

An algorithmic approach refers to the use of a systematic, step-by-step method—often grounded in logic, computation, or structured decision-making—to solve a problem or perform a task.

In the context of healthcare quality improvement (like Shnayder B, Levi MR, Kelmer P, Cohen ZR, Ungar L. “Starting on the Right Foot”: An Algorithmic Approach to Facilitate an Improved ICU Admission Process. Crit Care Nurs Q. 2025 Jul-Sep 01;48(3):274-280. doi: 10.1097/CNQ.0000000000000561. Epub 2025 May 21. PMID: 40423385.), an algorithmic approach typically includes:

Identifying key variables influencing a process (e.g., ICU admission).

Mapping a [flowchart](#) or [protocol](#) based on [evidence](#) or best practices.

Standardizing decisions to reduce variability (e.g., when to admit, what data to collect).

Automating or semi-automating decisions with clear if/then logic.

Using metrics to assess effectiveness and iterate.

This is especially valuable in clinical environments, where decisions need to be fast, reproducible, and justifiable. It reduces errors and improves consistency.

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