

Simulation Based Training in to Clinical Competence among Nursing Students: Systematic Review

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INTRODUCTION

Simulation Based Training is a teaching methodology that utilized real clinical scenarios that prepare nursing students to understand the events of a safe environment.

METHODOLOGY

The review of different literature was frame on research question among nursing students how does simulation based training methods (scenario based simulation and High fidelity) compared to traditional teaching method (return demonstration) affect clinical competence.

SEARCH STRATEGIES

A systematic review as an methods in analysis. EBSCO, PubMed, Elsevier, CINAHL ERIC and google scholar data bases was utilized in searched for relevant articles published between March 2020 to March 2025.

SCREENING PROCESS

A total of two independent reviewers screen all titles and abstract to determine eligibility based on inclusion and exclusion criteria. Two full text review, 1 disagreement resolution, two reviewer for data extraction and two reviewer for quality appraisal.



OBJECTIVES

To synthesize the literature findings on the usefulness and implementation of simulation based training among nursing students.



DATA EXTRACTION

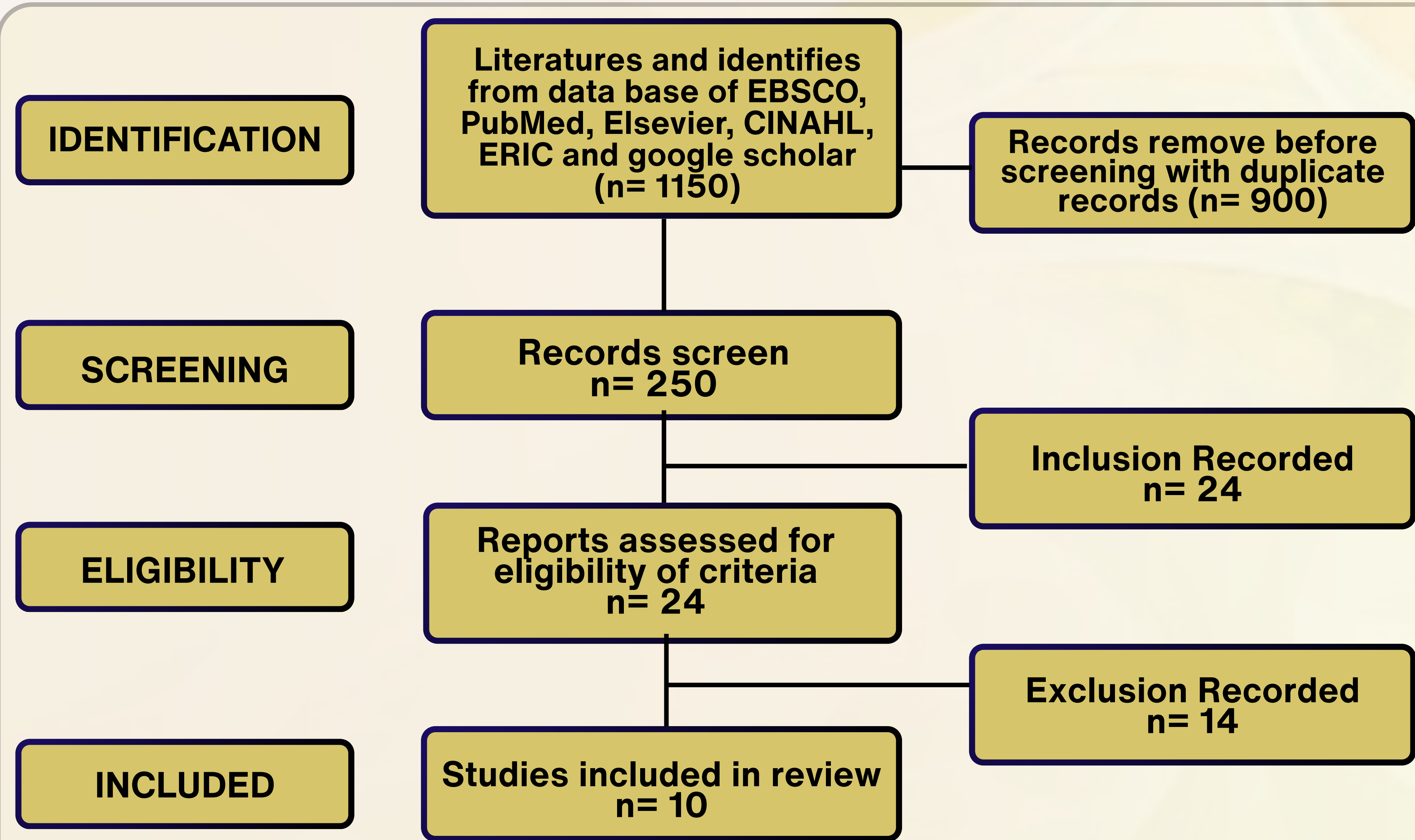


Figure 1. PRISMA Flow Diagram of Literature search

Quality Appraisal

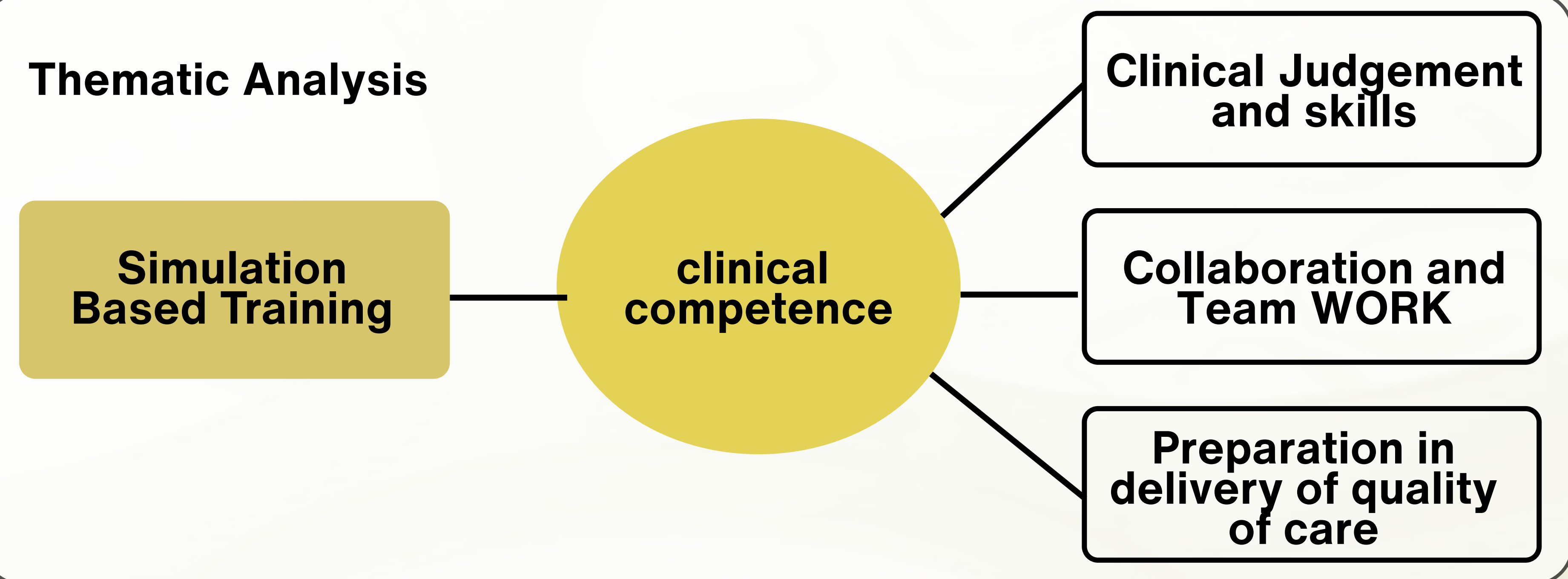
The Joanna Briggs Institute (JBI) checklist

Data Synthesis

The data from the 10 studies were synthesized through Thematic analysis

Result

Eight of the ten studies reported statistical significant improvements in clinical judgment achieving positive result in meeting objectives. Two showed partially negative result due to "bad execution".



IMPLICATIONS

Scenario-based simulation using high fidelity mannequin can bridge gap between theory and practice allowing nursing students to develop clinical competence and confidence in the application of standardized patient care.

Simulation enhance clinical judgement as transformative approach which offer safe decision-making skills.

It helps to develop both critical thinking and critical skills to solve problems and promote team collaboration.

CONCLUSION

Simulation based training enhance clinical competence in creating safe clinical environment among nursing students. It enables to bridge the gap between theoretical knowledge and clinical practice.

