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

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Introduction

- ⁴³ Children ≠ small adults¹⁻⁸
- ⁴² Paramedics underprepared for paediatric patients (PP) with high-acuity, low-occurrence (HALO) emergencies⁹⁻¹³
- 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Exclusion criteria: Studies not in pre-hospital environments or with less than 50% paramedic sample, not peer-reviewed articles, systematic reviews/meta-analysis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^{8-14, 18-30}

Overall Methodology

Quantitative:	n=9; 45% ^{8, 10-12, 24-26, 28}
Qualitative:	n=8; 40% ^{9, 13, 14, 18, 20-23, 30}
Mixed Methods:	n=3; 15% ^{19, 27, 29}

4 Themes Identified:

Theme 1: Paramedics' Comfort, Confidence and Knowledge^{8-15, 19-21, 23, 24, 27, 30}

•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^{8-11, 13, 14, 19, 20, 23, 28, 30}
- 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^{8, 10-13, 15, 23-26, 28, 30, 31}
- 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



