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A MESSAGE FROM THE SAINT LUKE'S CARE CMO

Farewell to 2021

When I wrote Farewell to 2020 a year ago, I was optimistic about the possibility of the COVID 19 pandemic winding down. Clearly that optimism was premature, to say the least. We are all tired of it, but we have persevered in doing our jobs and I know we will continue to do so. The Saint Luke's Care Team has worked remotely for all of 2021, and I am very proud of the past year's accomplishments.

The High Reliability Order Set Program is a major focus of our team. In 2021, we converted 60 more order sets to High Reliability Order Sets. That calculates to 163 out of our 515 order sets now being High Reliability Order Sets. Each order set change requires careful planning, a building phase within Epic and a conversion process from the old order set. Suffice it to say, it is a very arduous, complicated process that takes a great amount of time and effort.

The COVID 19 Task Force continued to meet throughout 2021 and updated the COVID 19 treatment guidelines frequently as medical evidence emerged. I outlined the members of this task force in the Saint Luke's Care Connect for the 2nd quarter of 2020. They have continued their great work and we all should be appreciative of their efforts.

Hospital Acquired Infections (HAI's) are decreasing throughout the health system. Through the combined efforts of SLHS Infection Prevention and Saint Luke's Care, our C. Diff testing was converted to a two-step process which led to a major improvement in correctly differentiating active C. Diff infection from those patients that were C. diff carriers. Changes to the Foley management order set as well as strengthening how urine cultures are ordered has helped to drive CAUTI rates lower. Kudos to all who worked on these efforts.

The SLHS implemented high sensitivity troponin testing on 24 Oct 2021. This was in part due to the launch of Beaker, Epic's Laboratory Information system. The effort to manage this transition met the definition of a rapid improvement program. Saint Luke's Care was made aware of this on 15 Sep 2021. We formed a clinical team of subject matter experts who developed an algorithm for clinical use and worked on medical staff education including a very well attended virtual Grand Rounds.

Saint Luke's Care, with the help of the SLHS Marketing Department has updated our website. Click here to check it out [Saint Luke's Care website](#). Our Evidenced-based Practice Teams (EPT's) have also had some leadership changes in 2021. Dr. Christine Boutwell will chair the Neurosciences EPT, Dr. Ben Kulow is going to co-chair the Surgery EPT with Dr. Megan McNally. Dr. Carl DuBose will chair the Behavioral Medicine EPT and Dr. Eric May will chair the Anesthesia EPT. The growth of Saint Luke's Care

membership has remained stable, we currently have 943 physician members and 19 APRN members.



Farewell to 2021 (continued)

Resiliency has become a very popular word in the medical literature during the pandemic. The practice of medicine has always required resiliency, but now more than ever. It is up to each one of us to practice positive habits in order to maintain resiliency. Avoid unnecessary criticism of coworkers or colleagues. Instead, try to express positive thoughts to everyone that you can. Maintain healthy habits and try to take time off if you can. Together we will all get through this.

William M Gilbirds II, MD

High Reliability Order Set Program (HROSP) Updates & New Clinical Content

HROSP informatics is our way of emphasizing the use of evidence-based medicine by means of optimizing standardized clinical content and implementing supporting workflows that make it easy to do the right thing. High Reliability order sets that have recently gone live include:

HROSP: Pneumonia Admission and Merge/Management

- Passive suggestion criteria
- Merge BPA for use with Adult Medical Initials Orders and ICU Initial Care Orders
- NEW order set, Epic #1360, for merge/management

HROSP: NEW Acute Pancreatitis Order Set, Epic #1342

- Admission Order workflow for treatment of acute pancreatitis
- Passive suggestion criteria
- Clinical reference banner with fluid algorithm, recent labs, IV fluid administration, and I/O

HROSP: Insulin Infusion Orders, Epic #1353

- Consolidated clinical content (5 order sets into 1) for ease of use
 - Diabetic Ketoacidosis, Epic #14
 - Hyperosmolar Nonketotic Hyperglycemic State, Epic #145
 - ICU Hyperglycemia, Epic #812
 - Hypertriglyceridemia Induced Pancreatitis (new content)
 - High Dose Insulin- Euglycemia (new content)

HROSP: Oxytocin Induction

- Complete order set re-design and alignment with ACOG guidelines
- Encourage physician/nurse collaboration and emphasis on physician documentation and order placement

High Reliability Order Set Program (HROSP) Updates & New Clinical Content (continued)

HROSP: Nuclear Cardiac Imaging

- Removed ability to order diagnostic imaging studies outside the order set

HROSP: COPD Admission

- Utilizes passive suggestion criteria in storyboard and admission med-rec navigator

HROSP: Mechanical Ventilation Orders

- Implemented a mechanical ventilation bundle for appropriate order sets
- Developed a BPA which fires if the patient is intubated and does not have these orders on the chart

HROSP: Hyperkalemia

- Re-education on importance of order set usage in the ED related to hypoglycemic events
- Suggestion criteria added in ED Quick List

HROSP: Vitamin K for Warfarin Reversal

- BPA developed to encourage utilization of order set for this clinical scenario

HROSP: Palliative Care Orders

- Order set optimization

HROSP: Neostigmine Infusion Orders

- Removed the ability to order neostigmine infusions outside the order set

HROSP: NICU Initial Care Orders

- Major content functionality optimization to provide more efficient, individualized patient care

HROSP: SLC IP PNEUMONIA MERGE ORDERS, Epic #1360

- New order set for patients diagnosed with pneumonia during their hospital stay

HROSP: New Order Set - Study C928-011, Epic #1452

- New research study for patients with alcoholic hepatitis

High Reliability Order Set Program (HROSP) Updates & New Clinical Content (continued)

MRI Screening Standing Orders, Epic #161908

- Added New MRI Screening Standing Orders for all locations except Crittenton.

Pneumococcal vaccination in immunocompromised patients (therapy plan), Epic #1387

- New therapy plan for immunocompromised patients that need a pneumonia vaccine that are seen in infusion centers

Migraine Management, Epic #1260

- New Order Set for management of migraines

Malignant Hyperthermia, Epic #1210

New order set for management of patient with malignant hyperthermia

EPT Updates

Saint Luke's Care (SLC) Evidence-based Practice Teams (EPTs) are continuously meeting to address the needs of providers and other clinicians. Creating and modifying order sets and other clinical documents are just a few of these activities.

For more information on EPT activities and SLC multidisciplinary projects, click [HERE](#) to view the most recent updates.

- Pediatrics EPT
- OB EPT
- Anesthesia EPT
- Radiology EPT
- Neurology EPT

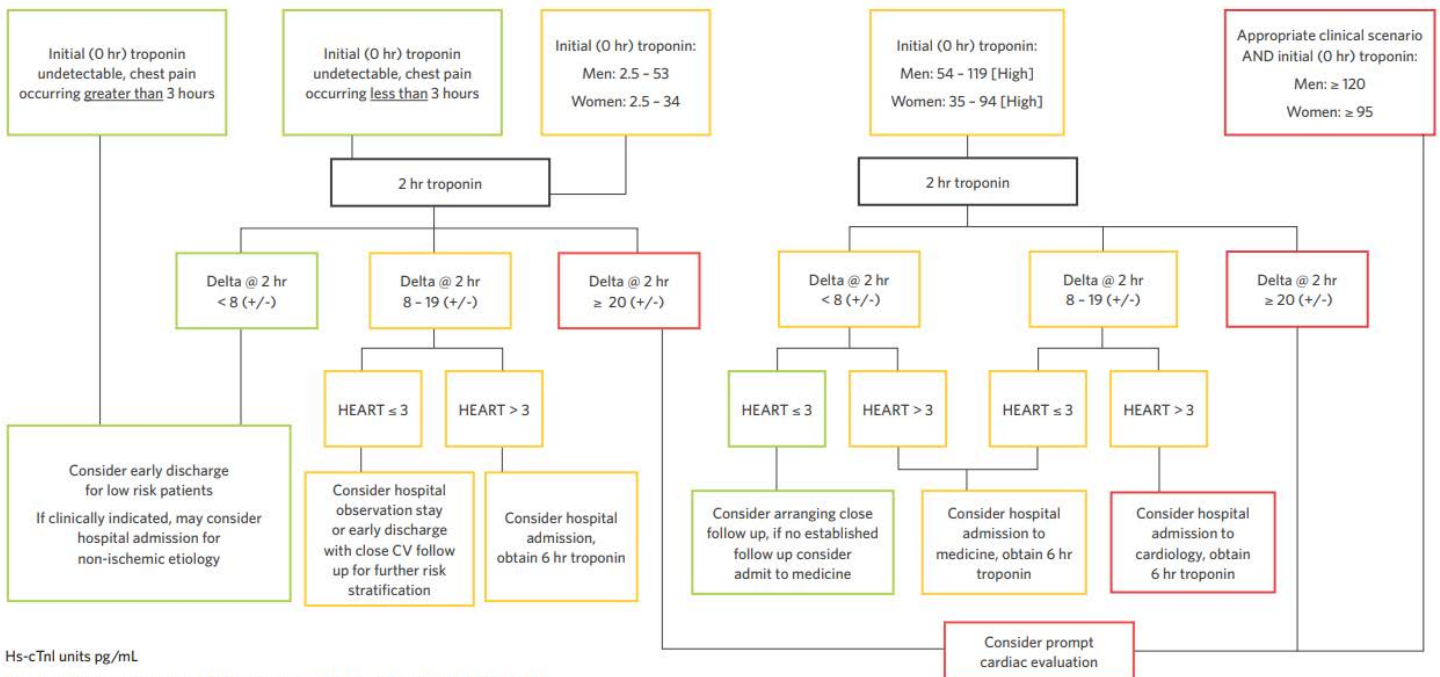
High Sensitivity Troponin

High-sensitivity cardiac troponin I (hs-cTnI) has been used clinically worldwide for over a decade and was approved by the FDA for use in the U.S. in 2017. High-sensitivity troponins allow for more rapid and accurate detection of myocardial infarction and for rapid triage of our cardiac patients. Saint Luke's Laboratory installed new instruments that perform 5th Gen HSTnT-I in October 2021.

A multidisciplinary Saint Luke's Care (SLC) task force, including physicians from emergency medicine, cardiovascular, hospital medicine, informatics, and clinical pathology, worked quickly and diligently on the implementation of hs-cTnI. We developed our approach using evidence-based literature and evidence from our lab vendor, as well as learning from peer organizations who have been through this process change.

In less than 4 weeks' time, the task force was able to develop a clinical algorithm (see below) to assist in the interpretation of results, guide patient disposition, and create clinical decision support tools for an efficient workflow in Epic. This algorithm captures all of the new process changes and serves as a useful education tool for multiple specialties and disciplines. Moving forward, we will continue to embed these clinical decision-support tools in Epic and will use rapid-cycle improvement processes and ongoing feedback to adjust our clinical processes and practices.

High Sensitivity Troponin Algorithm



Hs-cTnI units pg/mL

This workflow is separate from the evaluation and treatment of patients with STEMI.

If patient transfers in from a facility that uses conventional troponin, Troponin-I Hs, Panel (0 hr, 2 hr, 6 hr) should be ordered.



10/21/21

Saint Luke's Care Welcomes New Team Members!

Calah Courtney, MSN, RN-BC



Calah comes to Saint Luke's Care from The University of Kansas Health System. For the last 3 years, Calah has served as the Nursing Supervisor in Ambulatory Orthopedics and Sports Medicine where she also worked in process improvement with OR utilization and improving physician/staff workflow. Prior to this role, her experience was at the bedside in Perioperative Services for 4 years where she gained experience providing care for patients pre and post-surgery. For 4 summers, Calah had the opportunity to work as a Camp Nurse in Maine at the oldest continuously run boys summer camp in the United States, Camp O-AT-KA.

Calah completed her MSN in Nursing Administration from The University of Saint Mary and her BSN from The University of Kansas. Fun fact: While attending the University of Kansas, Calah enjoyed dressing as the mascot Baby Jay for academic events.

Jon Schwier, BS



Jon has been working with Epic's EMR for over 15 years helping organizations improve provider workflows and patient outcomes. Jon worked at Saint Luke's as a consultant for over 5 years helping with the initial Epic install, the implementation of new Epic modules and many specialty focused optimization projects. After a couple years working with other healthcare organizations Jon has joined Saint Luke's Care to focus on clinical decision support and clinical content optimization, both of which are passions of his. He is excited to be involved in the High Reliability Order Set Project as it will allow him to bring these passions to his day to day work. Jon lives in Madison, WI with his wife, two kids and dog. He enjoys traveling, photography, working out and playing guitar.

Erin Self, RN, BSN



Erin has been a bedside nurse for 10 years. Her last 3 years has been at Saint Luke's Hospital on the plaza as an ICU float pool nurse. Prior to that she worked at Barnes Jewish Hospital in St. Louis in the Trauma Surgical ICU for 5 years. Prior to that she worked at University of Missouri Columbia Hospital in their Surgical ICU. She has her Trauma Core Nurse Certification and loves the Trauma and surgery population.

She graduated from University of Missouri Columbia Sinclair School of Nursing in 2011 with her BSN.

Erin lives in Lenexa KS, she and her husband became new parents this summer, welcoming twin boys!

SHOUT OUTS

We'd like to give a shout out to **Dr. Jeff Sattler** for all his help in reviewing and creating clinical content for the High Reliability Order set Program. His willingness to make time to talk through ideas, create workflows, answer questions and get feedback from his colleagues is greatly appreciated. His contributions to the SLC team has been a huge factor in helping make the HROSP successful.

Special thank you to **Dr. Tibor Mohacsi** for his years of service as chair of the Anesthesia Evidenced Base Practice Team. With his outstanding leadership he helped us navigate many difficult clinical minefields such as moderate sedation and deep sedation practice and policies. We are excited to work alongside Dr. Eric May and know he will do a wonderful job!

Dr. Majdi Hamarshi has been the physician chair for our Critical Care Evidence Based Practice Team for over six years. Dr. Hamarshi is an essential component of this team's success and has been integral in advancing the best evidence based improvements for this group. Dr. Hamarshi is always attentive to detail, respectful, and kind with his comments and direction. Saint Luke's Care really appreciates all of Dr. Hamarshi's hard work and dedication to our mutual goals. We look forward to continue working with Dr. Hamarshi for many more years to come!

A special thank you to **Dr. Vidur Bhalla** and the **VTE improvement team**, with their hard work and support we are rolling out multiple improvements to our VTE prevention and prophylaxis workflows.

Shout out to **Dr. Devon Ramaeker** and **Dr. Kristen Wootton**! They were so instrumental in revising the Oxytocin order set! They went above and beyond to ensure every detail of the order set was reviewed and up to date with the latest evidence! Thank you both so much for your time and effort around the Oxytocin Order set.

A big thank you to **Dr. Erin Algeo** and **Dr. Donald Campbell** for their time and energy around Acute Pancreatitis Initial Management order set! Saint Luke's Care is so excited that this will be the first highly reliable order set built with supporting workflow to encourage use and make it easy to do the right thing! Looking forward to working with you both again in the future!

Huge kudos are in order for **Dr. Carl Dirks**! He was instrumental in the implementation of High Sensitivity Troponin and is a great supporter of Saint Luke's Care and the High Reliability Order Set Program. We are so appreciative of his dedication and the many insights he has to improve the delivery of care within the Saint Luke's Health System.