Title: Client-centric, point-of-care individualized clinical decision support system (Adaptive hybrid reasoning decision support system)

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Field of Technology/Applications: Information Technology. A simple, user-friendly process to assist doctors, nurses and other caregivers in making informed clinical decisions, and for use in training clinical caregivers.

Benefits:
- Providing treatment guidance tailored to specific patient history
- Allowing clinicians to ask the right questions instead of dictating treatment approaches
- Synthesizing patient case bases in a compact way so information can be harvested and shared efficiently
- Providing quality metrics for case usefulness
- The ability to learn from “useful cases” to update the importance of rules in the rule-based engine

Technology Description:
This invention provides a patient-centric, PDA-based clinical decision support tool that combines both case-based and rule-based reasoning to help clinicians rapidly make informed clinical decisions. The technology provides the best of both case-based (CBR) and rule-based reasoning (RBR) to aid clinicians in making clinical decisions. The invention provides an evidence-based system, individualized to specific patients and integrated into the flow of clinical practice. It reduces risk and identifies clinical problems in an early stage by minimizing decision errors of omission (options that the clinician had not even considered) in situations of clinical uncertainty. This technology is extremely useful in training and supporting new nurses facing atypical situations in acute care environments.

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