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**RISK MANAGEMENT
EDITION**



Etiometry

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Etiometry

Robust Clinical Intelligence for Improved Critical Care Decisions

In critical care settings, swift identification of patient condition and promptly escalating or de-escalating care as needed are crucial to enhancing clinical efficiency and optimizing hospital costs. An intensive care unit (ICU) is often chaotic due to workforce shortages and resource constraints, making it challenging to analyze the overwhelming amount of patient data, which can lead to suboptimal care and compromised healthcare outcomes.

Etiometry is focused on bringing a sense of calm to that chaos, harnessing the important data elements, and looking deeply into a patient's physiology to be able to provide the means for not only escalating care for patients who are deteriorating but also deescalating care, getting patients off of a ventilator faster or off of their vasoactive medications faster, and getting them out of the ICU sooner, which has far-reaching implications for hospital costs.

Operational in over a hundred pediatric and adult ICUs worldwide, the Etiometry platform streamlines critical care workflows through automation. It stands as the sole clinical intelligence platform that uncovers profound insights into patient physiology, enabling critical care teams to provide both standardized and individualized care.

"Our platform enables a clearer understanding of the etiologies of clinical situations, providing clinicians with comprehensive data for informed real-time decision-making in ICU - at the bedside and remotely," says Shane Cooke, president and CEO of Etiometry.

The platform offers dual functionality as both on-site and remote solutions. The integrated display within electronic health records or the standalone bedside display enhances accessibility. Its remote feature enables clinicians to access information from various locations, including home, the hospital, or on mobile devices.

A core feature of Etiometry's platform is its ability to transform patient data into risk indices. The FDA-cleared risk indices act as early warning systems for clinical deterioration in ICU patients. These algorithms include inadequate delivery of oxygen (IDO2) and inadequate ventilation of carbon dioxide (IVCO2), acidosis (ACD), and hyperlactatemia (HLA) indices. It leverages a comprehensive physiology model to generate visual alerts, providing a real-time objective and continuous assessment of the risk of patient deterioration. These alerts are

valuable cues for clinical teams to escalate or de-escalate care, as necessary.

Etiometry automates workflows within the healthcare environment by incorporating hospital-specific protocols into its platform. For example, the platform can automate a clinical pathway for when a patient is eligible for certain treatments vs. waiting for rounds to check. After automating the process, Etiometry's clinical specialists, train the staff.


Committed to data security, Etiometry has obtained the SOCII and ISO 27001 cybersecurity certifications. It also collaborates with hospital teams to conduct routine security reviews, verify patient information, and maintain data security. A stringent login process integrated with hospital systems further reinforces its determination to maintain a highly secure operational landscape.



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Expediting patients' liberation from ventilators or invasive treatments, Etiometry is pivotal in reducing ICU time and hospital costs. Its impact is evident in collaboration with a healthcare facility assessing and modifying its existing extubation readiness protocols. The Etiometry team conducted a retrospective analysis of data from thousands of patients. A real-time alert was created to identify patients eligible for extubation and make more informed ventilation decisions. Implementation of the alert system resulted in a 19 percent reduction in hospital length of stay and a 22 percent decrease in time spent on ventilation, lowering healthcare costs.

The world-class team at Etiometry brings together passionate individuals from diverse backgrounds encompassing data scientists, software engineers, aerospace engineers, clinicians, and industry veterans. This agile and diverse group considers clients as valued partners and integrates their feedback to fuel innovation to improve the lives of patients and caregivers.

Etiometry's automated platform, adaptable to changing critical care dynamics, delivers unmatched operational efficiency and improved economics to healthcare facilities. Its distinctive analytics approach, combined with AI models, stands out as a transformative force for hospitals and clinicians, reshaping critical care and elevating patient outcomes. 

Shane Cooke,
President and CEO



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Risk Management solutions and transforming businesses*