

OAKLAND UNIVERSITY WILLIAM BEAUMONT

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Introduction

- Veterans have unique social determinants of health, including but not limited to military exposures, mental health disorders, PTSD, depression, anxiety, smoking/drug use, traumatic injuries, chronic pain, and homelessness.^[1,2]
- An increasing number of veterans are receiving healthcare through civilian institutions, aided by the MISSION Act.^[3-5]
- Most providers have limited knowledge, comfort, or cultural training on topics of military/veteran-related healthcare.^[6-9]
- Through standard 7.6, the Liaison Committee on Medical Education (LCME) expects adequate veteran care education in medical school curriculum.^[10]
- A curriculum inventory done by AAMC on veteran care instructional methods showed majority were mandatory and lecture-based. Outcome measures were not analyzed.^[11]

Aims and Objectives

- To identify and examine what educational interventions were implemented in medical schools
- To investigate how these interventions were evaluated
- To determine what impact these interventions had on medical students with regard to veteran health care.

Methods

Search Strategy

- **Databases**: PubMed, Embase, PychINFO, and Web of Science
- **Keywords**: "veterans health," "veterans," "veterans health services," "medical students," "undergraduate medical education," and "medical schools."

Screening

- 2-step approach performed through Covidence platform
 - 1. Title and abstract screening
 - 2. Full-text article selection
- The PRISMA flow diagram was used to complete the screening process, as depicted in figure 1.^[12]

Inclusion Criteria

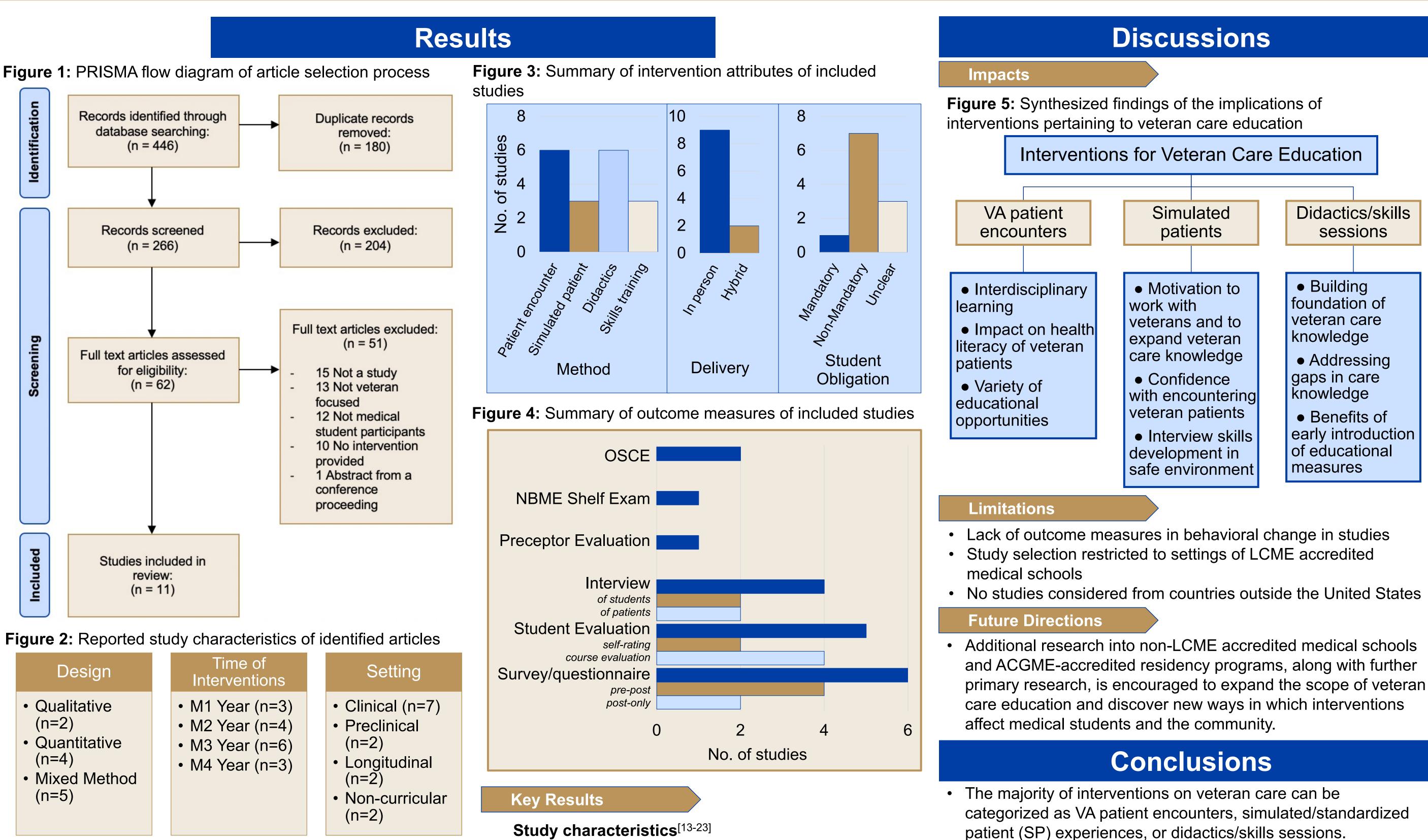
• Articles on interventions and approaches to integrating veteran health into the curriculum in undergraduate medical education

Exclusion Criteria

 Not a study, not related to undergraduate medical education, and not covering interventions pertaining to veterans in medical education

Data Extraction

- A standard data extraction form was created and piloted on two sample studies. Extraction of data was performed through Covidence software platform.
- Kirkpatrick Evaluation Model was used to categorize types of learning outcomes.
- A qualitative systematic review was conducted.



Level	Description	No. (%) of studies
1	Reaction: notes participants' thoughts/feelings about the intervention	4 (36%)
2	Learning: measures change in knowledge, skills, or attitude due to intervention	5 (45%)
3	Behavior/Transfer: assesses application of learning in everyday environment	0 (0%)
4	Results: evaluates contributions/ impacts of program, notably patient outcomes or career paths/ preferences	2 (18%)

Veteran Care in Undergraduate Medical Education: **A Systematic Review**

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Table 1: Categorization of intervention outcomes with the
 Kirkpatrick Evaluation Model

- Study Design: most commonly mixed method (n = 5) • Participants: majority 3^{rd} year medical students (n = 6) • Setting: most occurred within a clinical setting (n = 7) (Figure 2)

Interventions^[13-23]

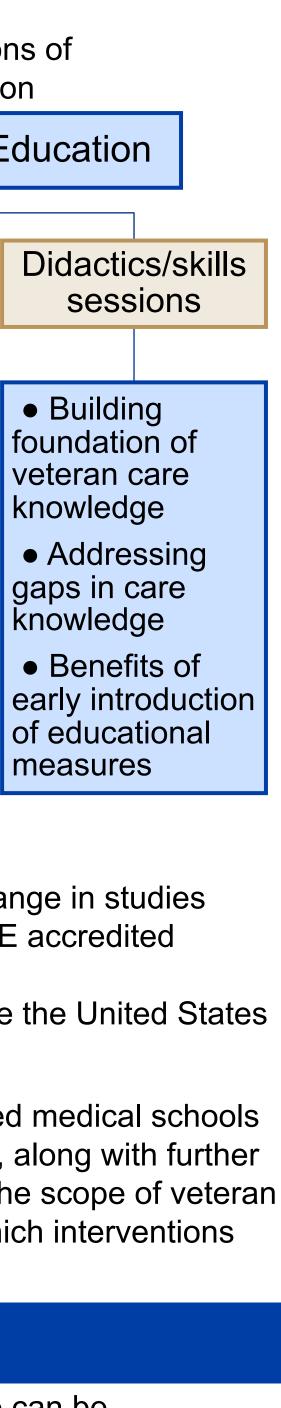
- didactic sessions most common (Figure 3) "Learning" (n = 5) (Table 1)
- Ranged from 15 minutes to 16 months in duration Mostly in-person and non-mandatory Involvement of direct patient encounters and/or More learning outcomes of "Reaction" (n = 4) and

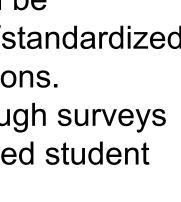
Outcome Measures^[13-23]

• Surveys (n = 6) and student evaluations (n = 5) were most utilized. (Figure 4)

- Most intervention outcomes were measured through surveys and student evaluations, which primarily addressed student reaction and learning outcomes.
- Each intervention had a unique subset of implications which should be considered before implementation into curricula.
- Overall, veteran care educational methods appeared to have positive effects on students and veteran patients.

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