRUE	TRUE	Exclude	Exclude	TN
Applications of Artificial Intelligence in Out-of-Hospital	TRUE	TRUE	TRUE	TRUE	Include	Include	ТР

TRUE

TRUE

TRUE

TRUE

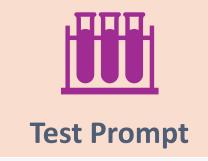
Confusion Matrix

	Actual Condition			
	Include	Exclude		
Predicte	TP: 2	FP: 1		
icted	FN: 0	TN: 1		

Abstract

TP

Include Include







Abstract Screening

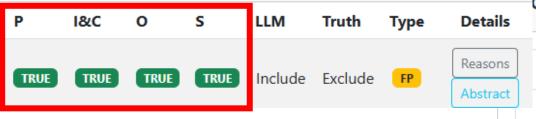
Full-Text Screening

Predicted

Detailed Screening Results

Paper Title

AI-Driven Innovations for Early Sepsis Detection by Combining Predictive Accuracy With Blood Count Analysis in an Emergency Setting: Retrospective Study



Final reason : All PICOS criteria (Population, Intervention & Comparator, Outcome, and Study Design) are met or potentially met based on the abstract, aligning with the inclusion criteria for the systematic review.

P: Reason: The study population consists of patients in an ICU setting and outpatients, which aligns with the broad "patient" criterion.

Intermediate Answer (Population described?):

The study population includes ICU patients with suspected pneumonia-induced sepsis and stable outpatients as controls. It also mentions vulnerable populations like older adults, ICU patients, and those with compromised immune systems.

Intermediate Answer (Matches criteria?):

Yes, this population matches the P criterion of "Emergency medical services or patient" as it clearly involves patients in a critical care setting and outpatients.

1&C: Reason: The study clearly describes the use of AI and machine learning models as the intervention.

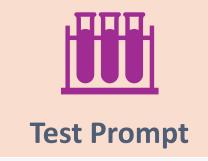
Intermediate Answer (I&C described?):

The intervention is an AI-clinical decision support system (AI-CDSS) that uses machine learning models and complete blood count with differential (CBC+DIFF) data for early sepsis detection. While a specific comparator group is not explicitly detailed as a separate intervention, the models are assessed for predictive accuracy, implying a comparison against existing diagnostic capabilities or outcomes.

Intermediate Answer (Match criteria?):

onfusion Matrix

Actual Condition						
Include	Exclude					
TP: 2	FP: 1					
FN: 0	TN: 1					







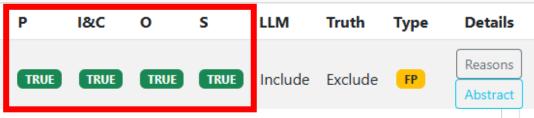
Predicted

Abstract Screening

Detailed Screening Results

Paper Title

AI-Driven Innovations for Early Sepsis Detection by Combining Predictive Accuracy With Blood Count Analysis in an Emergency Setting: Retrospective Study



onfusion Matrix

Actual Condition						
Include	Exclude					
TP: 2	FP: 1					
FN: 0	TN: 1					

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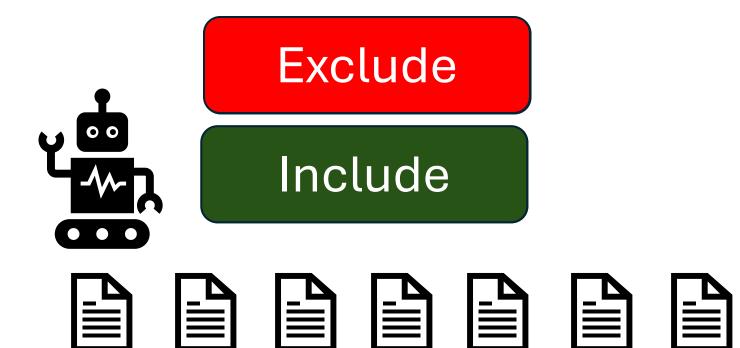
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Intermediate Answer (Match criteria?):

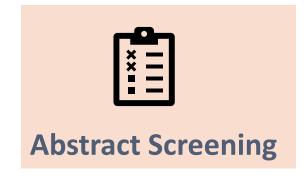




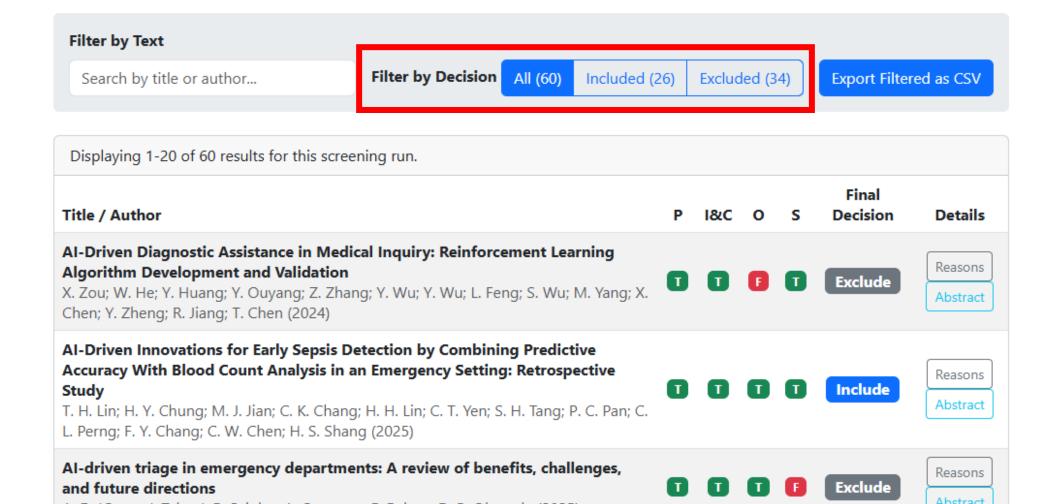




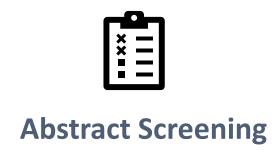


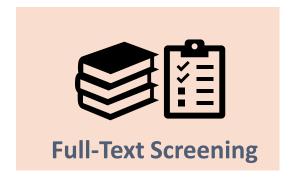


















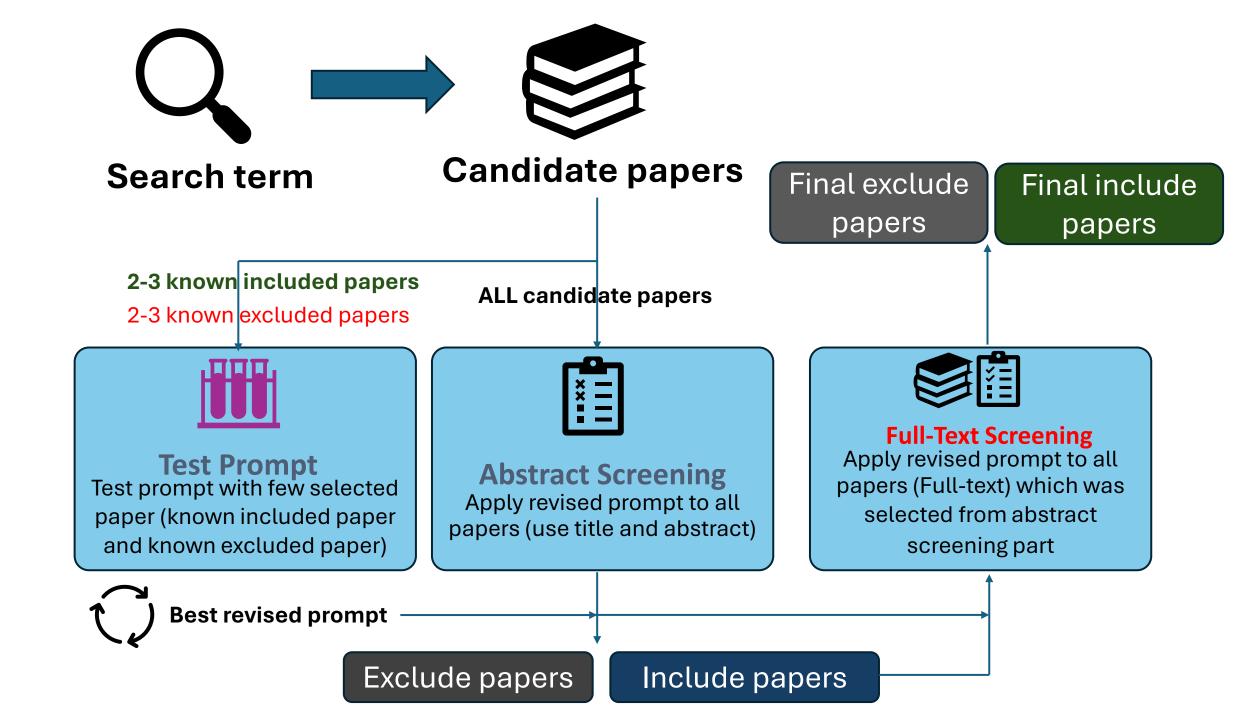


















Test prompt with few selected paper (known included paper and known excluded paper)

Apply revised prompt to all papers (use title and abstract)

Apply revised prompt to all papers (Full-text) which was selected from abstract screening part