MedAware

Eliminating medication errors. Transforming patient safety.

THE PROBLEM

Patients are not getting the safe care and outcomes they deserve.

- Medical errors are the third leading cause of death in the US, and adverse drug events (ADEs) are among the most common of these errors. [1]
- Medication safety issues result in more than 1.5 million patients harmed and hundreds of thousands of deaths annually. [2]
- More than $21 billion per year in the US is wasted due to medication errors. [3]

THE MEDAWARE SOLUTION

Active clinical monitoring powered by big data and machine learning algorithms

MedAware tackles this problem head-on with its data-driven AI solution for patient safety that integrates within electronic medical records, and provides actionable clinical insights at the point of care.

MedAware surveils patients' clinical records and detects medication errors, evolving adverse drug events (ADEs), and patient-specific risk of opioid dependency with unprecedented accuracy.

As a result, in live clinical settings, providers choose to revise their prescriptions more than 80% of the time when they are notified of such risks from MedAware.

This level of success is achieved by using advanced machine-learning capabilities designed to flag outliers and potentially life-threatening medications that conflict with the profile of the patient, physician, or institution.

By continuously monitoring each patient's clinical data, MedAware can catch nearly impossible to anticipate errors that would otherwise go undetected and cause significant harm. Simply stated, MedAware's warnings are those providers really want to receive in order to protect themselves and their patients.

THE MEDAWARE DIFFERENCE

	MEDAWARE	OTHER DECISION SUPPORT SOLUTIONS
ALERT MECHANISM	Machine-learning and adaptive	Rule-based and static
INTERVENTION TYPES	Point of order entry and ongoing surveillance	Point of order entry only
CLINICAL CONTEXT	Core to personalized data-driven insights	Not part of most standardized rule sets
ALERT BURDEN	Low (< 0.1% of Rx)	High (10%-20% of Rx)
FALSE ALARM RATE	Low (<20%)	High (>90%)
ACTIONABILITY	Physicians mostly change prescribing	Physicians mostly ignore

> "There is a need for innovative solutions to address the current prescription errors that result in substantial morbidity, mortality, and wasteful healthcare cost. MedAware's medication error detection system appears to have the ability to generate novel alerts that might otherwise be missed with existing clinical decision support systems."

—Dr. Ronen Rozenblum, Assistant Professor, Harvard Medical School

> "… this approach detects orders which appear to be anomalous in some way, and it represents a very exciting new way to pick these errors up before they get to the patient."

– Dr. David Bates, Professor of Medicine at Harvard Medical School, and Professor of Health Policy and Management at the Harvard School of Public Health

THE RESEARCH

A recent Harvard Medical School study analyzing 800,000 outpatients found that MedAware's data-driven solution was able to identify over 20,000 potentially life-threatening and clinically relevant errors missed by current systems in the market. [4]

MedAware is partnering with Harvard Medical School and Brigham and Women's Hospital to collaborate on additional research into medical errors, patient safety, and using MedAware to save lives in real-world clinical settings. Contact MedAware at research@medaware.com to get involved or learn more.

THE BENEFITS

- Lower costs
- Reduced prescriber risk
- Fewer medication errors and ADEs
- Better patient outcomes
- Actionable clinical insights
- No alert fatigue

LET'S GET STARTED!

MedAware is sharing its life-saving technology with several major US health systems and clinics, and is already integrated within the athenahealth® and Allscripts® electronic health records.

athenahealth   Allscripts®

All others can rest assured that MedAware was designed to make tech teams happy with a hassle-free integration process.

Please contact us at solutions@medaware.com, and we'll show you how to get started.

References:

(1) Makary M, Daniel M. Medical Error – The Third Leading Cause of Death in the US. BMJ 2016;353:i2139

(2) U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. National Action Plan for Adverse Drug Event Prevention. Washington, DC: 2014.

(3) Priorities Partnership. Preventing Medication Errors: A $21 Billion Opportunity. 2010.

(4) Schiff GD, Volk LA, Volodarskaya Mayya, Williams DH, Walsh L, Myers SG, Bates DW, Rozenblum R. Screening for medication errors using an outlier detection system. JAMIA. 2017; 0(0): 1-7