

Evaluating and Enhancing Clinical Decision Support for Pediatric Pharmacists:

A Quality Assessment of the Kosmas 4 Kids System

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Abstract

Purpose: The Kosmas 4 Kids program functions as a pharmacy clinical scoring tool, meaning that it systematically evaluates patient-specific data to generate actionable alerts that guide pharmacist interventions. The tool integrates with Epic to apply rule-based logic that identifies when a pharmacist should be alerted. By translating complex clinical scenarios into prioritized alerts, the tool supports pharmacists who float across teams, helping them quickly orientate unfamiliar patients and make timely, informed decisions. The Kosmas program has already been adapted and utilized by adult institutions, but has not been refined to the needs of pediatric patients.

Methods:

This project evaluates Kosmas 4 Kids not only as a scoring mechanism but also as a workflow enhancer—aiming to refine the underlying rules so that alerts are both clinically meaningful and contextually appropriate. The ultimate goal is to reduce alert fatigue while maximizing safety and efficiency in pediatric pharmacy practice. By reviewing the top five triggered rules for each month of data collected, the efficiency and necessity of the rules can be assessed. Then, an ongoing assessment of which rules should be added or rewritten will be conducted to ensure continuous improvement of the program.