

# Best Practices of Pain Assessment in Pediatric Clients: A Comprehensive Review

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## **Abstract**

*Pain assessment in pediatric populations is a critical yet complex component of clinical care due to developmental variability, communication barriers, and subjective interpretation of pain. This comprehensive review synthesizes evidence from 2020–2025 to identify best practices in pediatric pain assessment. Emphasis is placed on developmentally appropriate tools, self-report measures as the gold standard, behavioral and physiological indicators for non-verbal children, and multidimensional pain evaluation.<sup>1</sup> The importance of reassessment, documentation, and family-centered care is highlighted. Barriers such as inadequate training, inconsistent tool utilization, and systemic constraints are also discussed. Strengthening interdisciplinary collaboration, standardizing protocols, and enhancing nursing competencies are essential for improving pediatric clients pain management effectively in clinical settings.*

**Keywords:** Pediatric pain, assessment tools, FLACC, FPS-R, nursing care, child health

## **Introduction**

Pain is one of the most common yet under-recognized symptoms in pediatric healthcare. Children's ability to perceive and express pain varies significantly based on age, cognitive development, and emotional state. Ineffective pain assessment may lead to long-term consequences such as chronic pain, anxiety, and avoidance of healthcare services. Advances in pediatric pain science have led to the development of various validated assessment tools;

however, their application remains inconsistent in clinical practice. This review aims to provide an evidence-based synthesis of best practices in pediatric pain assessment for clinical and academic use.<sup>2</sup>

## **Methods**

A narrative review methodology was adopted. Literature was retrieved from databases including PubMed, Scopus, and Google Scholar for the period 2020–2025. Search terms included 'pediatric

pain assessment', 'pain scales in children', and 'nursing pain management'. Inclusion criteria comprised peer-reviewed articles, systematic reviews, and clinical guidelines in English. Data were synthesized to identify key themes and best practices.<sup>3</sup>

**Results**

Findings indicate that optimal pediatric pain assessment requires a combination of approaches tailored to developmental

level. Self-report tools such as FPS-R and NRS are effective in older children, while behavioral scales like FLACC and NIPS are essential for infants and non-verbal children. Multidimensional assessment incorporating intensity, duration, emotional state, and functional impact is critical. Continuous reassessment and proper documentation enhance treatment outcomes. Family involvement significantly improves the accuracy of pain evaluation.<sup>4,5</sup>

**Table 1: Pain Assessment Tools by Age Group**

Age Group	Tool	Type	Key Features
Neonates	NIPS, NFCS	Behavioral	Facial expression, crying, breathing patterns
Infants	FLACC, NIPS	Behavioral	Leg movement, activity, consolability
Toddlers	FLACC	Behavioral	Crying, posture, facial cues
Preschool	FPS-R, FLACC	Mixed	Faces scale + observation
School-age	FPS-R, NRS	Self-report	Numeric and visual scales

Adolescents	NRS, VAS	Self-report	Abstract pain scoring
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**Table 2: Comparison of Common Pain Scales**

Scale	Type	Age	Advantages	Limitations
FLACC	Behavioral	0–7 yrs	Simple, widely used	Subjective interpretation
FPS-R	Self-report	≥4 yrs	Child-friendly	Requires understanding
NRS	Self-report	≥6 yrs	Quick and simple	Not for young children
NIPS	Behavioral	Neonates	Infant-specific	Limited age range

**Discussion**

The findings reinforce that no single tool is universally applicable across all pediatric age groups. Individualized assessment strategies are necessary. Barriers such as lack of training, time constraints, and inconsistent use of standardized tools persist in clinical settings<sup>6</sup>. Addressing these challenges requires structured education programs, institutional protocols, and interdisciplinary collaboration among healthcare professionals. Integrating psychosocial factors and family-centered care further enhances the effectiveness of pain assessment.<sup>7</sup>

**Conclusion**

A comprehensive, developmentally appropriate, and multidimensional

approach is essential for accurate pediatric pain assessment. Emphasizing self-report, behavioral tools, family involvement, and continuous reassessment can significantly improve clinical outcomes<sup>8</sup>. Future efforts should focus on training, policy implementation, and research to bridge the gap between evidence and practice.

**References**

1. Trottier ED, Ali S, Doré-Bergeron MJ, Chauvin-Kimoff L. Best practices in pain assessment and management for children. *Paediatr Child Health*. 2022;27(7):429–437.

2. Sansone L, Gentile C, Grasso EA, et al. Pain evaluation and treatment in children. *Children (Basel)*. 2023;10(7):1212.
3. Manworren RCB, Stinson JN. Pediatric pain measurement. *Semin Pediatr Neurol*. 2023;47:101074.
4. Arabiat D, Mörelius E, et al. Pain assessment tools in infants. *BMC Pediatr*. 2023;23:307.
5. Atefeh S. Barriers in pediatric pain management. *BMC Anesthesiol*. 2025;25:148.
6. Manocha S, Taneja N. Assessment of paediatric pain: a critical review. *J Basic Clin Physiol Pharmacol*. 2016;27(4):323-331. Available from: <https://pubmed.ncbi.nlm.nih.gov/26887035/>
7. Palermo TM, Valrie CR, Karlson CW. Family and parent influences on pediatric chronic pain: a developmental perspective. *Am Psychol*. 2014;69(2):142-152.
8. McGrath PJ, Stevens BJ, Walker SM, Zempsky WT. *Oxford Textbook of Paediatric Pain*. Oxford: Oxford University Press; 2013.