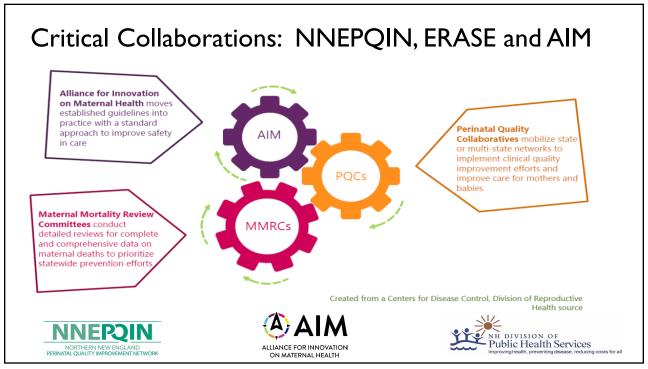


Agenda

- I. Why this matters
- II. Data: Disaggregation & Standards
- III. How does your EHR align with the standards?
- IV. Comparing EHR and birth certificate records
- V. How can we get this right?
- VI. Improvements can be made!





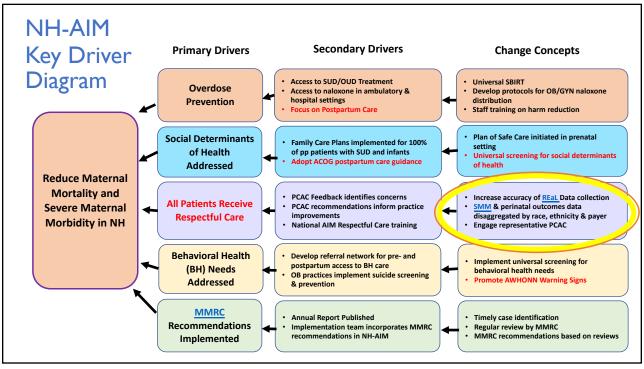
Why This Matters

Maternal health disparities are real

CMS encourages us to collect demographic data

AIM asks us to report disaggregated outcomes

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Percent Low Birth Weight
Resident Singletons 2020 / N.H. and U.S.

6.68%

Low Birth Weight

5.37%

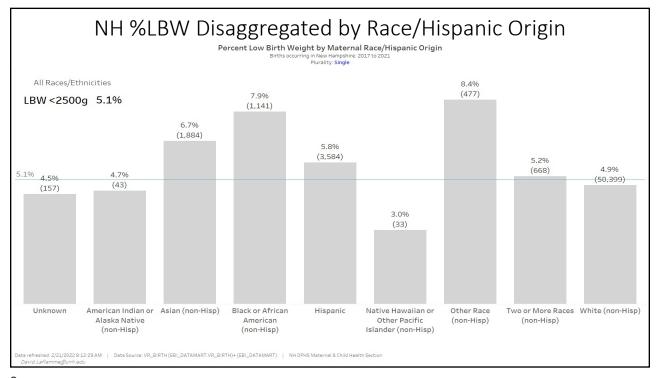
5.62%

Moderately Low Birth Weight

1.06%

Very Low Birth Weight

U.S.





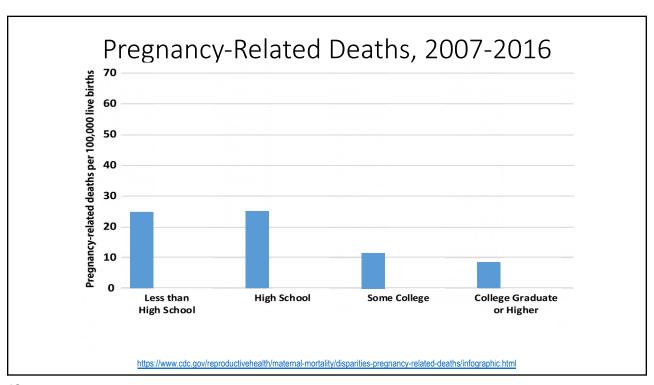
Capacity to disaggregate data to identify disparities depends on our *collection* of those demographic/SES/SDOH identifiers!

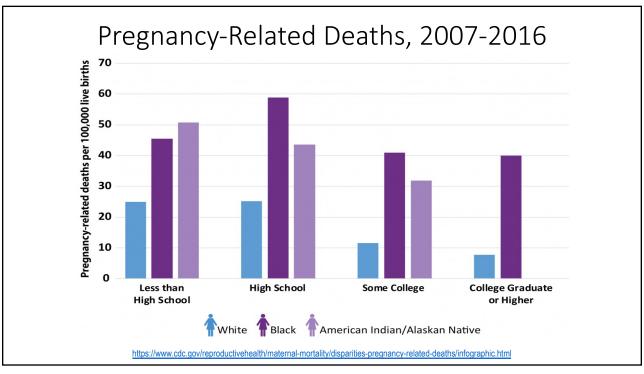
...by age
...by geography
...by insurance status
...by sexual orientation
...by gender identity
...by race/ethnicity
...by language
...by veteran status

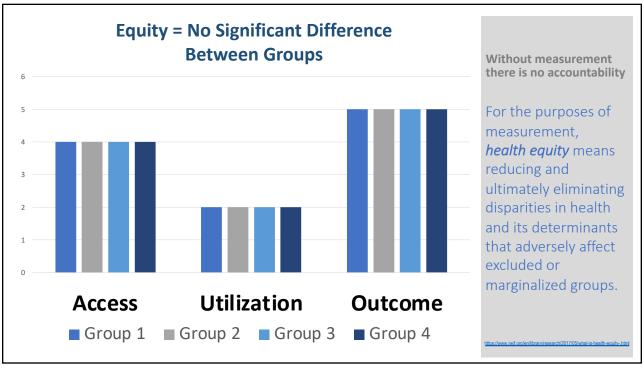
...by disability status
...by migrant status
...by access to housing
...by income
...by employment status
...by education level
...by incarceration history
...by distance to service

And those identifiers need to be collected correctly and consistently!

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Data Standards

U.S. Office of Management and Budget (OMB) Standards for the Classification of Federal Data on Race and Ethnicity, issued in 1997

OMB 1997 (Minimum Categories) Select one or more Are you Hispanic, Latino/a, or Spanish Origin (One or more categories may be selected) Not Hispanic or Latino Hispanic or Latino Race White Black or African American American Indian or Alaska Native Asian Native Hawaiian or Other Pacific Islander More than one race

- For census ("denominator"), household surveys, administrative forms and records, medical and other research, and other data collections.
- A minimum set of categories for data on race and ethnicity
- Self-identification is the preferred means
- Do not tell an individual who he or she is, or specify how an individual should classify himself or herself

The categories represent a social-political construct designed for collecting data on the race and ethnicity of broad population groups in this country, and are not anthropologically or scientifically based.

https://obamawhitehouse.archives.gov/omb/fedreg_1997standards

 $\underline{https://www.govinfo.gov/content/pkg/FR-1997-10-30/pdf/97-28653.pdf}$

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	OMB 1997 (Minimum Categories) Select one or more Are you Hispanic, Latino/a, or Spanish Origin (One or more categories may be selected) Not Hispanic or Latino	2011 HHS Data Collection Standards Select one or more Are you Hispanic, Latino/a, or Spanish Origin (One or more categories may be selected) No, not of Hispanic, Latino/a, or Spanish origin		
U.S. Office of Management and Budget	Hispanic or Latino	Yes, Mexican, Mexican American, Chicano/a Yes, Puerto Rican Yes, Cuban Yes, Another Hispanic, Latino/a or Spanish origin	U.S. Department of Health and Human Services, October	
	Race	What is your race? (One or more categories may be selected)	30, 2011, issued as	
	White	White	section 4302 of the Affordable Care Act Data Collection	
	Black or African American	Black or African American		
	American Indian or Alaska Native	American Indian or Alaska Native		
	Asian	Asian Indian Chinese Filipino Japanese Korean Vietnamese Other Asian	Standards for Race, Ethnicity, Sex, Primary Language, and Disability Status	
	Native Hawaiian or Other Pacific Islander	Native Hawaiian Guamanian or Chamorro Samoan Other Pacific Islander		
	More than one race	More than one race		
ht	the://asne.hhs.gov/reports/hhs-implementation-quidance-data	a-collection-standards-race-ethnicity-sex-primary-language-dia	sability-0	

III. How does your EHR align with the standards?

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 Which set of standards does your hospital EHR 	OMB 1997 (Minimum Categories) Select one or more Are you Hispanic, Latino/a, or Spanish Origin (One or more categories may be selected) Not Hispanic or Latino Hispanic or Latino	2011 HHS Data Collection Standards Select one or more Are you Hispanic, Latino/a, or Spanish Origin (One or more categories may be selected) No, not of Hispanic, Latino/a, or Spanish origin Yes, Mexican, Mexican American, Chicano/a Yes, Puerto Rican Yes, Cuban Yes, Another Hispanic, Latino/a or Spanish origin	• Can one select all that apply?	
use?	Race White Black or African American	What is your race? (One or more categories may be selected) White Black or African American	• Is there an	
 Does your EHR have the right categories? 	American Indian or Alaska Native Asian Native Hawaiian or Other Pacific Islander	American Indian or Alaska Native Asian Indian Chinese Filipino Japanese Korean Vietnamese Other Asian Native Hawaiian	"other (specify)" or additional categories?	
	Native Hawaiian or Other Pacific Islander More than one race	Guamanian or Chamorro Samoan Other Pacific Islander More than one race		

How Does Your Process Work? Do staff explain Are patients able Are staff why the data is to self-identity? comfortable...? being collected? Standard asking the language/statem questions? ent? • Data is responding to confidential patient's Data is used for inquiries/ improving services for all responses?

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NH Birth Certificate	Hospital A	Hospital B
Select one or more	Select only one race and one ethnicity	Select one or more
Mother of Hispanic Origin? (Check the box that best describes		
whether the mother is Spanish/Hispanic/Latina or check the "No" box if the mother is not Spanish/Hispanic/Latina)	Ethnicity	Ethnicity
No, not Spanish/Hispanic/Latina	Non-Hispanic or Latino	Not Hispanic nor Latino
res, Mexican, Mexican American, Chicana res, Puerto Rican	Hispanic or Latino	Hispanic or Latino
/es, Cuban		
es, other Spanish/Hispanic/Latina (Specify):		
Jnknown	Unknown	Unknown or Unavailable
	Refused to Answer	Declines to List
Mother's Race (Check one or more races to indicate what the mother considers herself to be)	Race	Race
White	White	White
Black or African American	Black/African American	Black or African American
American Indian or Alaska Native (Name of the enrolled or principal cribe):	Indian/Alaskan Native	American Indian/Alaska Native
Asian Indian	Asian	Asian
Chinese		
Filipino		
apanese		
Korean		
Vietnamese		
Other Asian (Specify):		
Native Hawaiian	Hawaiian/Pacific Islander	Native Hawaiian/Other Pacific Islander
Guamanian or Chamorro		
Samoan		
Other Pacific Islander (Specify):		
Other (Specify):	Other	
Jnknown	Unknown	Unknown/Unavailable
	Refused/Declined to Provide	Declines to List
More than one race	Not possible since not select one or more	More than one race

Once you compare your EHR format with the HHS 2011/Birth Certificate format...

- Let's do the linkage in every birth hospital and see what we find
- The BC appears to be higher quality race and ethnicity data
 - Possibly due to best practice of self-identification
 - Still potential for inconsistency between and within birth hospitals
 - · Possible literacy challenges
- Birth Certificate reflects "better" HHS standards

Example finding from one hospital

The birth certificate identified nearly 50% more racial diversity[†] compared to EHR alone

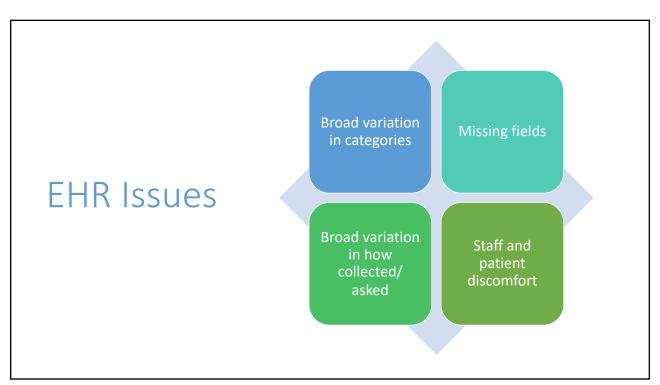
The EHR captured only about threequarters of mothers of Hispanic origin compared to the birth certificate

46%

77%

†Other than single white race

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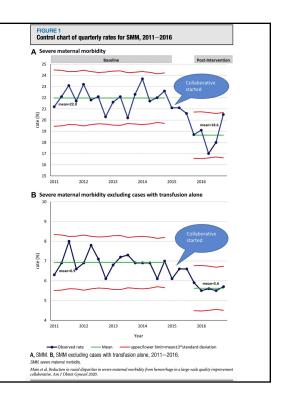




VI. Improvements can be made!

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Original Research Reduction in racial disparities in severe maternal Check for updates morbidity from hemorrhage in a large-scale quality improvement collaborative Elliott K. Main, MD; Shen-Chih Chang, MS, PhD; Ravi Dhurjati, MS, PhD; Valerie Cape, BA; Jochen Profit, MD, MPH; Jeffrey B. Gould, MD, MPH AJOG at a Glance Why was the study conducted? It was not known whether a large-scale quality improvement collaborative could reduce racial disparity in severe maternal complications following obstetric hemorrhage. **Key Findings** In this cross-sectional study that included 73,476 women with obstetric hemorrhage from 99 hospitals who participated in a hemorrhage quality improvement collaborative, the rate of severe maternal morbidity was reduced for all races. The black-white differences were no longer significant following case mix adjustment. What does this add to what is known? Maternal quality-improvement activities that focus on improving access to highly effective treatments have the potential to reduce racial disparities for caresensitive acute hospital-focused morbidities such as hemorrhage.



Improvements can be made!

- Stratify your data and look at outcomes to uncover hidden variation and identify disparities
- National guidelines exist
- Vital records provide a useful comparison for demographic data contained in EHRs, and can be used to track improvement over time

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Questions? THANK YOU! Daisy Goodman, CNM, DNP, MPH, CARN-AP daisy,i.goodman@hitchcock.org David Laflamme, PhD, MPH david.laflamme@unh.edu Trinidad Tellez, MD drttellez@gmail.com (with 2 T's)