

1st System Wide Quality Improvement and Patient Safety Symposium

April 19th, 2024

Quality Improvement and Patient Safety Abstracts

1. **Establishing Best-Practice Guidelines for Confirming Placement of Central Venous Catheters**
 - Daniel Frank, MD, FACEP – Faculty, Emergency Medicine, South Shore University Hospital
 - Mentors/Collaborators: Elizabeth Kasparov and Andrew Zimmerly
 - SMART Aim: To significantly reduce adverse patient outcomes related to arterial cannulation and placement of CVCs at South Shore University Hospital by mid-2024 through the implementation of enhanced confirmation processes, comprehensive staff education programs, and proactive measures to minimize procedural complications, thereby elevating the standard of patient care and ensuring safer clinical practices.
2. **Child Advocacy: Analyzing the Implementation of Social Determinants of Health Screening in an Urban Pediatric Inpatient Medical Center**
 - Abbey Santanello, DO, Resident – Pediatrics, Staten Island University Hospital
 - Mentors/Collaborators: Indu Pathak
 - SMART Aim: To establish and validate a SDoH assessment protocol for all Pediatric inpatients aimed at proving the value of SDoH screening and the screening's ability to satisfy unmet social needs.
3. **Motivations for Mammogram Screening and Enhancing Breast Cancer Screening in a FQHC**
 - Tshering Sherpa, DO, Resident – Family Medicine, Phelps Hospital
 - Mentors/Collaborators: Denisse Janvier and Mary Rose Puthiyamadam
 - SMART Aim: To increase mammogram screening completion among FQHC patients from 55% to 75% by the end of the next fiscal year through a three-phase approach: initial outreach, motivational letters, and personalized phone calls. By evaluating these strategies, we aim to promote patient-centered care, diminish barriers, and enhance breast cancer screening participation.
4. **Optimizing Pneumococcal Immunization Rates in an Academic Geriatrics Practice with a Multifaceted Intervention**
 - Bernardo Acevedo Mendez, MD, Fellow – Geriatrics and Palliative Care, Northshore Long Island Jewish Hospital
 - Mentors/Collaborators: Jee Lee, Oshin Bansode, Phillip Solomon, and Edith Burns.
 - SMART Aim: To increase pneumococcal vaccine (PV) coverage among eligible older adult patients at our Geriatrics practice, aiming to surpass the national average of 65.8% for adults aged >65 years. Through targeted interventions to improve performance, documentation, and reduce disparities, we seek to elevate PV rates across all racial and ethnic groups served by our practice.
5. **A Rare Side Effect of Pimavanserin**
 - Oshin Bansode, MD, Fellow – Geriatrics and Palliative Care, Northshore Long Island Jewish Hospital
 - Mentors/Collaborators: Philip Solomon and Nehal Shukla
6. **Early Detection and Management of Anxiety/Depression in the Critically Ill**
 - Eby Ison Thekkedath, DO, Fellow – Pulmonary & Critical Care, Lenox Hill Hospital
 - Mentors/Collaborators: Margarita Oks, Linda Kirschenbaum, David Roane, and Simona Goshin.
 - SMART Aim: To reduce prevalence of post-discharge anxiety and depression for ICU patients by implementing a screening process using the Hospital Anxiety and Depression Scale (HADS).
7. **Enhancing Parental Confidence in Infant Feeding: The Hungry Baby Guide for Introducing Solids**
 - Naresa Ramjohn, MD, Resident – Staten Island Hospital, Pediatrics
 - Mentors/Collaborators: Selda Ishkin, Anna Cornish and Medije Mashkulli.
 - SMART Aim: To provide caregivers a guide on feeding practices and food introductions to increase parental comfort and confidence with their infants.
8. **Utilization of a penicillin allergy de-labelling reference sheet to enhance resident education.**
 - Albert Wu, MD, Resident – Internal Medicine, Lenox Hill Hospital
 - Mentors/Collaborators: Jonathan Jeong and Andrew Price.
 - SMART Aim: To increase internal medicine residents' knowledge and comfort in managing cases of antibiotic allergies through the implementation of a one-time teaching module.
9. **Increase the Use of Fibrinogen Concentrate in Obstetric Hemorrhage**

- **Gilbert Shi, MD, Resident – Anesthesiology, Northshore Hospital**
 - **Mentors/Collaborators: Song Yun, Seung Yoon, Madina Gerasimov, Judith Aronsohn, Joseph Pena, and Gregory Palleschi.**
 - **SMART Aim:** To increase the utilization of Fibrinogen Concentrate (FC) for managing postpartum hemorrhages at North Shore University Hospital and Long Island Jewish Medical Center through targeted education initiatives for anesthesiologists, alignment with obstetric hemorrhage protocols, and multidisciplinary collaboration, ultimately enhancing patient care and outcomes.
- 10. Blood Culture Contamination Reduction Strategies at a Tertiary Care Center**
- **Fouad Sakr, MD, Resident – Staten Island Hospital, Internal Medicine**
 - **Mentors/Collaborators: Mobarakai Neville and Diab Wassim.**
 - **SMART Aim:** To reduce the rate of BCC in the in-hospital setting of our tertiary care center by doing a simple educational intervention for the healthcare providers based on a 10 stepwise process to collect blood cultures.
- 11. Sustainability in Radiology: Monitor Shutdown**
- **Jessica DeSabato, MD, Chief Resident – Radiology, Northshore Long Island Jewish Hospital**
 - **Mentors/Collaborators: Drew Caplin.**
 - **SMART Aim:** To decrease the carbon footprint of the PACS Workstation monitors by implementing a system wide power consumption saving initiative which puts the PACS station monitors in sleep mode.
- 12. Enhancing Depression Screening Rates: A Prospective Quality Improvement Analysis**
- **Susan Zhang, DO, MPH, Resident – Family Medicine, Phelps Hospital**
 - **Mentors/Collaborators: Mary Rose Joseph Puthiyamadam.**
 - **SMART Aim:** To enhance depression screening rates in our healthcare setting by 10% over two months with a long-term organization goal of 20%.
- 13. To increase colon cancer screening rates among our FQHC patients aged 45-75 by 6% through PDSA cycles and team efforts.**
- **Ruchi Mathur, MD, Faculty – Family Medicine, Phelps Hospital**
 - **Mentors/Collaborators: N/A**
 - **SMART Aim:** To increase colon cancer screening rates among our FQHC patients aged 45-75 by 6% through PDSA cycles and team efforts.
- 14. Keeping The Family Front And Center: Compliance Practices To Ensure Effective Interdisciplinary Bedside Rounds At A Tertiary Medical Center**
- **Logan Greenblatt, MD, Resident – Pediatrics, Staten Island Hospital**
 - **Mentors/Collaborators: Shweta Sharma, Jenna Massaro, Shelly Zou and Indu Pathak.**
 - **SMART Aim:** To implement Family-centered rounds (FCR) to the pediatric inpatient unit to mitigate medical errors, improve family satisfaction, patient care and team dynamics.
- 15. Laryngeal mask airway in pediatric tonsillectomy and adenoidectomy: a large cohort analysis**
- **Travis Peng, BE, Medical Student – Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, ENT**
 - **Mentors/Collaborators: Matthew I. Saleem and Lee P. Smith.**
 - **SMART Aim:** To improve patient comfort and future surgical protocols by encouraging the use of the laryngeal mask airway (LMA) for tonsillectomy and adenoidectomy as a viable option in airway management.
- 16. Machine Learning Methods in Classification of Prolonged Radiation Therapy in Oropharyngeal Cancer**
- **Matthew Saleem, BS, Medical Student – Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Otolaryngology**
 - **Mentors/Collaborators: Tristan Tham and Eun Jeong Oh.**
 - **SMART Aim:** To assess the accuracy of machine learning algorithms compared to traditional methods in stratifying the risk of treatment delay for patients with oropharyngeal squamous cell carcinoma (OPSCC) and correlate risk-stratified groups with survival differences.
- 17. Healthcare Delivery through Interdisciplinary Rounds: Impact on Length of Hospital Stay, Central Line Associated Bloodstream Infections, and Clostridium Difficile Infections**
- **Haizea Alemany, MS, Medical Student – Touro College of Osteopathic Medicine**
 - **Mentors/Collaborators: Indraneil Mukherjee and Prashant Sinha.**

- **SMART Aim:** To assess the effectiveness of implementing interdisciplinary rounds in improving healthcare delivery, reducing Length of Hospital Stay (LOS), Central Line Associated Bloodstream Infections (CLABSIs), and Clostridium Difficile Infections (C.Diff), utilizing retrospective data analysis from January 2022 to December 2023

18. Increasing Depression Screening Rates of Adolescents with Connective Tissue Diseases or Juvenile Idiopathic Arthritis in an Ambulatory Setting

- **Matthew Eremita, MD, Fellow – Pediatric Rheumatology, Cohen Children’s Medical Center**
- **Mentors/Collaborators:** Heather Walters, Dana Sperber, Tatiana Borja, Emily Masi, Faizal Rafick, Smyrne Jean, Nina Skaria, Lydia Thomas, Zanab Mian, Barbara Anne Eberhard, Joyce Hui-Yuen, Beth Gottlieb
- **SMART Aim:** We aimed to increase the rate of semi-annual depression screening using the Patient Health Questionnaire Modified For Adolescents (PHQ-A) among patients aged 13-18 with known diagnoses of CTD or JIA from zero to fifty percent within ten months.

19. Disposable waterproof super absorbent incontinence products reduce incidence of pressure injury in patients and hospital costs.

- **Stefanie Ma, BS, Medical Student – Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Surgery, Comprehensive Wound Care Healing and Hyperbarics**
- **Mentors/Collaborators:** Dorothy Michaels, Amit Rao, and Alisha Oropallo.
- **SMART Aim:** To reduce the number of pressure injuries and moisture of elderly hospitalized patients with moisture damage in hospitalized patients by using only a disposable waterproof super absorbent incontinence product on top of the patient mattresses.

20. Implementation and Compliance to an Enhanced Recovery Protocol for Liver Resections

- **Manav Shah, BS, Medical Student – Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Northwell Health Cancer Institute**
- **Mentors/Collaborators:** Neda Amini, Sandeep Anantha, Basem Azab, Gene Coppa, Nabil Dagher, Danielle Deperalta, Gary Deutsch, Sepideh Gholami, Elliot Grodstein, Michael Kunczewitch, Lawrence Lau, Marcovalerio Melis, Elliot Newman, Richard Newman, Gerardo Vitiello, John Wang, Aaron Winnick, Raza Zaidi, and Matthew Weiss.
- **SMART Aim:** To establish and implement a Enhanced Recovery Protocol (ERP) for liver surgery within a large health system in New York, with the goal of standardizing perioperative care practices, improving patient outcomes, and minimizing variability in patient care across multiple tertiary sites.

21. Implementing asthma action plans in community-based primary care practice

- **Varsha Sridhar, DO, Resident – Medicine, Lenox Hill Hospital**
- **Mentors/Collaborators:** Hehui Quan and Katherine Killian.
- **SMART Aim:** To determine if the effects of implementing an asthma action plan for every adult diagnosed with persistent asthma in accordance with GINA guidelines.’

22. Transformation of Transition of Care and Closer Follow up with Primary Care Provider to Reduce Hospital Readmissions and ER re-visits

- **Tenzing Lama Sherpa, DO, Resident – Family Medicine, Phelps Hospital**
- **Mentors/Collaborators:** Kristen Hernandez and Mary Rose Puthiyamadam
- **SMART Aim:** To reduce the cost to patients and the entire health system by incorporating a timely follow up and transition of care with an outpatient primary care provider (PCP) after discharge from the hospital or the ED.

23. Reducing the Incidence of Rectal Temperatures in Patients with Neutropenia

- **Evan Finger, DO, Resident - Internal Medicine, Lenox Hill Hospital**
- **Mentors/Collaborators:** Kolton Smith, Menna Elaskandrany, and Satvinder Guru.
- **SMART Aim:** To reduce the incidence of rectal temperatures obtained in Neutropenic Patients in 7 Wollman in Lenox Hill Hospital in 2023 in comparison to 2020-2022.

24. Improving cervical cancer screening and colposcopy

- **Luisa Rodriguez-Montoya, MD, Faculty – Family Medicine, Phelps Hospital**
- **Mentors/Collaborators:** Mary Rose Puthiyamadam.
- **SMART Aim:** To improve cervical cancer screening in our patient population through various team-based efforts such as training on appropriate utilization of the ASCCP app to effectively risk stratify abnormal Pap smear results and determine the necessity of colposcopy as the subsequent step.

- 25. The Effect of Retinal View Camera in Primary Care Site on the Screening Rates of Diabetic Retinopathy**
- **Sokka Hak, DO, Resident – Family Medicine, Phelps Hospital**
 - **Mentors/Collaborators: Mary Rose Puthiyamadam.**
 - **SMART Aim:** To increase the number of retinopathy screenings performed in FQHC patients over the age of 18 diagnosed with diabetes. The primary objective was to assess the effectiveness of teleophthalmology using a non-mydratic camera to improve rates of DR screening.
- 26. Improving Asthma Care using Media-Centric Educational Tools**
- **Jenna Massaro, DO, Resident – Pediatrics, Staten Island University Hospital**
 - **Mentors/Collaborators: Pushpom James, Eddie Wu, Sandra Garcia, and Robert Zell.**
 - **SMART Aim:** To assess whether the implementation of instructional videos in multiple languages with closed captioning helps to improve patient inhaler technique and compliance, especially for non-English speaking patients.
- 27. Northshore/LIJ Anesthesia Department Quality Improvement Initiative to Reduce Volatile Anesthetic Waste in the Operating Room**
- **Calvin Huang, BS, Medical Student – Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Anesthesia**
 - **Mentors/Collaborators: Bridgette Bolshem, Julia Kim, Chad Skidmore, Reema Shah, Jasmine Tuteja, Megan Wang, Pankaj Nayyar, Cristian Bartoc, Judith Aronsohn, Greg Palleschi, Madina Gerasimov, and Joseph Pena.**
 - **SMART Aim:** To reduce excessive usage of inhaled volatile gas anesthetics in NSUH operating rooms to achieve an average fresh gas flow (FGF) of less than 2 liters per minute.
- 28. Understanding barriers to HPV vaccines in adolescence patients**
- **Jodi Ann Charlton, MD, Chief Resident – Family Medicine, Phelps Hospital**
 - **Mentors/Collaborators: Mary-Rose Puthiyamadam and Gabriella Zebelman.**
 - **SMART Aim:** To assess the factors contributing to parents of adolescents who refused HPV vaccination in the past year to explore alternative methods of intervention to encourage HPV vaccination.
- 29. Improving the Process for Pre-Operative Optimization in South Shore University's Bariatric Surgery Population**
- **Nicolas Fuentes, MD, Resident – Surgery, South Shore University Hospital**
 - **Mentors/Collaborators: David Pechman, Sandra Angelella, Armando Castro-Tié, Andrew Bates, Maria Mattson, Daniel Caruso, Andrew Adrian, and Brianna Concannon.**
 - **SMART Aim:** To increase our patient retention rate by revitalizing the pre-operative optimization process for the South Shore University's bariatric surgery population.
- 30. Curbing No-Show Rates in Family Medicine Residency**
- **Anjaneyulu Kosaraju, MD, Resident – Family Medicine, Glen Cove Hospital**
 - **Mentors/Collaborators: Paola Wilches, Arlene Yamond, Melissa Henninger, Emanuela Dattolo, Carla Tufenkdjian, Brenda Gomez, and Farideh Zonouzi-Zadeh.**
 - **SMART Aim:** To achieve a 20% reduction in the no-show rate the Family Medicine practice in 2023.
- 31. Decreasing the Time to Surgery for Patients Undergoing Bariatric Surgery: Experience from a Single Academic Center**
- **Caitlin Russell, DO, Fellow – Surgery, Staten Island University Hospital**
 - **Mentors/Collaborators: Dillon Rogando and Olivia Haney.**
 - **SMART Aim:** To adapt a scoring system based pre-operative process for bariatric surgery patients with the outcome to have safely reduce the time from consultation to surgery.
- 32. An automated system for rolling analysis of surgical site infections at a single hospital.**
- **James Duehr, MD, PhD – Resident, Northshore University Hospital, Neurosurgery**
 - **Mentors/Collaborators: Daniel Lynch, Brianna Donnelly, Brandon Santhumayor, Isabelle Pelcher, Michael Schulder and Jamie Ullman.**
 - **SMART Aim:** To create an automated system for analyzing surgical site infections (SSI) in neurosurgery.
- 33. Enhancing Obstructive Sleep Apnea Screening and Sleep Study Referrals Among Patients with Cardiovascular Risk Factors in a Primary Care Clinic**
- **Maikel Kamel, MD, Resident – Medicine, Northshore Long Island Jewish Hospital**

- **Mentors/Collaborators:** Jennifer Verbsky, Jeffrey Lowell, Matthew Means, Wint Yan Aung, Wei Huang, Margaret Locke, Deepti Mahajan, Shafkat Salam, Ashish Samaddar, Cleiford Senra, Javier Ticona and Shruti Varadarajan.
- **SMART Aim:** To enhance obstructive sleep apnea screening and sleep study referrals by administering STOP-BANG to screen for OSA.

34. Reduction in Rate of General Anesthesia for Transcatheter Aortic Valve Replacement through Quality Improvement Initiatives

- **Lee Vitiello, MD, Resident – Anesthesiology, North Shore University Hospital**
- **Mentors/Collaborators:** Gilbert Shi, Alex Grieco, Juan Mauri, Judith Aronsohn, Greg Palleschi, Madina Gerasimov and Joseph Pena.
- **SMART Aim:** To reduce the use of GA for TAVR.

35. Sins of the Past: Meeting the Measure for Statin Use

- **Kyle Yuen, DO, Resident – Family Medicine, Phelps Hospital**
- **Mentors/Collaborators:** Mary Rose Puthiyamadan and Esteban Martinez-Villa
- **SMART Aim:** To improve statin use to meet UDS (uniform data system) measures and reflect if they serve the best interest of the patient. As per UDS, the criteria for statin use is LDL>190, diabetics age 40-75 with LDL>70 and coronary artery disease.

36. Use of Pulmonary Artery Catheter in Cardiogenic Shock Patients Across Different Levels of Care

- **Maikel Kamel, MD, Resident – Medicine, Northshore Long Island Jewish Hospital**
- **Mentors/Collaborators:** Matthew Pierce, Sajal Datta, Marcy Miller, Moein Bayat Mokhtari, Sana Ahmad, Rebecca Smoller, Daniel Asemota, Apurva Sharma, Sabarivinoth Rangasamy, Dimitrios Varrias, Miguel Alvarez Villela