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 - Written questions are encouraged throughout the presentation
 - To submit a question, type it into the Chat Area and send it at any time
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 - o This session is being recorded, the chat will not be included in the recording
 - o Utilize the chat throughout the webinar. To chat everyone, make sure your chat reflects the picture below:







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- Create a Duke OneLink account. You only need to create an account once you may
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 your registration confirmation email.
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- Text VOFDAG to (919) 213-8033 after 1:00 pm ET today 24-hour window

In support of improving patient care, the Duke University Health System Department of Clinical Education and Professional Development is accredited by the American Nurses Credentialing Center (ANCC), the Accreditation Council for Pharmacy Education (ACPE), and the Accreditation Council for Continuing Medical Education (ACCME), to provide continuing education for the health care team.









Upcoming Team Training Events

Courses & Workshops

- In-person TeamSTEPPS Master Training
 - Houston Methodist October 31- November 1
 - Tulane December 4-5
 - UCLA December 11-12

Webinars

- November 8 webinar details coming soon!
- Bonus Webinar: <u>Strategic Onboarding: Maximize Employee Retention from Day One</u> November 15, sponsored by Relias





Upcoming Team Training Events Cont.

Custom TeamSTEPPS Advisory Services at Your Organization

TeamSTEPPS Master Training Course

Using a train-the-trainer model, we give you the foundational tools and concepts, and train your staff through this two-day training program.

You will gain a team of Master Trainers ready to teach others in your organization.

Comprehensive TeamSTEPPS Programs

We help you along the way. After delivery of the two-day Master Training course, we continue to work with your team for 3-6 months, building the internal capacity to hardwire TeamSTEPPS throughout your organization.

Learn More »

Our relationship with the TeamSTEPPS faculty and the on-site trainings were both phenomenal. They did a great job of meeting us where we were and customized a program that really helped us gain clarity about the problem we're trying to solve.

Melissa Riffe-Guyer
 Executive Director,
 Culture Cone Health





IMPROVING MATERNAL & NEONATAL SAFETY

USING EVIDENCE-BASED BEST PRACTICE, TEAMWORK & SIMULATION, AND QUALITY IMPROVEMENT



Dr. Stephanie Bruce, MD, MAS, FACOG



Sharon Patagoc, MSN, RNC-OB, C-ONOS



Dr. Rakhi Dimino, MD, MMM CPE, FACOG



Dr. Stacy Norton, MD, FACOG



Dr. Athis Arunachalam, MD, MBA





THE VISION FOR THE SECOND CENTURY

Houston Methodist will set a new standard for leading academic medical centers through unparalleled safety, quality, service and innovation.



Houston Methodist Willowbrook Hospital







358 Beds

Level III Maternal Designation

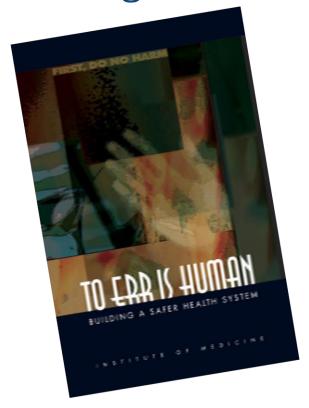
3,500+ Births

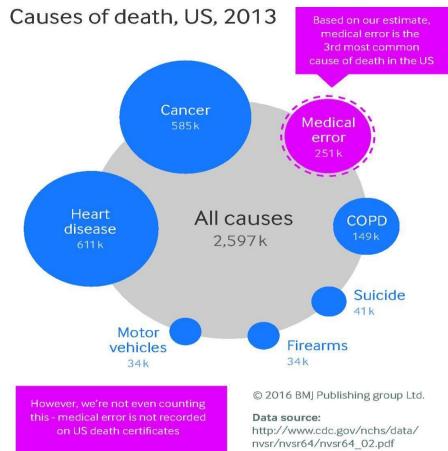
Level III NICU



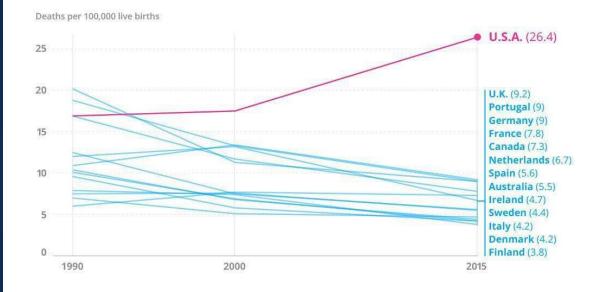
MEDICAL ERRORS

Third Leading Cause of Death in U.S.A.





MATERNAL MORTALITY 2015: U.S.A. vs. other Developed Nations



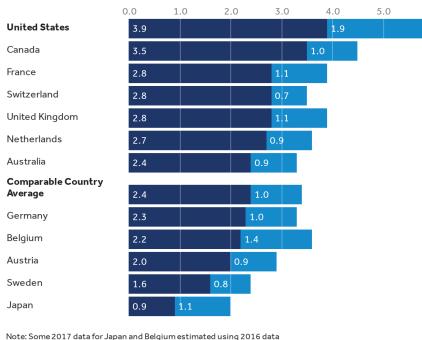


Data Source: "Global, regional, and national levels of maternal morality, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015" *The Lancet* (Propublica graphic)

NEONATAL MORTALITY 2017: U.S.A. vs. other **Developed Nations**

Neonatal and postneonatal mortality rates (deaths per 1,000 live births), by country, 2017





Source: KFF analysis of OECD data

Peterson-Kaiser **Health System Tracker**



IN THE MEDIA: Maternal & Neonatal Mortality

Forbes

U.S. Maternal And Infant
Mortality: More Signs Of Public
Health Neglect

Joshua Cohen Contributor ©



In 2020, the Covid-19 pandemic led to the largest decline in U.S. life expectancy since the Second World War. Yet, prior to the pandemic, the U.S. was already experiencing a decrease in life expectancy, unlike any of its peer nations with comparable Gross Domestic Product (GDP) per capita. Among many factors contributing to this long-term trend is infant and maternal mortality.

The U.S. is the only industrialized nation in the world where maternal mortality is rising. And, the U.S. has nearly the highest maternal mortality rate among high-income countries. Each year, approximately 700 American women die during pregnancy, childbirth or subsequent complications.

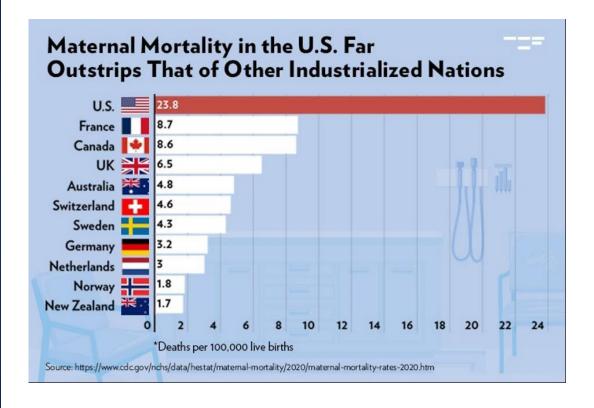


"Among many factors contributing to this long-term trend [decrease in life expectancy] is infant and maternal mortality"

MAJOR CONTRIBUTING FACTORS:

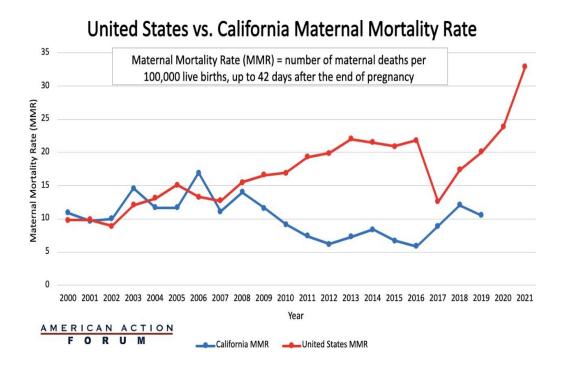
- Social Disparities
- Access to Care
- Chronic Diseases

MATERNAL MORTALITY 2020: U.S. vs. other Developed Nations





California Maternal Quality Care Collaborative



- Established in 2006 by Stanford University School of Medicine and the State of California
- Multi-stakeholder organization committed to ending preventable M&M and racial disparities
- Has seen a 65% decline in maternal mortality between 2006 and 2016





Combatting Maternal Morbidity and Mortality

Alliance for Innovation on Maternal Health (AIM)

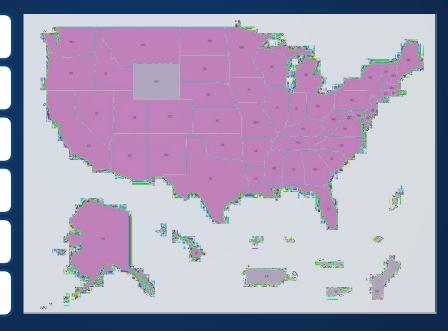
Commitment to Changing the Culture of Medicine

Optimizing Postpartum Care

Levels of Maternal and Neonatal Care

Extend PP Medicaid Coverage

Maternal Health Awareness Day





Texas and Other States Adopted ACOG's AIM & Selected Maternal Safety Bundles

TexasAIM Safe Care for Every Mother

A program of the Texas Department of State Health Services





Texas Department of State Health Services Obstetric Hemorrhage

Severe HTN in Pregnancy

Substance Use Disorder



HIGH RELIABILITY Helpful Habits and Highlights



DEFERENCE TO EXPERTISE:

Using Best Practice that is Evidence-based

HIGH PERFORMANCE PRACTICES:

Teamwork, Standard Communication, and Simulation

CONTINUOUS PROCESS IMPROVEMENT:

Using data and front-line staff to drive Quality Initiatives

Dr. Rakhi Dimino

- Maternal Medical Director, HMWB
- Medical Director of Operations & Hospitalist,
 OB Hospitalist Group
- President-Elect, Board of Directors,
 Society of OB/GYN Hospitalists
- Chairman of Reproductive and Perinatal Health, Texas Medical Association
- Faculty, TexasAIM
- Chair of Board of Directors,
 Pre-Eclampsia Foundation





Practice Variation



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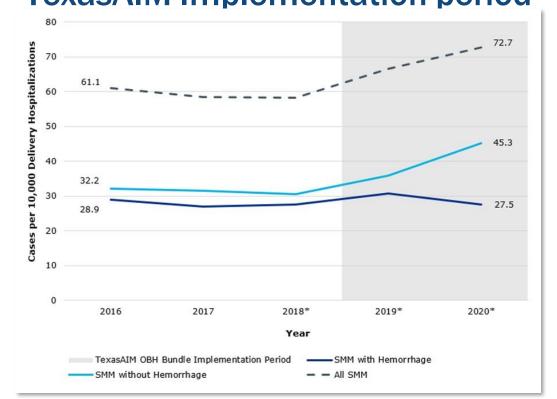
Ob Hospitalist Group

Reduction of Nulliparous, Term, Singleton, Vertex C-sections





SMM* Among Obstetric Hemorrhage Cases During TexasAIM Implementation period

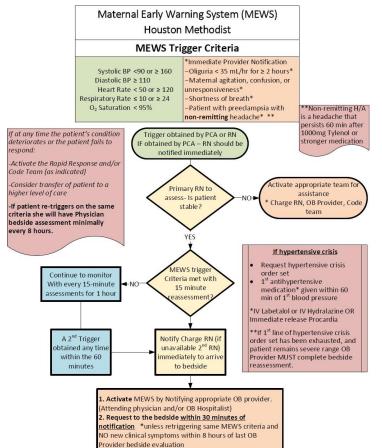


Texas SMM Among In-Hospital Deliveries with or without Obstetric Hemorrhage per 10,000 Delivery Hospitalizations, 2016-2020

*SMM - Severe Maternal Morbidity



PREPARED BY: MCHE, CHI Division, DSHS. DATA SOURCE: Hospital Inpatient Discharge Research Data File, 2016-2020. Birth Files, 2016-2020. CHS, DSHS. NOTES: *2018-2020 Birth Files are provisional. SMM was calculated using the Updated AIM SMM Code List, October 2021. The SMM National Workgroup recently advised calculating SMM using SMM indicators while excluding blood transfusion-only cases. Previously reported SMM rates may not be comparable. See Federally Available Data Resource Document. See also, saferbirth.org/aim-data/recourses/



Houston Methodist: Hypertensive Emergency in Pregnant & Postpartum Patients





Best Practice Committee

Subcommittee of Department



Who:

Chairman: MMD

Executive Sponsor: ACQO

Physician Members

- HMWB CQO
- · System Ob/Gyn Dept Chair
- HMWB Chief of Staff
- . HMWB Department Chair
- NICU Medical Director
- MFM
- Anesthesia Lead
- Physician Group Representatives-PO, NWWC, Kelsey, Independent, Midwife

Nurse Members

- ACNO/ Executive Sponsor Women's Services
- Women's Services Leader-Director/Manager
- MPM
- PPL
- RN4

Quality Department Members

- · HMWB Quality Rep
- System Quality Rep

Why:

To decrease Maternal Morbidity and Mortality by improving Patient Safety and Quality Outcomes in Maternal Care through Standardization of Care using evidence-based medicine.

What:

- · Decreased NTSV Rate
- Decreased PP Hemorrhage
- Improved HTN Management
- LOS

- · Decreased Infections
- Improved Diabetes Management
- Decreased Maternal Mortality (1st & 2nd trimesters and PP)

Dr. Stacy Norton

- Chief-of-Staff, HMWB
- Faculty, AHA for TeamSTEPPS
- Leader of TeamSTEPPS and Simulation, Houston Methodist
- Faculty, Texas A&M School of Medicine
- Practicing Gynecologist





Turning you team of Experts into an Expert Team!

- TeamSTEPPS
 - Evidence Based
 - Framework/ Common
 Language/ Teachable Learnable
 Skills
- Simulation
 - Allows Practice
 - Teamwork
 - High Risk Low Frequency Events



TeamSTEPPS

American Hospital Association



Communication

SBAR, Brief, Debrief

Knowledge

Situational Monitoring Shared Mental Model

Attitudes

Mutual Trust

Performance

Efficiency/Safety
Improved Outcomes



Simulation



Non-Medical
Concept Solidification / Reinforces Tools
Fun and Builds on Team Fundamentals





Low Fidelity Simulation

Cost-effective

On Your Unit (in situ)

Flexible





- Can be costly but worth the investment
- Designated time away from the unit
- Use to train your trainers







Dr. Athis Arunachalam

- Neonatal Medical Director, HMWB
- Faculty and Leadership Roles,
 Texas Children's Hospital
- Faculty, Baylor College of Medicine and Texas A&M School of Medicine
- Multiple teaching, patient care, and research awards





NICU QI projects

NICU Nurse Interrupted-Use Lean Principles to Drive Change

Value based Hierarchy

Golden Hour Intravenous Nutrition

NICU Book Reading Program: 'Readers and Growers' Golden Hour
Intravenous Nutrition: A
Neonatal Intensive Care
Unit (NICU) Quality
Improvement Project

Mother's Own Milk Enhancement (MOM-E) Project

Breastfeeding Pathway

The Effects of Music Therapy in the NICU

Delayed Bathing in Well baby Nursery





Friendly Environment





Data Driven Approach





Creating a culture of continuous improvement



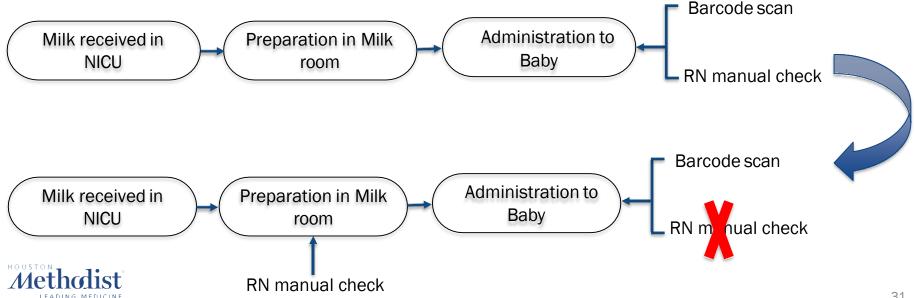


Motivate Staff recognition and rewards



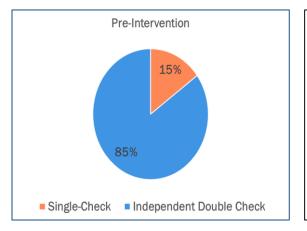
Nurse Initiated Quality Improvement

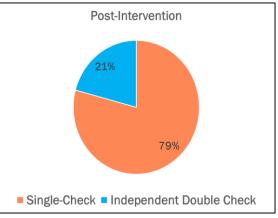
- Why do we have to doublecheck when we have barcode scanning process?
- Process mapping of every step of the milk administration:

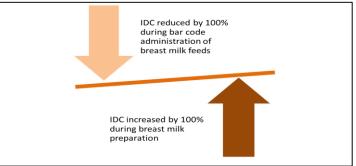


Standardization of Breast Milk Administration

Neonatal Medication and Breast milk administrations in a 30-day period at Houston Methodist Hospital System









HIGH RELIABILITY Helpful Habits and Highlights



DEFERENCE TO EXPERTISE:

Using Best Practice that is Evidence-based

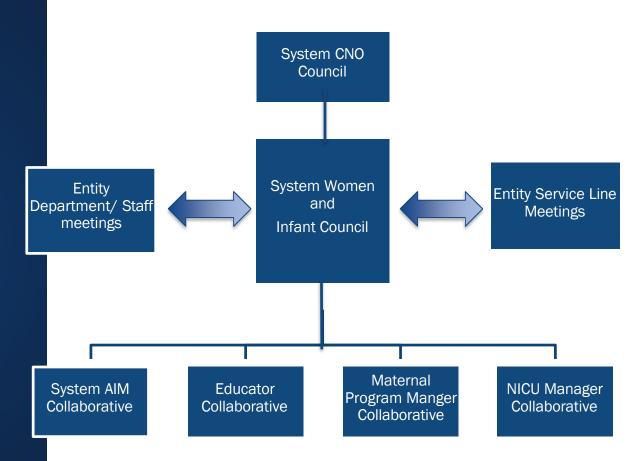
HIGH PERFORMANCE PRACTICES:

Teamwork, Standard Communication, and Simulation

CONTINUOUS PROCESS IMPROVEMENT:

Using data and front-line staff to drive Quality Initiatives

Houston Methodist Framework for System Women's and Infant's Council





Questions?

Feel free to also email us regarding any question, suggestion, or comments you may have.

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 <u>rdimino@obhg.org</u>
- Stacy Norton, MD, FACOG
 <u>slnorton@houstonmethodist.org</u>
- Athis Arunachalam, MD, MA
 arunacha@bcm.edu





Final Reminders

Evaluation

 Please complete the evaluation form that appears on your screen once the webinar ends

Continuing Education

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Questions? Stay in Touch!

www.aha.org/teamtraining

Email: teamtraining@aha.org • Phone: (312) 422-2609





