Innovation and Quality Improvement

Current Awareness Bulletin

June 2024

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NHS Clinical Entrepreneur Programme is offering a free 'CEP Prep Programme' Would you like to know more about…

HOW TO PITCH YOUR IDEA 2nd July 2024, 6pm – 7.30pm …are you considering in applying to cohort 9 of the NHS Clinical Entrepreneurs Programme in October? (https://www.youtube.com/watch?v=KGemgokqlj0)

The NHS Clinical Entrepreneur Programme is offering a free 'CEP Prep Programme' which aims to engage and inspire NHS staff and healthcare students to innovate and look for creative solutions to the problems facing healthcare. It provides a valuable foundation to those thinking about applying to the NHS Clinical Entrepreneur Programme. For further details and to register, please see https://nhscep.com/cep-prep-sessions/ The four free learning sessions will take place online via Zoom from the 10th of June – 2nd July 2024.

The programme will be CPD accredited with a certificate of completion issued for those who attend all sessions. Who can apply? The CEP Prep sessions are open to all NHS staff interested in innovation and interested in applying for the NHS Clinical Entrepreneur Programme in October. Healthcare students studying a course that could lead to eventually working in the NHS are also welcome to register. A number of RUH staff are already benefitting from the NHS Clinical Entrepreneur Programme which aims to support the healthcare workforce to develop and scale innovative ideas for the benefit of patients, staff and the wider NHS. RUH staff - If you have any queries, please do not hesitate to get in contact with Darren Hart.

Effect of interventions to improve safety culture on healthcare workers in hospital settings: a systematic review of the international literature.

Finn M. *BMJ Open Quality* 2024;13(2):e002506.

Key experiences for hospital staff impacted by safety culture interventions included increased stress recognition and job satisfaction, reduced emotional exhaustion, burnout and turnover, and improvements to working conditions. Effects were documented for interventions with longer time scales, strong institutional support and theory-informed interventions situated within specific units.

Accelerating Transformation: How to develop effective NHS-industry partnerships guidance published

NHS Confederation

This new guidance, produced by the NHS Confederation and the Association of the British Pharmaceutical Industry, provides a practical, step-by-step guide to help NHS and industry develop, implement and measure partnerships more easily, and deliver the benefits more rapidly. It was created with the expertise of more than 30 NHS and industry leaders and can be used in primary or secondary care settings, or at integrated care board (ICB) level.

Read the guidance here - https://shorturl.at/HkIXm

NHS productivity

This paper from Julian Kelly, Deputy Chief Executive and Chief Finance Officer at NHS England, discusses the effects the pandemic has had on NHS productivity, with details of NHS England's estimates for the drivers of the loss of productivity observed. The paper discusses the emerging plan to improve productivity in the coming years.

Read the report here - https://shorturl.at/RBNa4

NICE and NHS England announce plan to enable innovative tech to be adopted quicker

NHS patients in England will benefit from faster access to the most innovative and cutting-edge medical technologies under new plans announced today

Read the article here - https://shorturl.at/xOAwO

We must fundamentally change the way we think about Artificial Intelligence

UK Parliament

The Science, Innovation and Technology Committee publishes the last report of the 2019-24 Parliament, for its inquiry into the governance of Artificial Intelligence, examining domestic and international developments in the governance and regulation of AI since its August 2023 interim Report.

Read the report here - https://shorturl.at/FKycM

How do oilcloth sessions work? A realist evaluation approach to exploring ripple effects in an implementation strategy.

Kirk JW. *Journal of Health Organization and Management* 2024;38(9):195-215.

To explore the mechanisms of the implementation strategy, "oilcloth sessions" and understand and explain the ripple effects of oilcloth sessions as a strategy to implement a new emergency department.

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1. **5G-enabled smart hospitals: Innovations in patient care and facility management**

Authors: Elendu, Chukwuka;Elendu, Tochi C. and Elendu, Ijeoma D.

Publication Date: /05/17/ ,2024

Journal: Medicine 103(20), pp. e38239

Abstract: Smart hospitals represent the pinnacle of healthcare innovation, leveraging cutting-edge technologies to transform patient care and facility management. This article addresses the pressing need for effective implementation of 5G technology in smart hospitals, aiming to

enhance connectivity, improve patient outcomes, and drive operational efficiency. The methodology employed involves a comprehensive review of existing literature, case studies, and expert insights to analyze the impact of 5G on various aspects of smart hospital operations. The article highlights the significance of 5G technology in enabling real-time data analytics, remote monitoring, and telemedicine, thus revolutionizing healthcare delivery. By providing high-speed, low-latency connectivity, 5G facilitates seamless communication and collaboration among healthcare providers, leading to more efficient diagnosis, treatment, and patient care. Additionally, the adoption of 5G enables smart hospitals to leverage artificial intelligence (AI)-based solutions for predictive analytics, personalized medicine and enhanced patient engagement. Furthermore, the article explores the potential of 5G-enabled smart hospitals in enhancing disaster preparedness and emergency response efforts. Case studies and examples demonstrate how 5G technology can improve situational awareness, coordinate resources, and deliver timely care during natural disasters and pandemics. Overall, this article underscores the transformative impact of 5G technology on smart hospitals and emphasizes the importance of embracing innovation to meet the evolving needs of patients and communities. By adopting 5G technology, smart hospitals can usher in a new era of healthcare delivery characterized by enhanced connectivity, improved patient outcomes, and unparalleled efficiency.; Competing Interests: The authors have no funding and conflicts of interest to disclose. (Copyright © 2024 the Author(s). Published by Wolters Kluwer Health, Inc.)

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1. **Workplace incivility in hospitals: a significant barrier to patient safety and care quality**

Authors: Ben Natan, Merav

Publication Date: /06/13/ ,2024

Journal: Evidence-Based Nursing

Abstract: Competing Interests: Competing interests: None declared.

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2. **Sleeping Safe and Sound: A Multidisciplinary Hospital-wide Infant Safe Sleep Quality Improvement Initiative**

Authors: Butler, Samantha C.;Carroll, Kayleigh;Catalano, Katie;Atkinson, Carole;Chiujdea, Madeline;Kerr, Jessica;Severtson, Katrina;Drumm, Sara;Gustafson, Kathryn and Gingrasfield, Jennifer

Publication Date: /07// ,2024

Journal: Journal of Pediatric Healthcare 38(4), pp. 604-614

Abstract: Promoting safe sleep to decrease sudden unexpected infant death is challenging in the hospital setting. Concern for adherence to safe sleep practice across inpatient units at a large pediatric hospital. Used quality improvement methodologies to promote safe sleep across all units. Development of a multidisciplinary expert group, hospital-wide guidelines, targeted interventions, and bedside audits to track progress. Adherence to safe sleep practices improved from 9% to 53%. Objects in the crib were a major barrier to maintaining a safe sleep

environment. Safe sleep practices were less likely to be observed in infants with increased medical complexity (p =.027). Quality improvement methodology improved adherence to infant safe sleep guidelines across multiple units. Medically complex infants continue to be a challenge to safe sleep. Therefore, ongoing education for staff and further research into best practices for the most complex infant populations are necessary.

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3. **Quality Improvement in Neonatal Care: Successful Adoption of the Eat, Sleep, Console Protocol in a Rural Hospital Setting**

Authors: Phyu, Riley;Bird, Charrell and Gupta, Ashish

Publication Date: /06/11/ ,2024

Journal: Pediatric Quality & Safety 9(3), pp. e739

Abstract: Introduction: The United States faces a growing burden of neonatal opioid withdrawal syndrome in rural hospitals. Traditional treatments often extend hospital stays and medication use. The Eat, Sleep, and Console (ESC) approach offers a new management strategy but is challenging in resource-limited settings. This study aimed to apply ESC in rural hospitals to reduce neonatal intensive care unit admissions, decrease length of stay (LOS) to under 7 days, and lower medication use by more than 80% within a year.; Methods: Our quality improvement initiative at rural hospitals implemented a multimodal approach for in utero opioid-exposed infants, involving staff education, electronic medical record updates, and nonpharmacological care strategies. Data from January 2020 to December 2023 assessed treatment impact, including pharmacotherapy need and hospital stay lengths, using statistical process control for analysis.; Results: After ESC implementation, the percentage of opioid-exposed infants receiving pharmacological treatment significantly decreased from 60.7% to 7.9%. The average LOS was reduced from 14.5 days to 5.25 days. These improvements persisted for 24 months, with no readmissions within 30 days of discharge. This approach also reduced hospital charges by over $5 million, demonstrating its clinical and financial effectiveness.; Conclusions: The multidisciplinary approach successfully implemented ESC in a resource-limited setting, significantly reducing both the LOS and medication exposure for opioid-exposed infants while also saving significant healthcare costs. This successful model has been adopted by at least four regional rural hospitals, thus broadening the program's impact. (Copyright © 2024 the Author(s). Published by Wolters Kluwer Health, Inc.)

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4. **ITS 90 - Advancing Patient Safety: Integration of Real-Time Hospital-Acquired Infection Dashboard in Acute Care Quality Improvement...Association for Professionals in Infection Control and Epidemiology (APIC) 51st Annual Conference and Exposition, June 3-5, 2024, San Antonio, Texas**

Authors: Pinto, Christie and Ausborn, Valerie

Publication Date: /06/02/ Supplement ,2024

Journal: American Journal of Infection Control 52(6), pp. S45

Sources Used:

A number of different databases and websites are used in the creation of this bulletin.

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