Biomedical Informatics Grand Rounds

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3:00 pm – 4:00 pm

Harnessing the Power of Artificial Intelligence to Transform Remote Patient Monitoring and Care at Home

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Join Zoom Meeting https://stonybrook.zoom.us/j/95617197636?pwd=KytzZ2pVRG9SZGpKZUtpNXJISjNjZz09
Meeting ID: 956 1719 7636 Passcode: 924293

Bio:
Dr. Skaria is a Board Certified Pulmonary and Critical Care Physician who has been practicing for over 10+ years providing inpatient and tele-ICU services. Dr Skaria is Executive Vice President of Clinical Solutions and Revenue Cycle Management and Co-Founder to VeeOne Health. He has been a part of the growth, development, and instrumental in the various programs including program implementation, product development and heavily involved with sales in Physician Services and Technology. Prior to VeeOne Health, Dr. Skaria was integral in the setup, development and growth in the Tele ICU program for CommonSpirit Health Telemedicine Network (formerly known as DHTN). His experiences with Tele ICU have fueled the passion to bring virtual care across the continuum of care. As a native from New York, Dr. Skaria did his training at Stony Brook University Medical Center where he was heavily involved in Interstitial lung disease research, optimal face-mask usage and respiratory source control with several published papers. He is currently active in Pulmonary and ICU care to patients along with holding several administrative positions, such as ICU and Respiratory Therapy Director and Chief of Staff for a CommonSpirit Hospital, Mercy General Hospital In Sacramento California.

Abstract:
The healthcare landscape is undergoing a significant transformation, driven by the convergence of Remote Patient Monitoring (RPM) technologies, Care at Home models, and Artificial Intelligence (AI). As healthcare systems worldwide continue to prioritize patient-centric care, these innovations are poised to revolutionize how we manage chronic diseases, improve patient outcomes, and deliver personalized healthcare. In this presentation, the goal will provide an in-depth exploration of the critical roles RPM, Care at Home, and AI are playing in shaping the future of healthcare delivery.
Remote Patient Monitoring has emerged as a pivotal tool in chronic disease management, enabling clinicians to continuously monitor patients' vital signs and health metrics in real-time. RPM systems use wearable devices to track key physiological parameters such as heart rate, blood pressure, respiratory rate, oxygen saturation, and more. FDA-cleared medical devices into RPM platforms have empowered clinicians to detect early signs of patient deterioration, enabling timely interventions that can prevent avoidable hospitalizations. Dr. Skaria will highlight the significance of interoperability in RPM systems, which allows seamless data exchange between different health information systems, ensuring that clinicians have comprehensive access to patient data and intern allows reduced hospital readmission rates, improved patient adherence to care plans, and facilitated more efficient management of chronic diseases such as heart failure, diabetes, and chronic obstructive pulmonary disease (COPD).
By incorporating Artificial Intelligence, it has the potential to unlock new insights from the vast amounts of data generated by RPM systems. In this presentation, Dr. Skaria will delve into the ways AI-driven analytics can enhance clinical decision-making by identifying patterns, trends, and correlations in patient data that may not be readily apparent to human observers. Specifically, he will discuss the role of machine learning algorithms in predicting patient deterioration, risk stratification, and automating routine tasks such as alert generation and triage. AI-enabled systems can significantly reduce alert fatigue by filtering out false positives and ensuring that clinicians are only notified of clinically relevant events.

Educational Objectives:

1. Gain a comprehensive understanding of how Remote Patient Monitoring (RPM), Care at Home, and AI will redefine the healthcare delivery model.
2. Understand the shift from reactive to proactive care, focusing on prevention, early intervention, and patient-centered care.
3. Equip healthcare professionals, technologists, and data scientists with the knowledge to implement these technologies in their practices and organizations.
4. Recognize the importance of thoughtful integration of AI into RPM and Care at Home models, considering clinical workflows and healthcare infrastructure.

Disclosure Statement:
The faculty and planners have no relevant financial relationship with ineligible companies, whose primary business is producing, marketing, selling, reselling, or distributing health care products used by or on patients.

Continuing Medical Education Credits:
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