

**TiMeDDx - Diagnostic process support system for physicians (Mor)**

Yaron Denekamp, Carmel Medical Center

**Name of Project:** TiMeDDx

**Inventors:** Dr. Yaron Denekamp, Carmel Medical Center and Medical Informatics Unit of the Hospital Division at Clalit Health Services corporate headquarters  
Dr. Mor Peleg, Head of Department of Management Information Systems at Haifa University

**Medical Center:** Carmel Medical Center

**Field of Invention:** Diagnostic process support system for physicians

**Technology:** The system constitutes a paradigm shift in the approach to diagnostic knowledge support. Its novel algorithm simulates the physician's thought process starting with a main clinical problem and guiding the physician through the phases of workup until an accurate diagnosis is made, interactively mentoring the physician through critical decision points. The system requests only relevant clinical data, provides essential information, and recommends the most cost effective diagnostic tests.

**Market:** Healthcare IT markets are growing rapidly and are expected to reach \$53.8 billion by 2014 with an expected 13% annual growth rates.

**Advantages:** The system-

- Helps physicians diagnose problems in a timely and accurate manner, improving patient safety and care.
- Prevents diagnostic errors which pose high medico-legal risks for physicians, hospitals, and healthcare organizations.

Reduces the cost of unnecessary tests and procedures that are a major spending factor in all healthcare systems

- Expected short time to market


**Patent Status:** Patent application pending

**Development Status:** Pre-prototype proof of concept studies successfully performed.

Study published in a top notch peer-reviewed journal (Journal of Biomedical Informatics).

HIPAA compliancy required (information privacy and security standards).

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