# A Literature Scoping Review: Paramedic Paediatric Readiness for Trauma: Self-Efficacy, Attitudes and **Confidence** (PARTSEAC)

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## Introduction

- <sup>43</sup> Children ≠ small adults<sup>1-8</sup>
- <sup>42</sup> Paramedics underprepared for paediatric patients (PP) with high-acuity, low-occurrence (HALO) emergencies<sup>9-13</sup>
- Paramedics' confidence varies with the child's age. As the age of the patient increases, so does their confidence  $^{\rm 14\mathchar`17}$

Research Aim: To explore paramedics' perspectives, including final-year students, on their knowledge, comfort, and confidence in attending critically ill paediatric and paediatric trauma patients.

# Methods

Information sources: Databases, reference lists, Google Scholar.

CINAHL Complete EMBASE ProQuest Scopus

OVID EMCARE OVID MEDLINE Web of Science

Inclusion criteria: Studies evaluating paramedics' comfort, confidence, and attitudes towards critically ill paediatric patients.

**Exclusion criteria:** Studies not in pre-hospital environments or with less than 50% paramedic sample, not peer-reviewed articles, systematic reviews/meta-analysis

#### Screening and Quality Assessment:

Quality assessed using JBI Levels of Evidence.

### Results

Articles Identified: 20<sup>8-14, 18-30</sup>

#### **Overall Methodology**

| Quantitative:  | n=9; 45% <sup>8, 10-12, 24-26, 28</sup>      |
|----------------|--|
| Qualitative:   | n=8; 40% <sup>9, 13, 14, 18, 20-23, 30</sup> |
| Mixed Methods: | n=3; 15% <sup>19, 27, 29</sup>               |

#### 4 Themes Identified:

Theme 1: Paramedics' Comfort, Confidence and Knowledge<sup>8-15, 19-21, 23, 24, 27, 30</sup>

•Lower comfort levels for paediatric care; limited exposure affects confidence and skills. •Significant discomfort was reported, especially with

- critically ill paediatric patients. Theme 2: Paramedic Anxiety<sup>8-11, 13, 14, 19, 20, 23, 28, 30</sup>
- Increased anxiety attending paediatrics.
- •High anxiety in paediatric emergencies affects decisionmaking and care quality.

#### Theme 3: Paramedic Paediatric Training and Education 8-15, 19-25, 27-29

- Limited initial training and exposure impact paediatric care quality; continuing education (CE) increases comfort more than paediatric-specific CE.
- Limited exposure impacts confidence and skills; simulation-based training (SBT) improves comfort, proficiency, and confidence.
- Training should include online education and SBT for realistic practice and feedback.
- Education barriers include training quality, cost, time, access, and infrequent paediatric interactions.
- More in-service training is desired.
  Theme 4: Paramedic Equipment<sup>8, 10-13, 15, 23-26, 28, 30, 31</sup>
- Specialised paediatric equipment is crucial but often needs improvement or more availability.
- Proper equipment and training on its use are essential for effective paediatric care.

# Conclusions

- Targeted Training Needed: Enhance skills and confidence in paediatric care.
- Focus on Younger Age Groups: Address confidence and communication challenges with neonates and infants.
- Improved Outcomes: Better training programs lead to improved care for paediatric trauma patients

# Literature identified in the

review



