

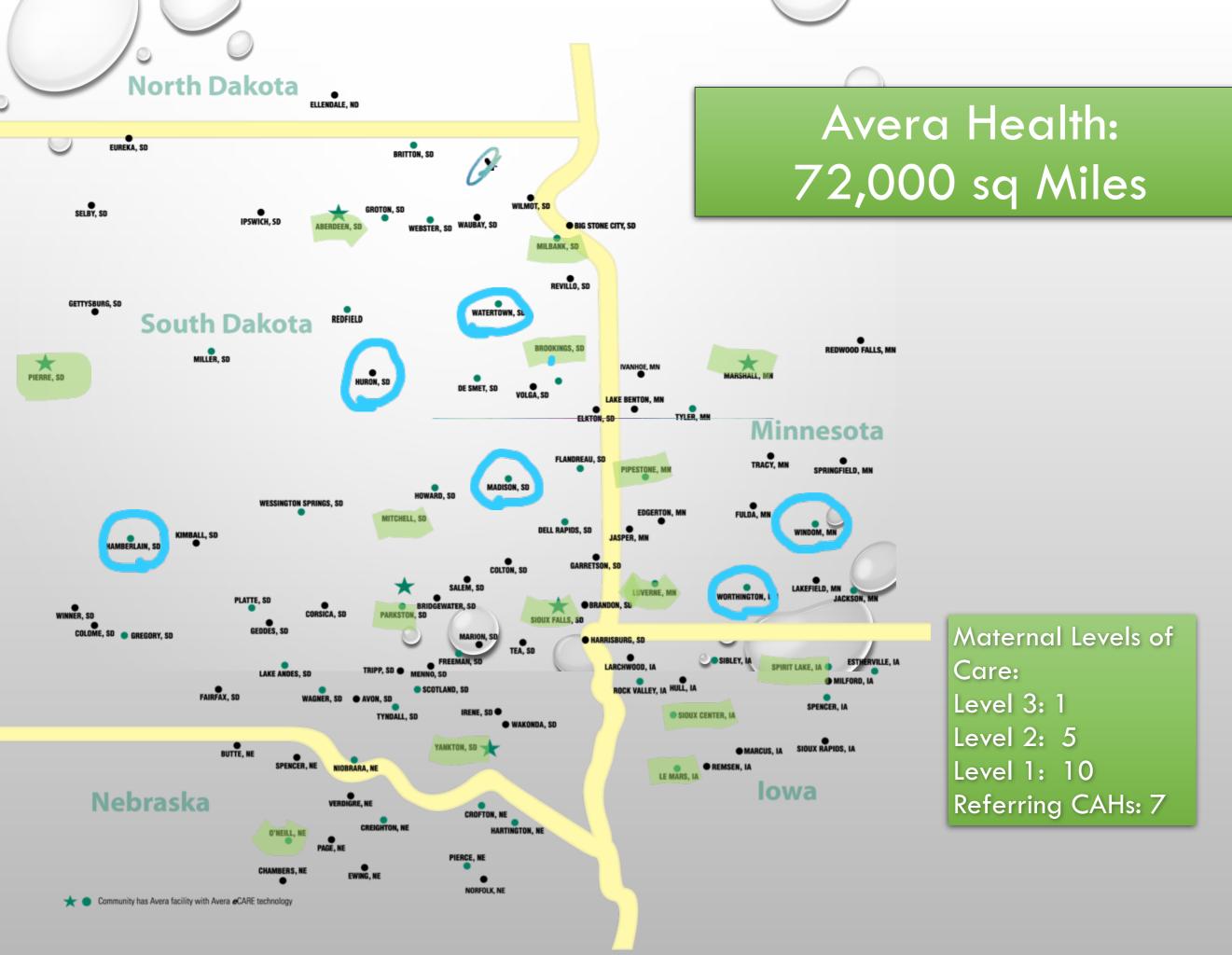


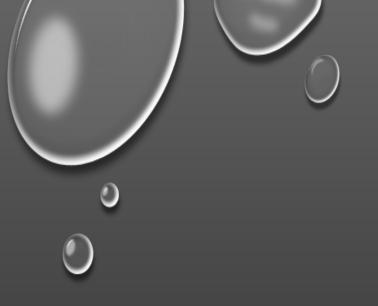
Avera Health

Avera's roots stretch back to the frontier of medicine of the Benedictine and Presentation Sisters; who began providing health care in Dakota Territory in 1897.

Avera is still sponsored by these same Sisters today, which helps lead to our mission:

"Avera is a health ministry rooted in the Gospel. Our mission is to make a positive impact in the lives and health of persons and communities by providing quality services guided by Christian Values."

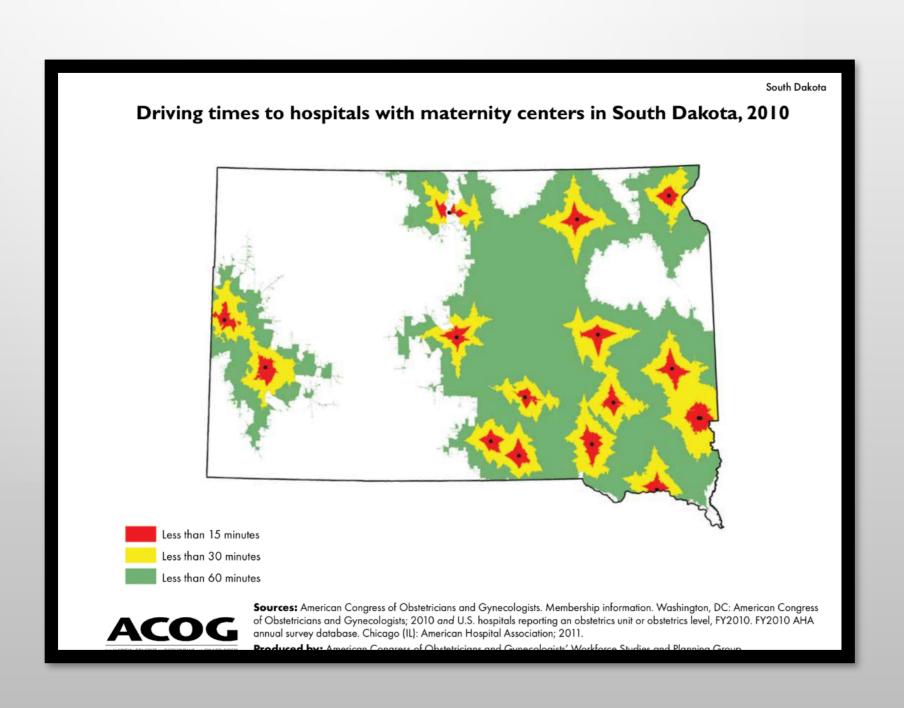




- 6,700 BIRTHS/YEAR
- MEDITECH EMR
- PERIWATCH FETAL MONITORING
- 80 DELIVERING PHYSICIANS
 - OB/GYN
 - MFM
 - FAMILY PRACTICE OBSTETRICS
 - CERTIFIED NURSE MIDWIVES
- OB/GYN SERVICE LINE X 5 YEARS
- MFM ASYNCHRONOUS TELEMEDICNE
- ECARE TRANSFER CENTER
- HIGHLY INTEGRATED HEALTH SYSTEM

AVERA HEALTH

What does it mean to be "Rural?"



 MOTHERSHIP- TERTIARY CARE HOSPITAL-AVERA MCKENNAN-DID TEAM TRAINING
 2008

AVERA HEALTH EXPERIENCE

• 5 REGIONAL SITES 400-600 DELIVERIES-ABERDEEN, PIERRE, YANKTON, MITCHELL-SOUTH DAKOTA, MARSHALL, MN

• 11 CRITICAL ACCESS HOSPITALS OR RURAL HOSPITALS 50-250 DELIVERIES



- CASE REVIEWS SMM, MAT DEATH OR INTRA-PARTUM DEATH >2500
 GRAMS >35 WEEKS OR FAILURE TO TRANSFER <34 WEEKS ACROSS SYSTEM
- NEED STANDARDIZATION OF RECOVERY FROM C/S SO BABIES ARE WITH MOMS
- NEED COOLER AVAILABLE WITH MTP IN HOSPITALS IN WHICH NOT CONSISTENT
- NEED UTILIZE CHAIN OF COMMAND
- ANESTHESIA GUIDELINES CONSISTENT BMI, AVAILABLE TO COME IN FOR DOUBLE SET UP
- ALL ORS NEED FETAL MONITORS
- VARIABILITY IN MAT TRANSFERS RE READINESS OF PT, RECORDS, MEDS ETC
- CONSIDER DEBRIEF OF ALL TRANSFERS
- DEFINE GESTATIONAL AGE FOR TRANSFER
- PIERRE- NO TELEMEDICINE
- MITCHELL KEYS FOR ELEVATOR
- YANKTON COOLER

Critical Access / Rural Hospitals

HARDER FOR STAFF TO TAKE TIME OFF

OFTEN HAVE TO HIRE LOCUMS

FAMILY MEDICINE

FOCUSED ON SHOULDER DYSTOCIA AND HEMORRHAGE

FACILITATED CREATION OF PP PROTOCOL AND HEMORRHAGE CART, AND PRACTICE WITH BARKI BALLOON

DISCUSS REMOTE SURGICAL TEAM AND HOW TO ASSEMBLE A TEAM



THE MATERNAL HEALTH COMPACT

RURAL HEALTH CARE

The Maternal Health Compact

Susan Mann, M.D., Kimberlee McKay, M.D., and Haywood Brown, M.D.

In a rural Minnesota town with fewer than 5000 residents, an 18-year-old woman with a term

service that provides real-time specialty expertise to lower-resource care settings. data pertaining to severe maternal complications and pregnancyrelated deaths owing to varied





1000 WORDS TO TELL A BIG STORY.



Perspective

What We Can Do about Maternal Mortality — And How to Do It Quickly

Susan Mann, M.D., Lisa M. Hollier, M.D., Kimberlee McKay, M.D., and Haywood Brown, M.D.

ost Americans take for granted that giving ing trend in pregnancy-related birth in a U.S. hospital will be a safe experience resulting in a healthy mother and baby. However, recent reports in the lay media —

and though multiple factors con-

Mothers: Maternal Mortality in have identified the most prevent- causes of obstetrical complicathe U.S."; a New York Times article able contributors. The Centers for on closures of rural maternal ser- Disease Control and Prevention ance for Innovation on Maternal vices; and a USA Today series, (CDC) defines a pregnancy-related Health (AIM) - a collaboration "Deadly Deliveries" - discuss death as "the death of a woman led by the American College of increasing maternal mortality in during pregnancy or within one Obstetricians and Gynecologists the United States and the signifi- year of the end of pregnancy from (ACOG) and involving 30 other cant concern it presents for child- a pregnancy complication, a chain organizations representing the bearing women and their families. of events initiated by pregnancy, spectrum of women's health care² Women in the United States or the aggravation of an unrelated are more likely to die from child- condition by the physiologic ef- best practices for improving safebirth- or pregnancy-related causes fects of pregnancy." Three types ty in maternity care, to help clinithan women in any other high- of complications the CDC identi- cians, the obstetrical team, and income country, and black women fies as the most common poten-facilities consistently manage the die at a rate three to four times tially preventable are postpartum care of high-risk pregnant women, that of white women. Increasing hemorrhage, severe hypertension, including those with the three maternal mortality is a tragedy, and venous thromboembolism.1 most common preventable com-

deaths? We recommend four actions that can be adopted by every hospital providing obstetrical care, regardless of its size.

First, hospitals can expand an NPR special series called "Lost death, national and state reviews their focus on the preventable tions and related death. The Alli-- created several "bundles" of So how can the health care plications identified by the CDC. tribute to the risk of maternal community reverse the devastat- We recommend implementation

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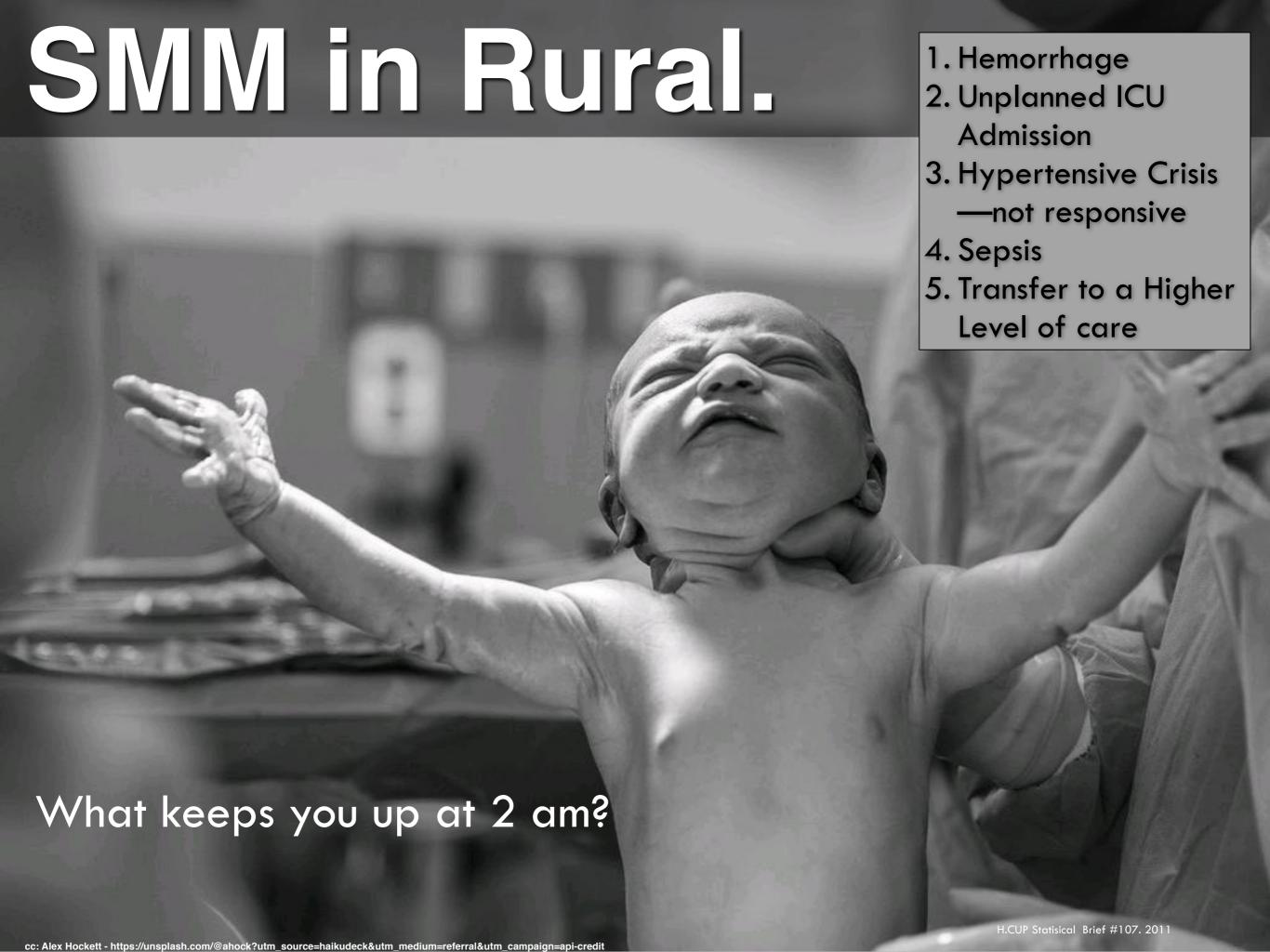


Not all Facilities are Joint Commission Accredited—and PC Measures are not a lever. (Lessons from PC 01 Implementation).



DATA IN RURAL: THE National Perinatal Information Centers **FACTS:** 1. Data collection requires people and money —which rural facilities do not have. 2. Transfers are difficult to track. Documentation consistency is imperative. Coding consistency is imperative.

CAN WE USE THE SAME MEASURES?



Implementing AIM Safety Bundles: Obstetric Hemorrhage.

Readiness:

- 1. Carts are easy—but sometimes you forget where they are.
- 2. Blood bank—What is MTP without platelets?
- 3. Meds are important—but sometimes they are down the hall and around the corner.
- 4. Staffing—2 nurses in house, and one may be staffing the ED.





Find the Levers.

Avera EMR System Governance—all order sets and documentation templates are managed within Service Lines

- 1. Standard intra-partum sets include auto check of hemorrhage medications.
- 2. Standard Delivery Summary to capture correct documentation.
- 3. Standard Delayed PPH floor Note

Standardized Carts/Medication work flow.

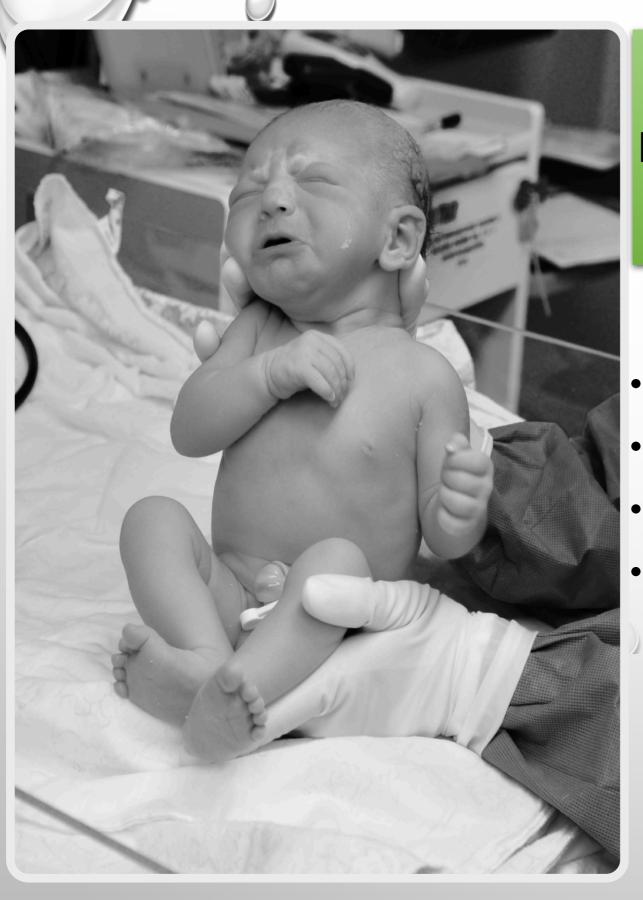
- 1. What is the process for medication verification in your facility?
 - 1. eCare Pharmacy oversight allows for medications to be released quickly when they fall outside standard medications. (TXA)
- 2. Refrigerate near or in the delivery room.
- 3. Bakri Baloon:
 - 1. Supply Chain for Avera Health negotiated a price and a pathway was created for ordering the device.

And then....there is Blood Bank.

•Things to know:

- Platelets are precious.
- FFP is distributed by a supplier that determines need of the facility.
- FFP takes 45 minutes to thaw in a water bath—which is rarely used in small facilities.
- MTPs in literature always includes platelets—but in our experience, they are rarely necessary.
- Facilities keep 8-10 units, only a few of which are O neg, so transfusing 4 units in an MTP is mostly impossible.
- Level 1 and 2 Facilities need to consider Type Specific MTP
- Type and Screen on EVERY patient shortens the process in tertiary care facilities, but is imperative if Type Specific MTP is implemented.





RURAL BLOOD BANK INVENTORY

2-4 U O NEG

2-4 U O POS

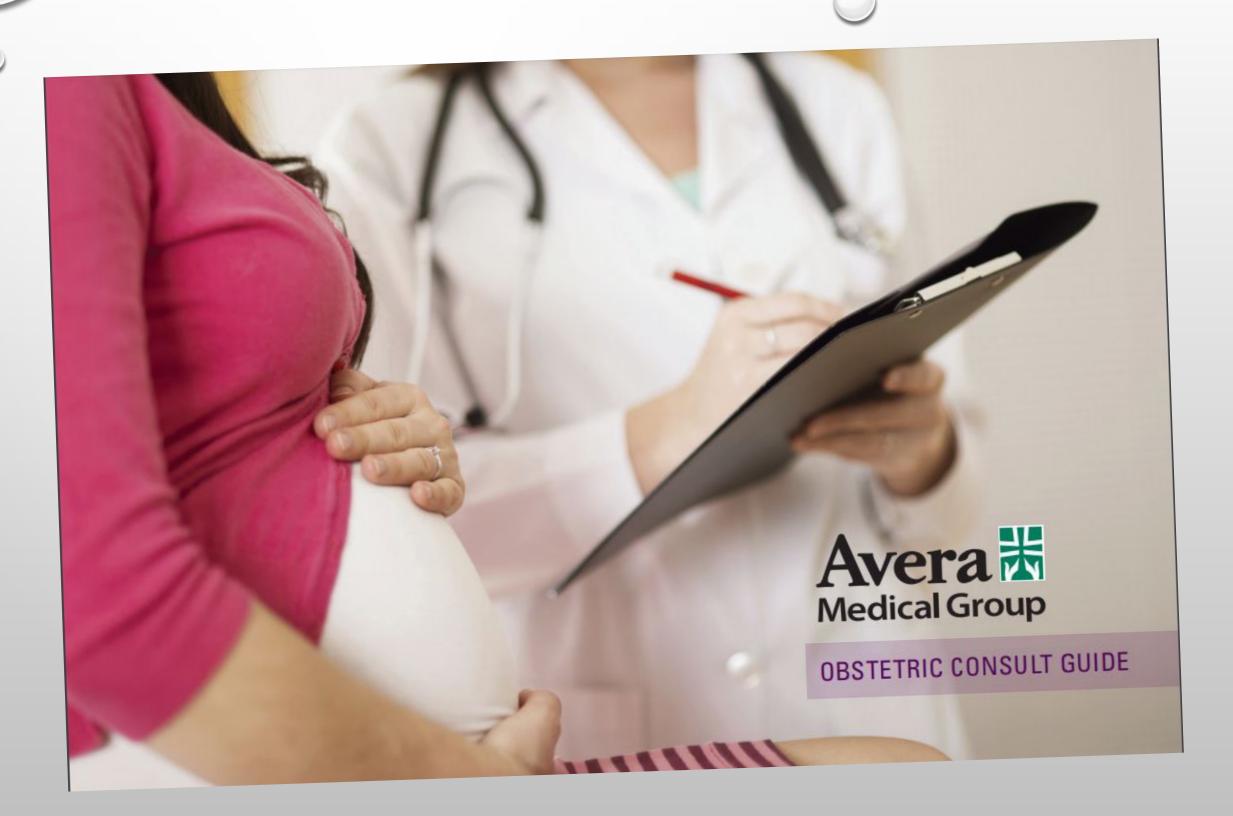
2-4 U COMBINATION A/B POS

4 U FFP

AVERA CONSULT GUIDE

System initiative intended to guide patients to the right consultant. (Strengthened co-management relationships)

- * Examples:
 - 1. VBAC (FP or CNMW with Ob Consultation)
 - 2. Morbid obesity—(level 2 or higher)
 - 3. Type 2 DM (Ob with MFM consult).
 - 4. Maternal Cardiac Conditions (MFM)



AVERA eCare Naternity INNOVATING A NEW CARE STANDARD

Avera Health and Avera eCare

