

PROVIDE 2.0

Promoting Primary Vaginal Deliveries



"The Final Push!"







CMQCC

Cesarean: Maternal Risks

Acute

Common:

- Longer hospital stay
- Increased pain and fatigue
- Postpartum hemorrhage (transfusions ~2%)
- Slower return to normal activity and productivity
- Delayed or difficult breastfeeding

1/100 to 1/1000

- Anesthesia complications
- Wound infection
- Deep vein thrombosis

Long Term & Subsequent Births

1/100 to 1/1000

- Abnormal placentation (previas and accretas)
- Uterine rupture
- Surgical adhesions
- Bladder surgical injury
- Bowel surgical injury
- Bowel obstruction

And, we perform over 80,000 Cesareans every year in Florida!

Transforming Maternity Care

PROVIDE Goal

The PROVIDE Initiative goal is to improve maternal and newborn outcomes by <u>applying evidence-based interventions to promote</u> <u>primary vaginal deliveries</u> at Florida delivery hospitals and ultimately <u>reduce NTSV cesareans</u>.

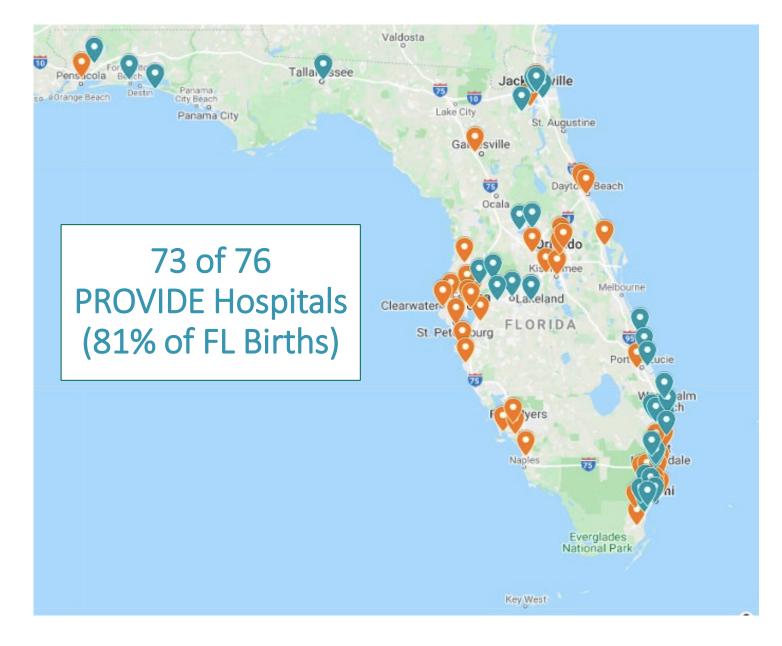
NTSV = Nulliparous Term Singleton Vertex



PROVIDE 2.0 Kickoff

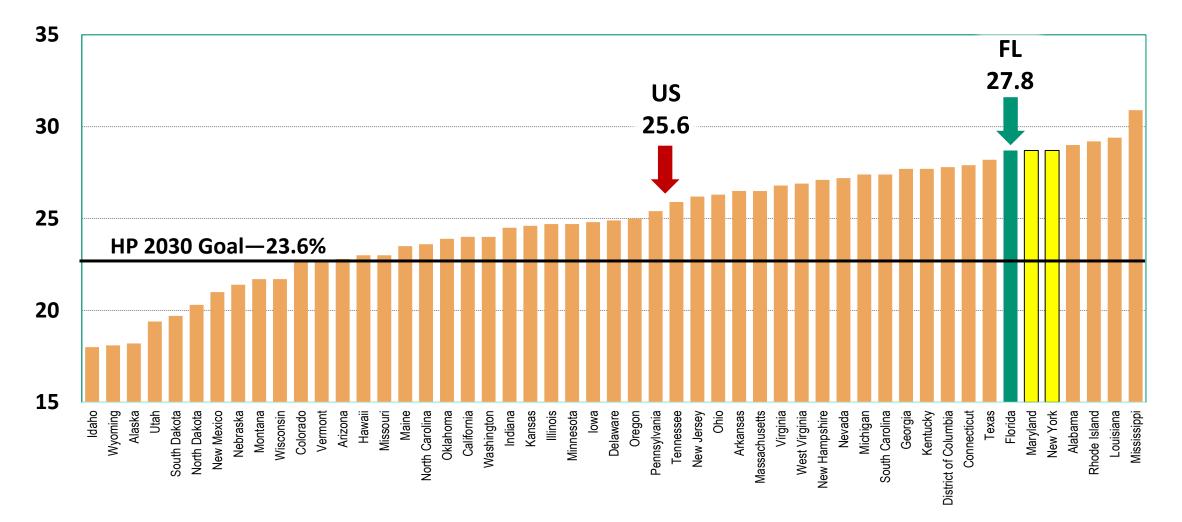






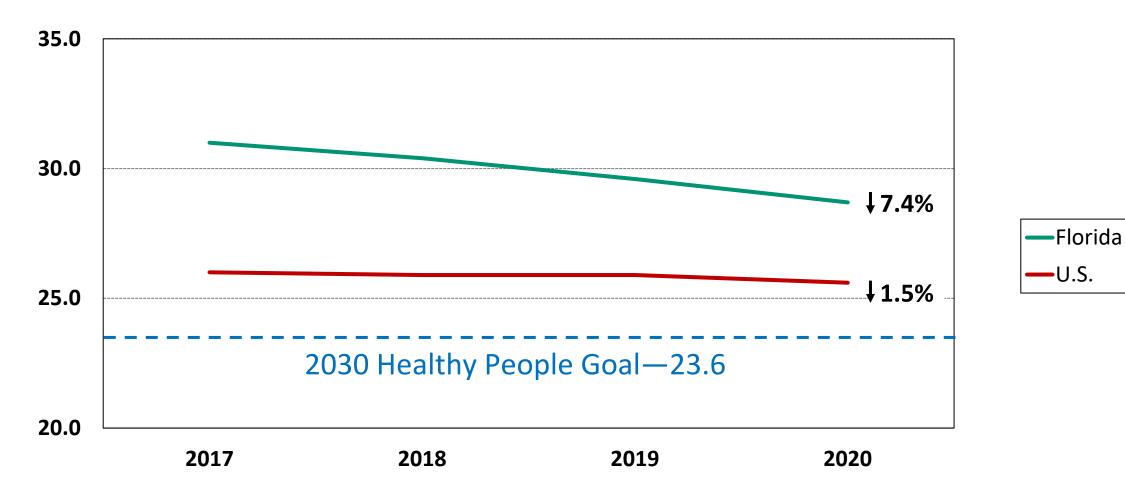


NTSV Cesarean Rates, U.S. States, 2020

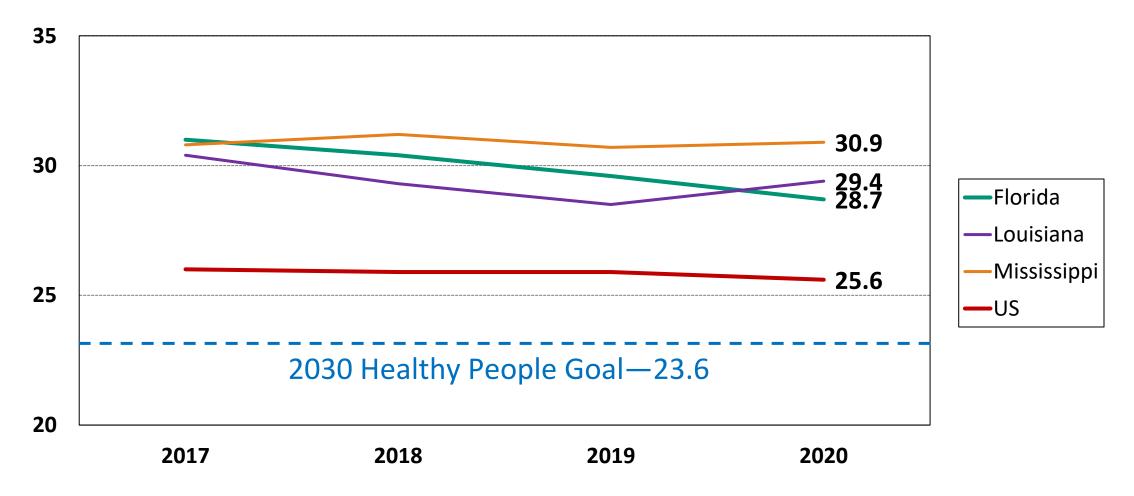


Source: NCHS (2021) Provisional Birth Data 2020



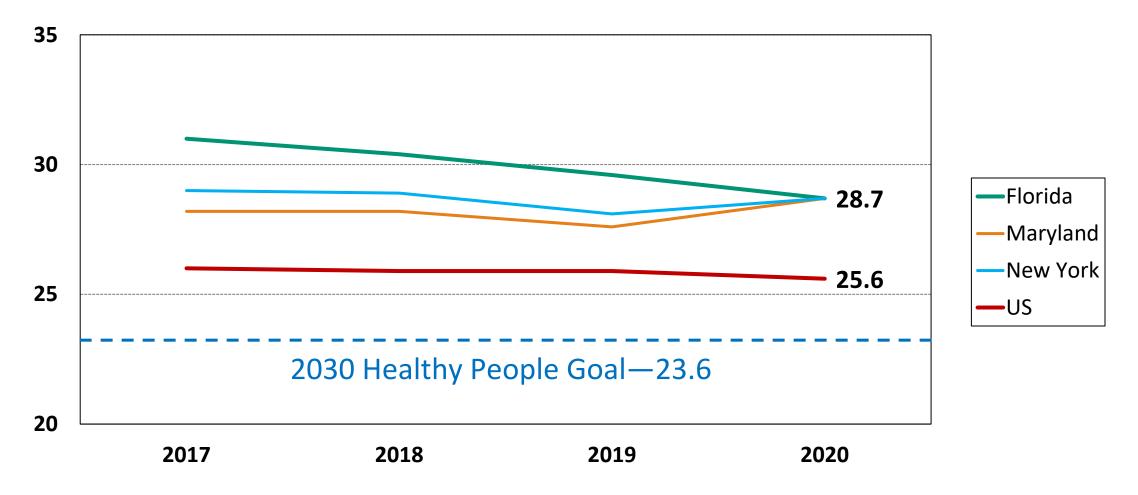




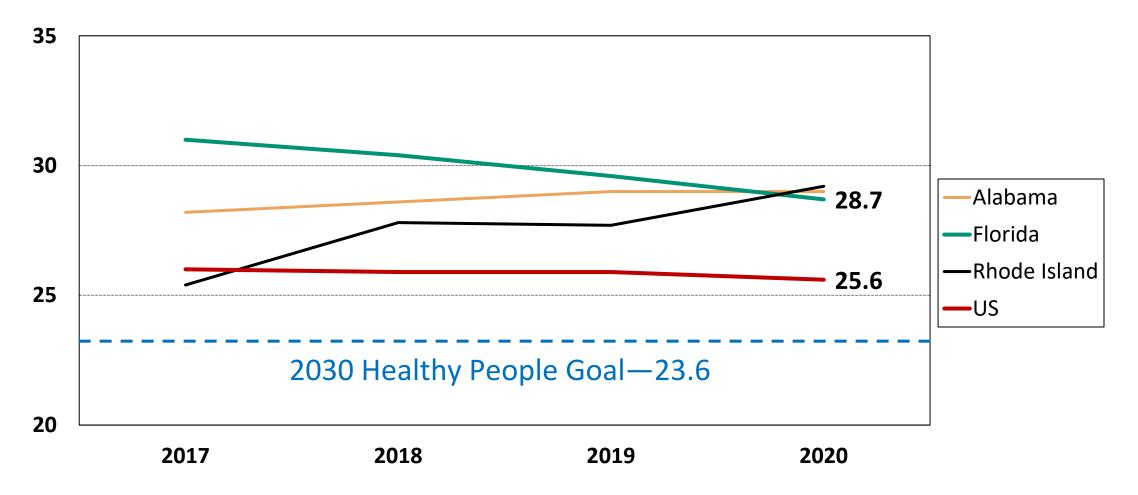


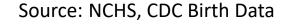


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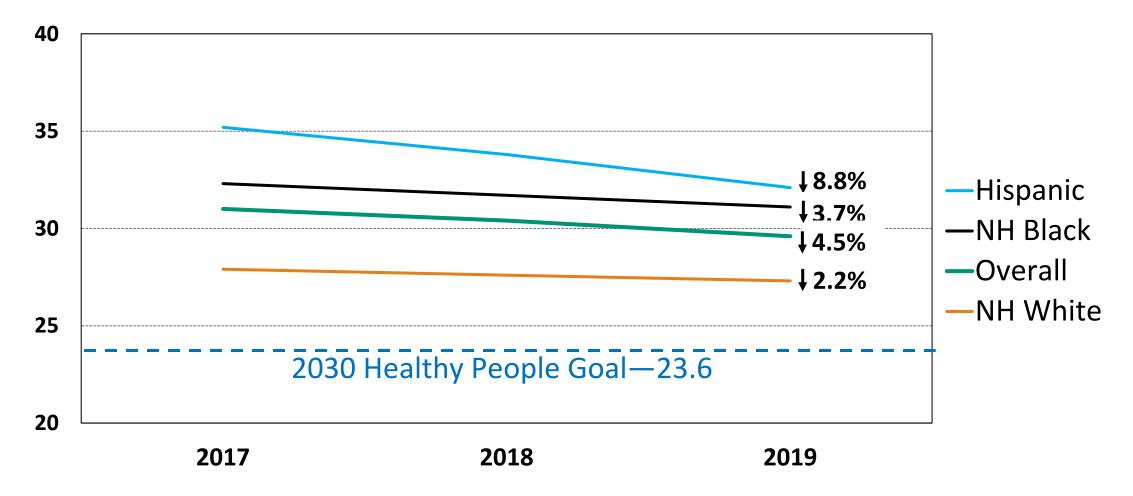
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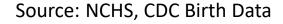






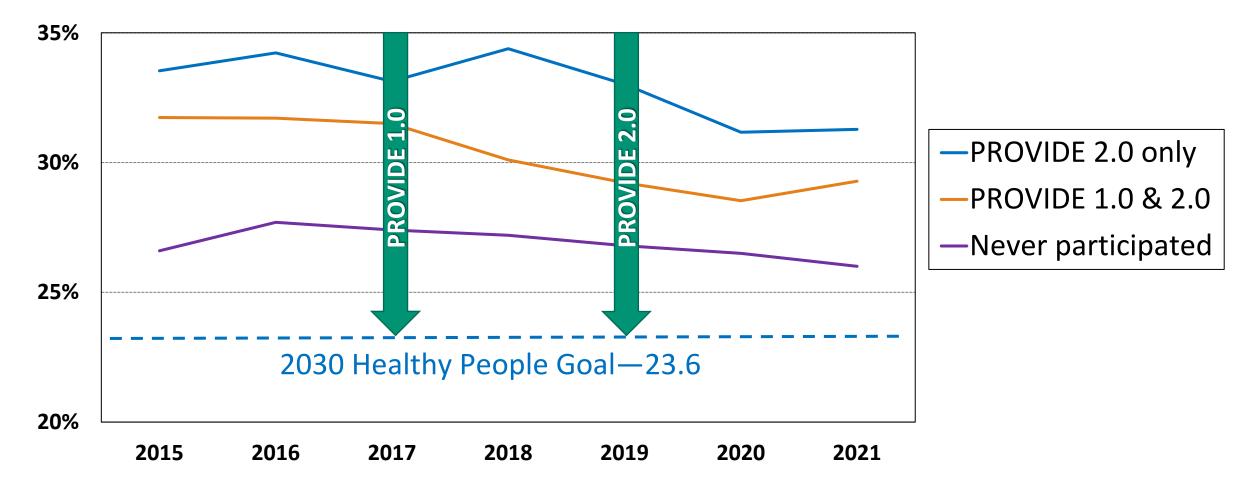
Florida NTSV Cesarean Rates by Race/Ethnicity







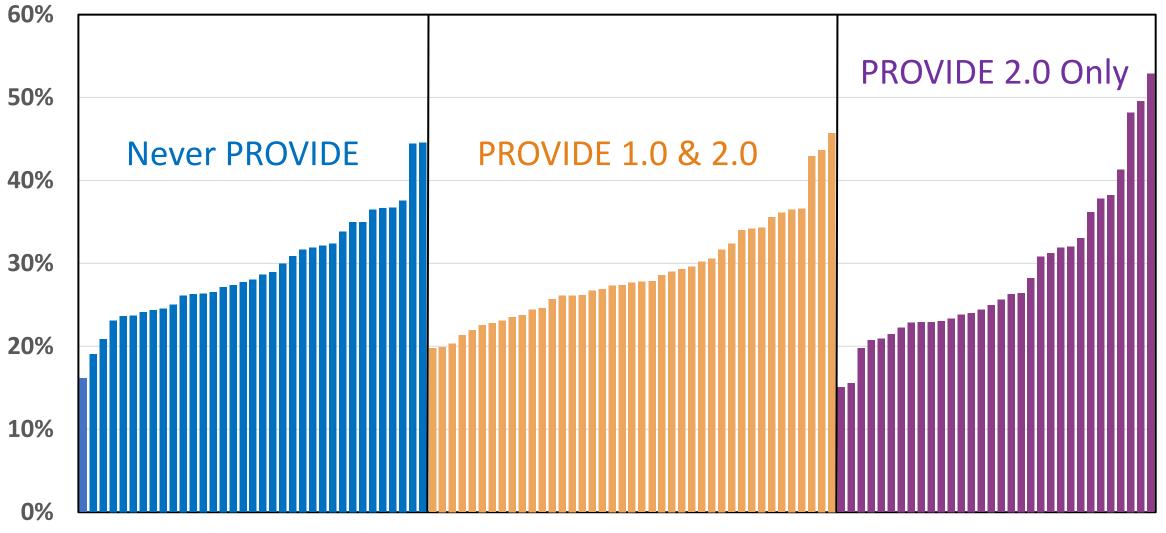
NTSV Cesarean Rates by PROVIDE Hospitals



Source: FPQC PROVIDE (Birth Certificates)

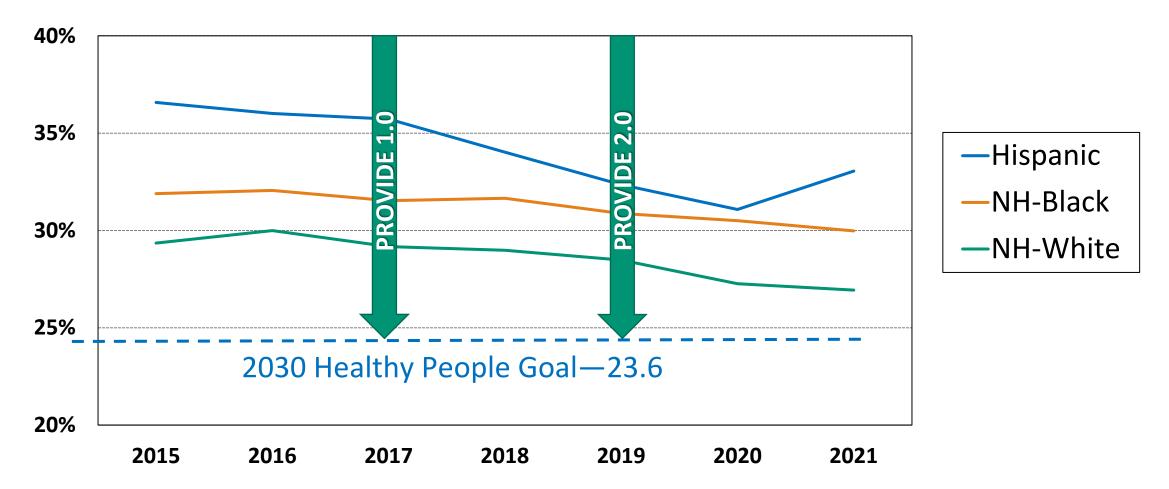


NTSV Cesarean Rates by PROVIDE Hospitals, Florida 2020





NTSV Cesarean Rates for PROVIDE Hospitals by Race/Ethnicity



Source: FPQC PROVIDE (Birth Certificates)



But this only uses birth certificate data?

Birth Certificate Data

- Timely within 2 weeks
- Fairly accurate

What about Joint **Commission and** Society of Maternal **Fetal Medicine Low Risk Cesarean** measures and their exclusions?



Why Cesarean Comparative Measures?

FPQC measure

• NTSV as defined in the Birth Certificate

Joint Commission measure

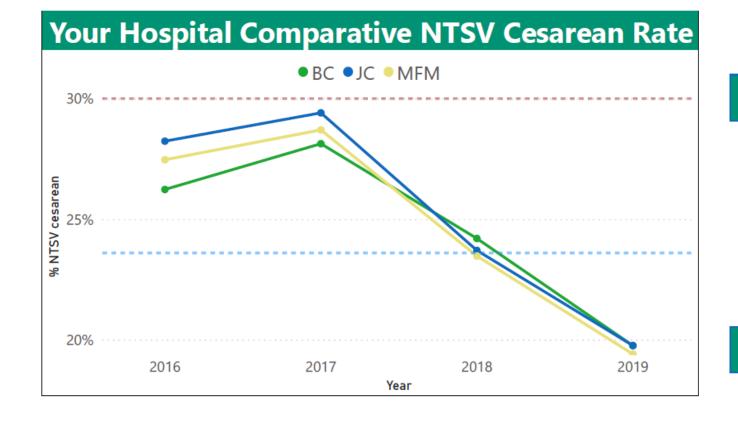
- Age- 8<x>=65, LOS>120 days
- <u>JC exclusions</u> –multiple gestations and other presentations

SMFM measure

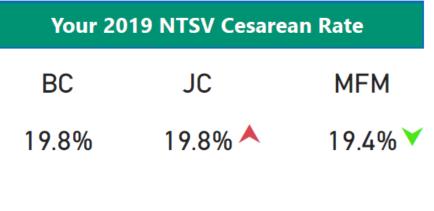
- MFM Exclusions:
- Multiple gestations and other presentations
- Maternal factors; preterm birth; fetal factors; stillborn; uterine /placental factors; conduct of labor

Compare the quality of data used (BC) to other sources

Compare accuracy of NTSV cesarean indicator between the FPQC measure (using BC only) to the adjusted measures



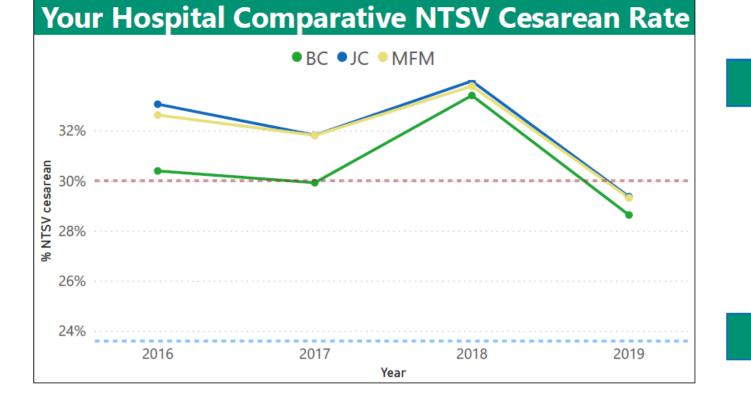
	2016	2017	2018	2019
NTSV cs rate - BC	26.2%	28.1%	24.2%	19.8%
NTSV cs rate - JC	28.2%	29.4%	23.7%	19.8%
NTSV cs rate - MFM	27.5%	28.7%	23.5%	19.4%



Your 2019 NTSV Cesarean Rate Rank







		2016	2017	2018	2019
NTSV cs rate - B	3C	30.4%	29.9%	33.4%	28.6%
NTSV cs rate - J	С	33.1%	31.8%	34.0%	29.4%
NTSV cs rate - N	MFM	32.6%	31.8%	33.8%	29.3%

Your 2019 NTSV Cesarean Rate							
BC	JC	MFM					
28.6%	29.4% 📥	29.3% 📥					

Your 2019 NTSV Cesarean Rate Rank								
BC	JC	MFM						
56	69 🔺	71 🔺						





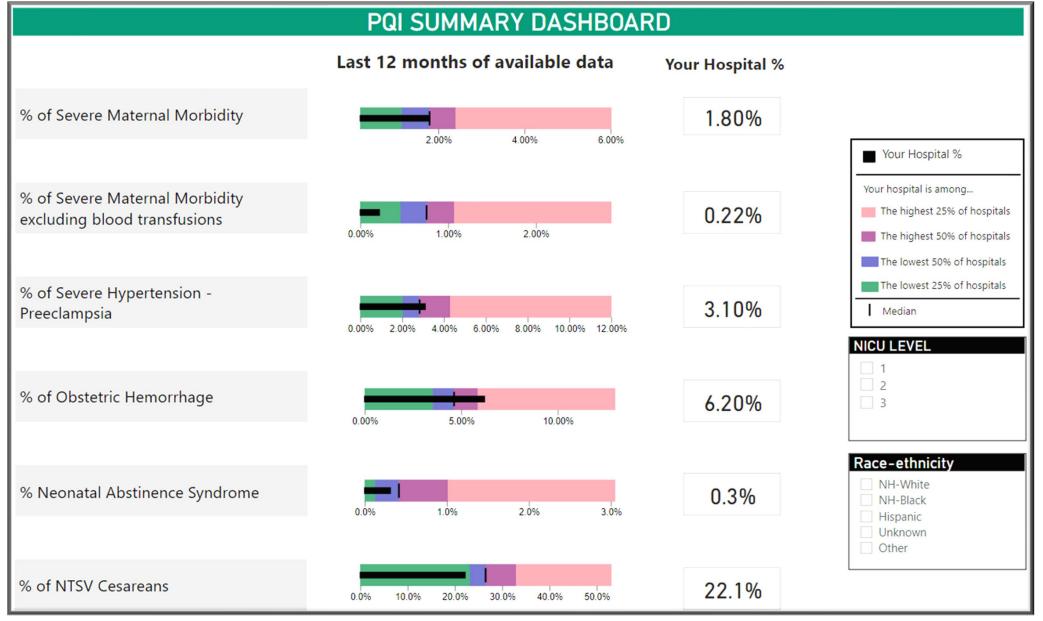
Hospital Perinatal QI Indicators



FPQC

No charge to participate
No data submission

Receive free every six months





PROVIDE 2.0-Where are we now?





"The Final Push!"



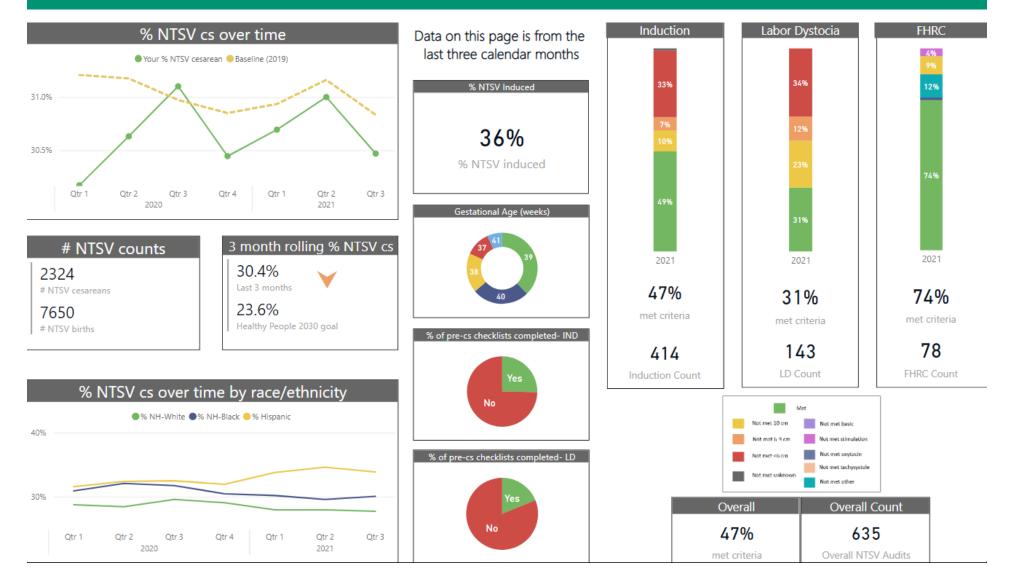




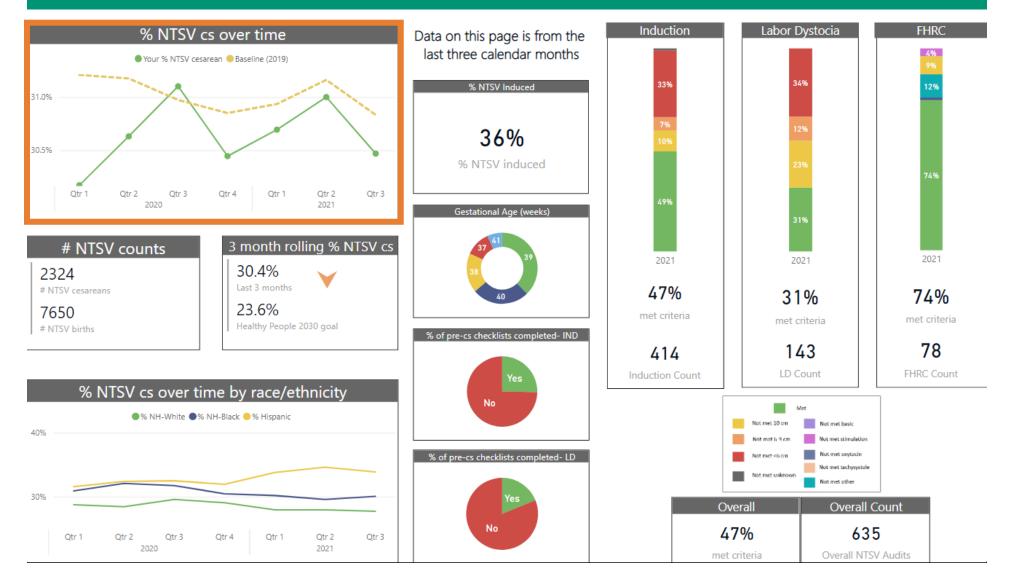
Number of hospitals reporting for PROVIDE

Baseline				Re-commitment					
	Q3 2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	
Total Hospitals Reporting	74	74	74	71	68	68	67	51	
Induction	59	57	56	53	54	53	51	38	
Labor Dystocia	41	39	32	32	31	28	33	20	
FHRC	18	17	17	22	20	20	16	8	
	FL COVID-19 Case Spikes								

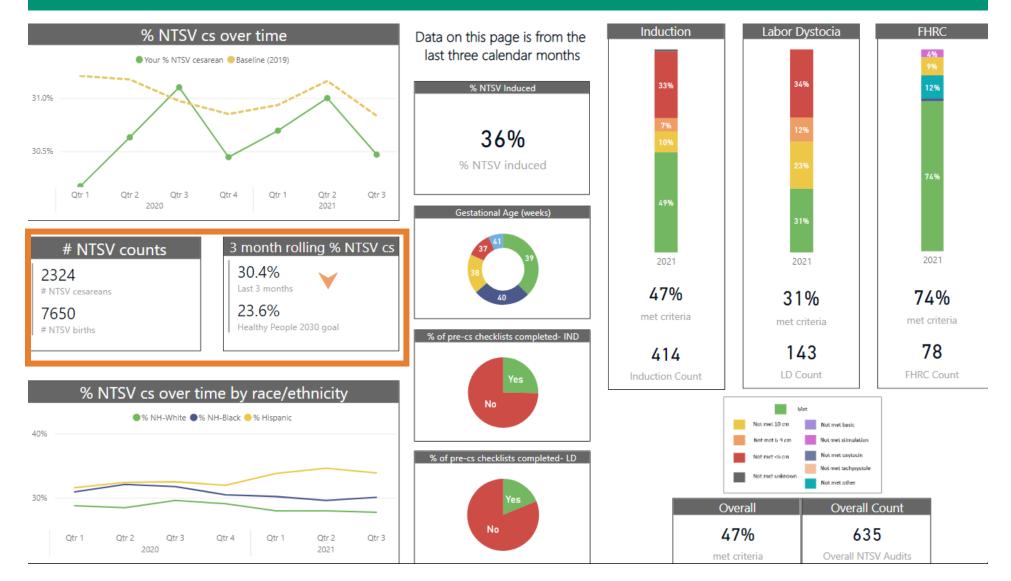




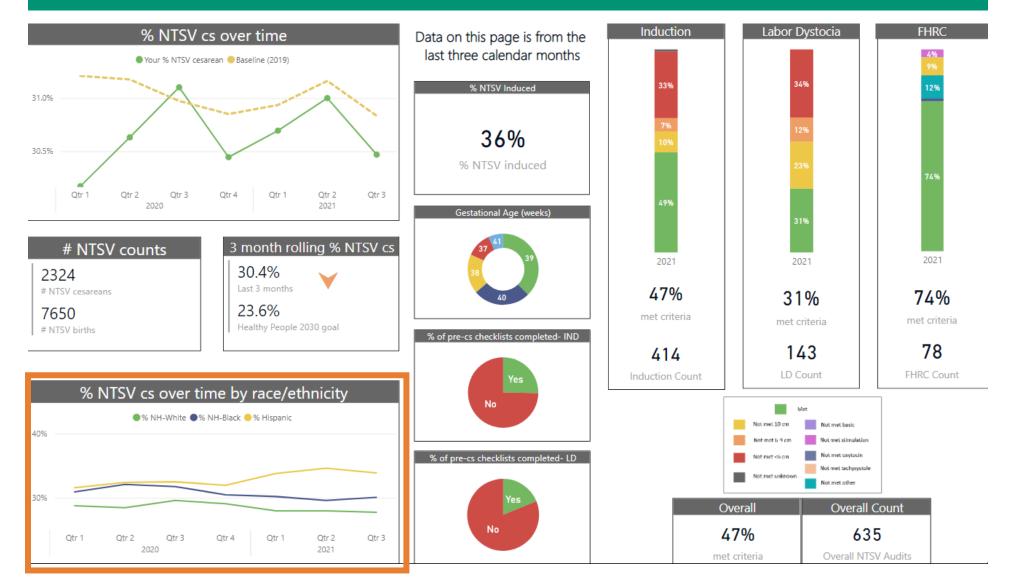




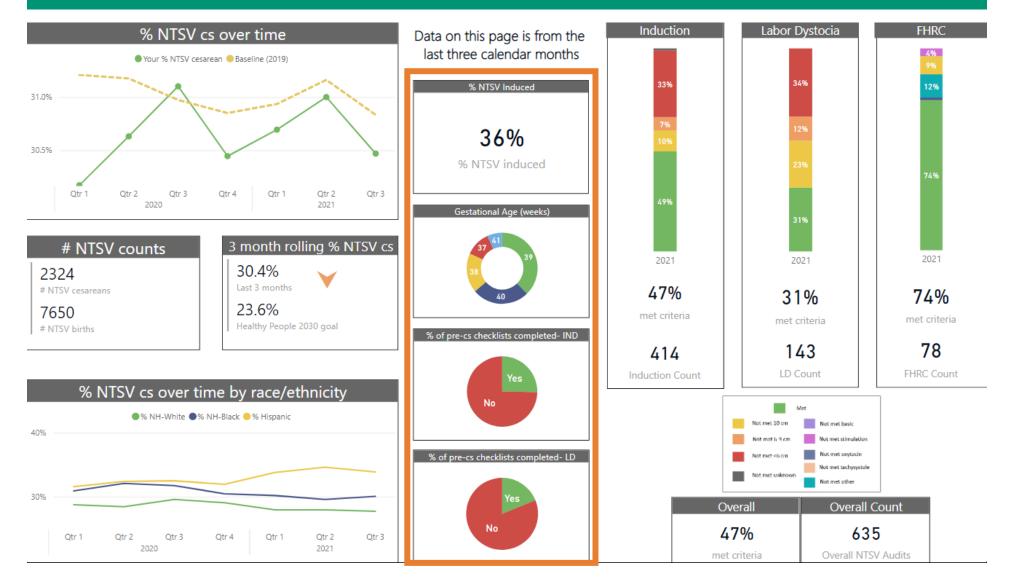




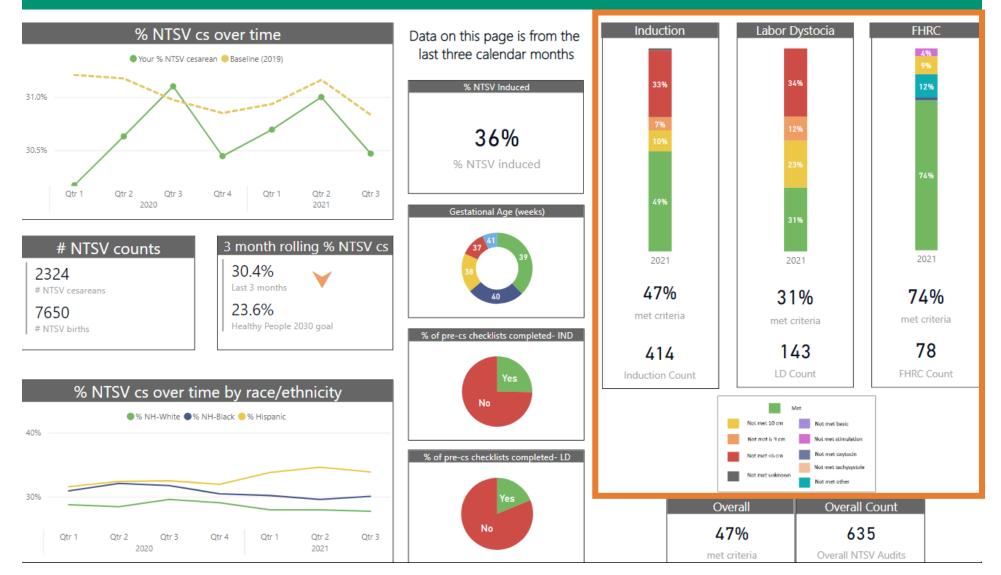










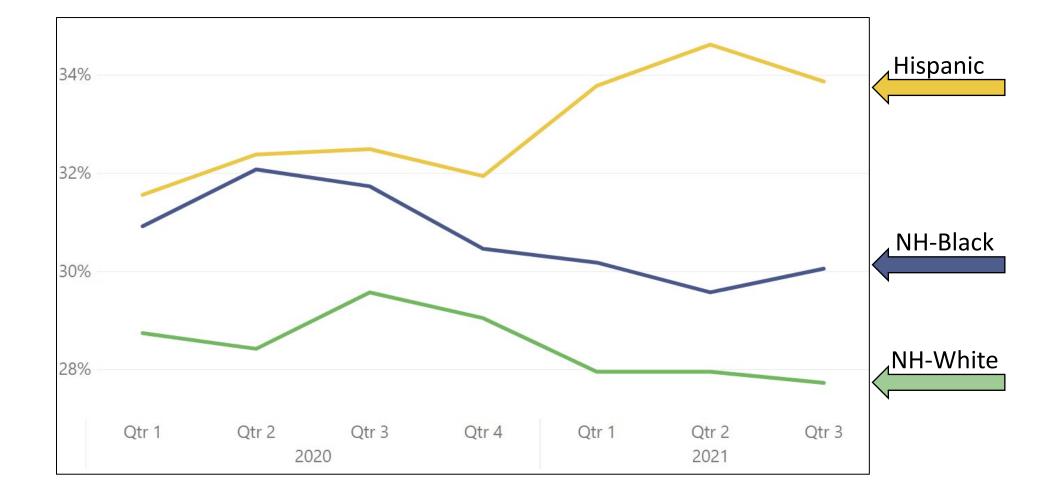






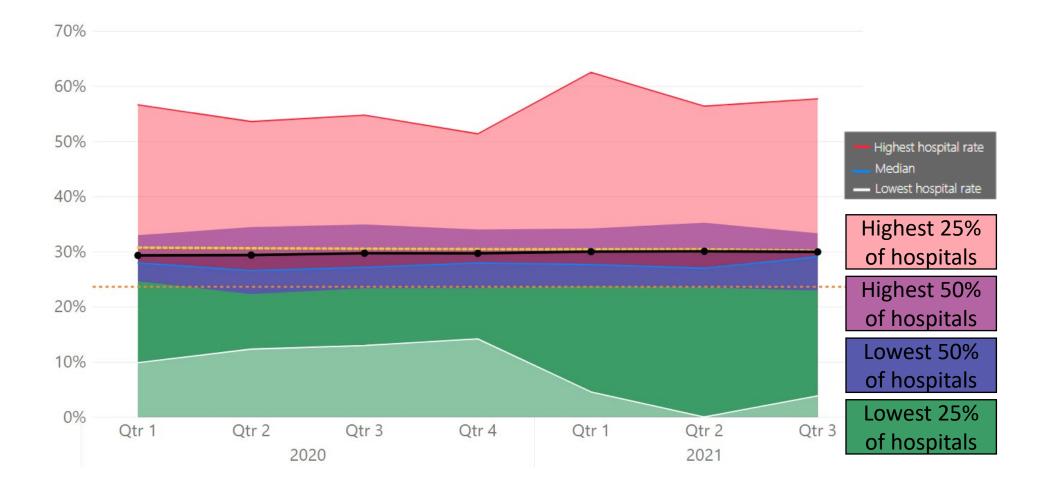


% NTSV Rates by Race/Ethnicity, PROVIDE Hospitals



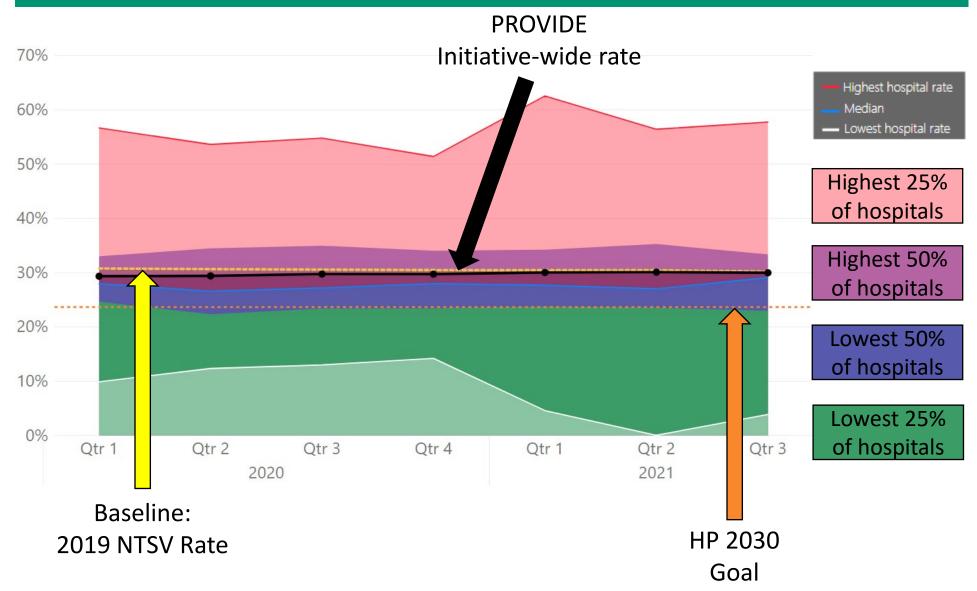


% NTSV Rate for ALL PROVIDE hospitals, 2020-2021



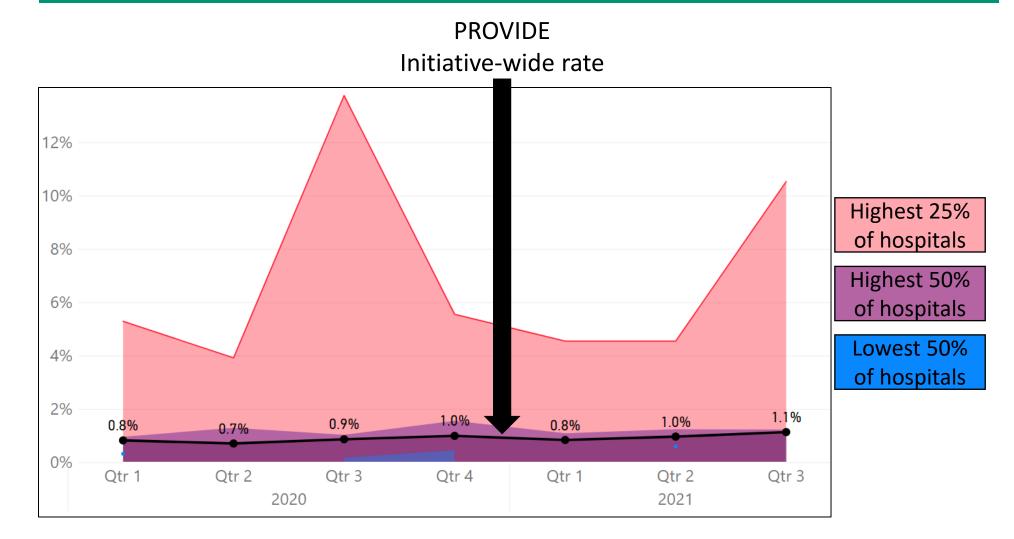


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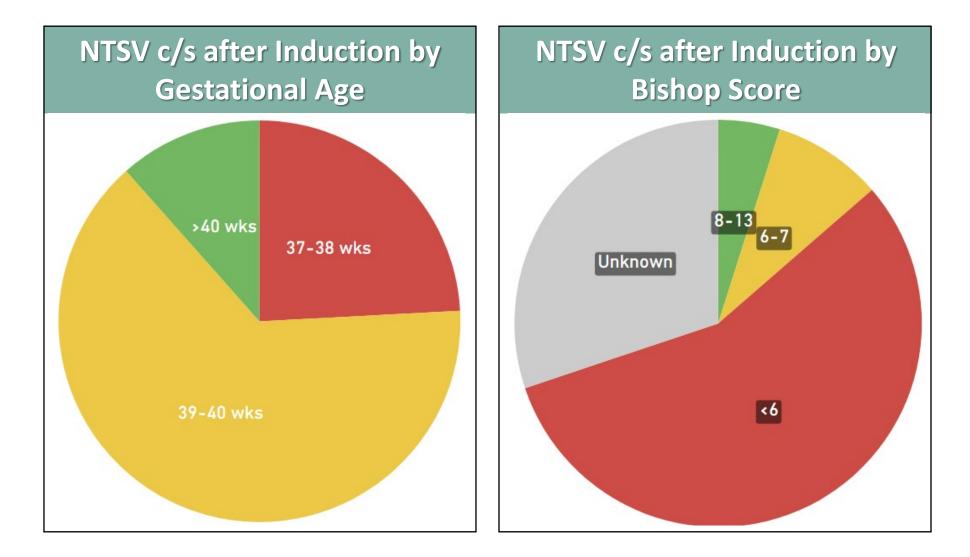


% Low APGAR Scores among NTSV Vaginal Births for ALL PROVIDE hospitals, 2020-2021



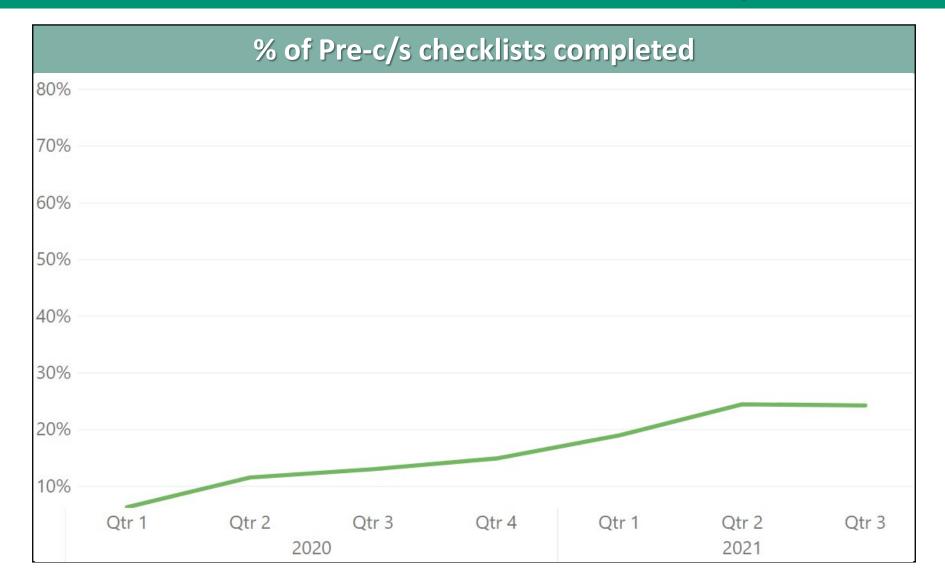


Induction NTSV c/s Characteristics





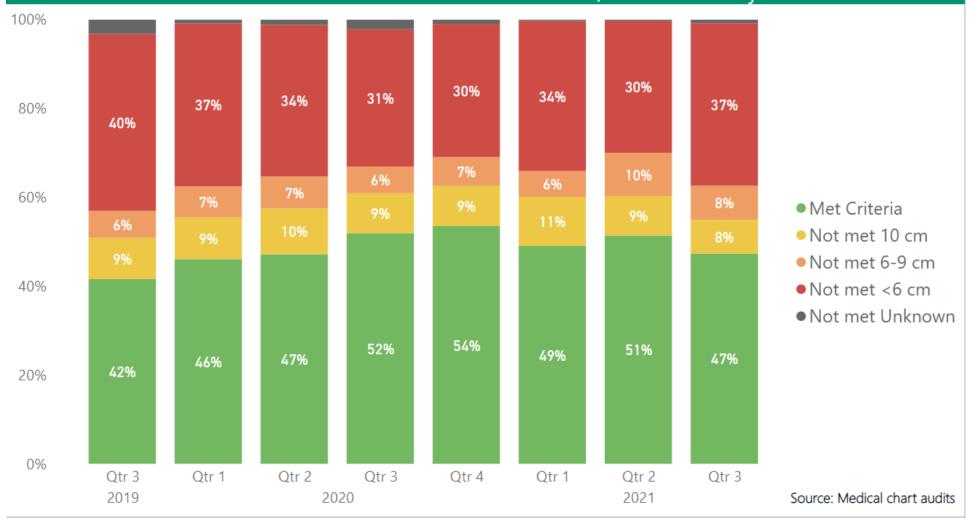
Induction- Pre-c/s Checklists Completed





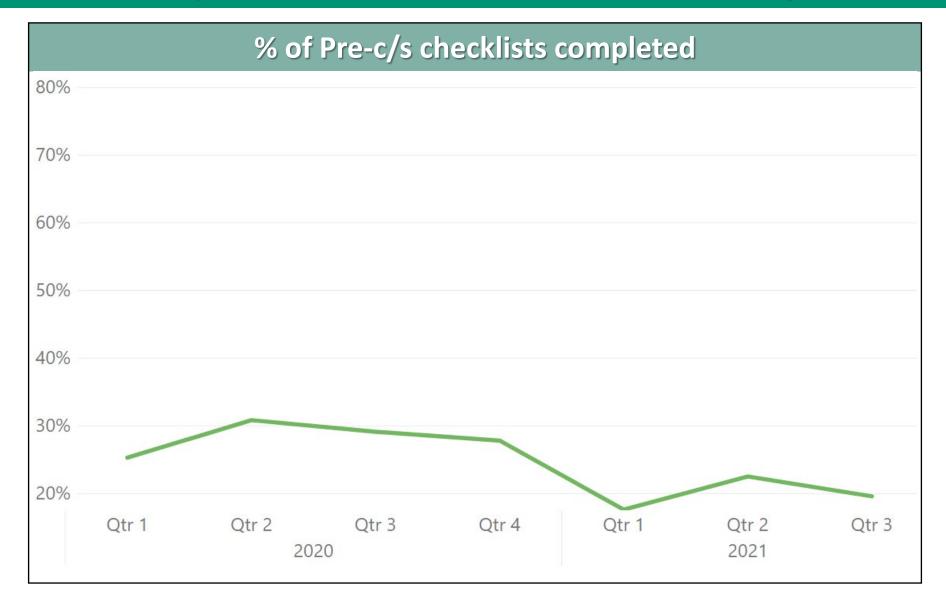
Induction- Met or did not Meet Criteria

% NTSV Cesareans after Induction that Did NOT Meet ACOG/SMFM Criteria by Cervical Dilation





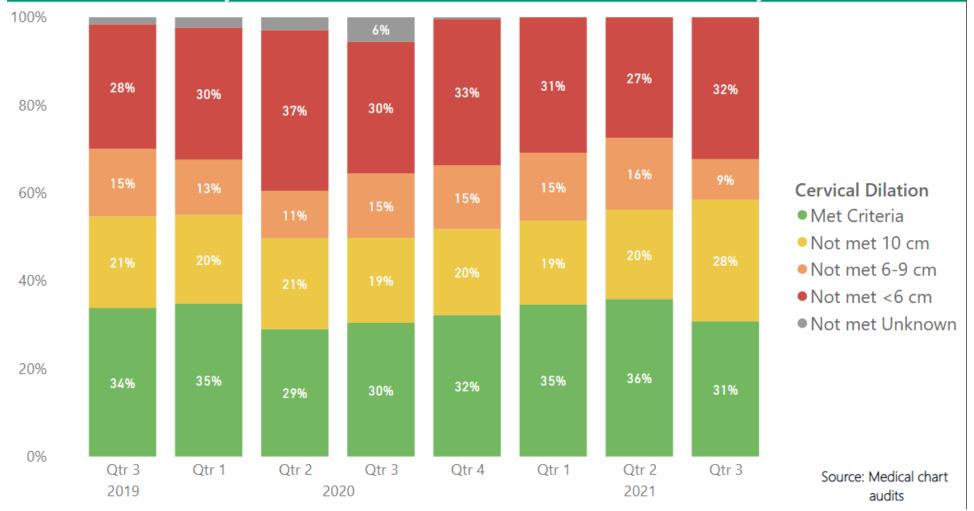
Labor Dystocia- Pre-c/s Checklists Completed





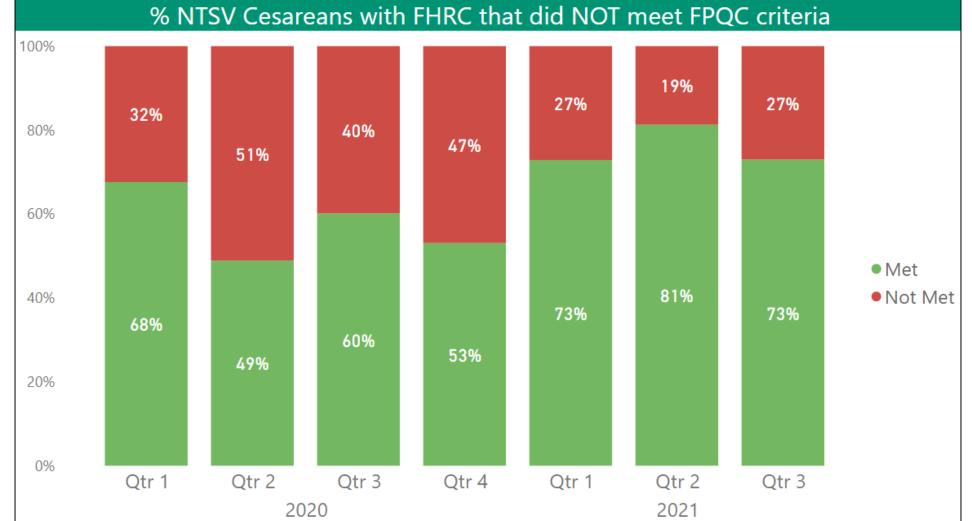
Labor Dystocia- Met or did not Meet Criteria

% NTSV c/s with Dystocia that Did NOT Meet ACOG/SMFM Criteria by Cervical Dilation



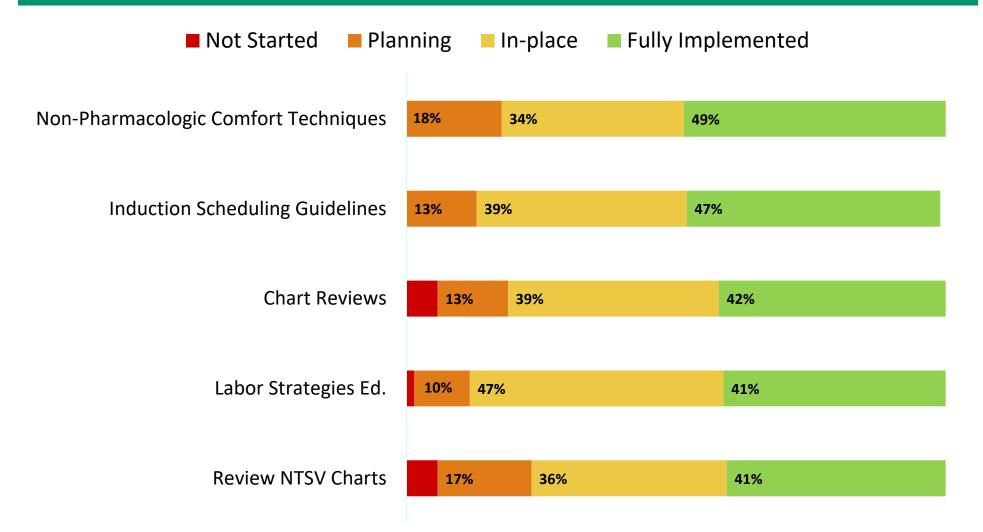


Fetal Heart Rate Concerns Met or did not Meet Criteria



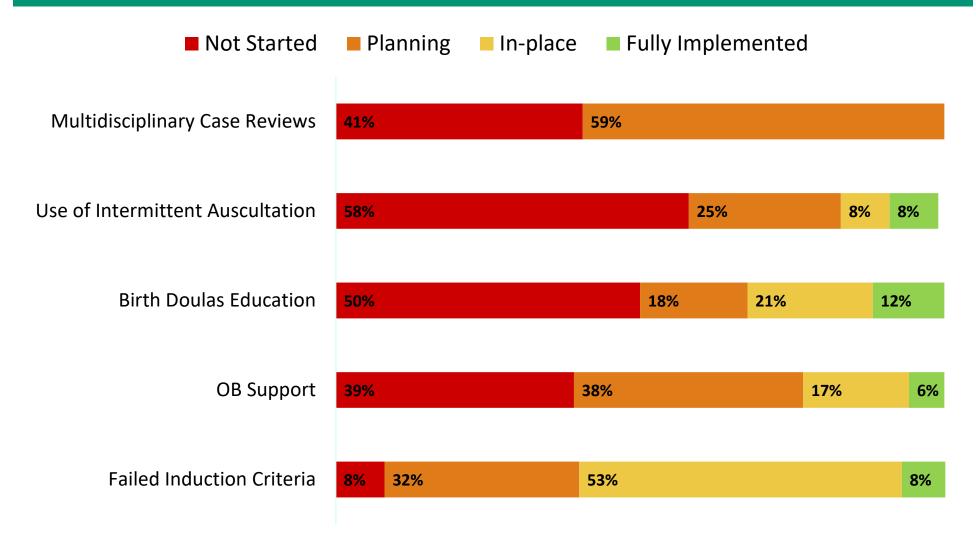


Hospital-Level Measures "Most Improved <u>Change Components</u>"





Hospital-Level Measures "Least Improved <u>Change Components</u>"





Hospital-Level Measures "Most Improved % <u>Physician</u> Education"

Physician Education	Q1 2020	Aug 2021
Intermittent Auscultation 0% 599		59%
Labor Support	20%	34%
Pain Management	29%	43%
Shared Decision Making	27%	41%
Standardized FHRC Response	25%	38%



Hospital-Level Measures "Least Improved % <u>Physician</u> Education"

Physician Education	Q1 2020	Aug 2021
Failed Induction Criteria	Failed Induction Criteria54%54%	
Second Stage Criteria	45%	47%
Labor Progress	43%	45%
Completed Ed. program on labor mgmt. guidelines		
Appropriate Admission Criteria	45%	49%



Hospital-Level Measures "Most Improved % <u>Nurse</u> Education"

Nurse Education	Q1 2020	Aug 2021
Standardized FHRC Response	38%	81%
Shared Decision Making	42%	76%
Appropriate Admission Criteria	49%	75%
Completed Ed. program on labor mgmt. guidelines	36%	54%
Pain Management	59%	72%



Hospital-Level Measures "Least Improved % <u>Nurse</u> Education"

Nurse Education	Q1 2020	Aug 2021
Active Labor Management	77%	78%
Appropriate Induction Scheduling	80%	82%
Labor Progress	70%	76%
Second Stage Criteria	62%	72%
Intermittent Auscultation	25%	35%



Take-Home Messages

- COVID-19 remains a challenge with hospital QI work
- Despite challenges, NTSV Cesarean rates are declining among participating hospitals
- Several evidence-based change components have not been implemented by many hospitals—opportunity!
- Physician education gaps are frequently seen in essential areas that need to be addressed—opportunity!
- QI is about making small tests of changes over time and learning early: "small change is good change!"



Questions?



Florida Perinatal Quality Collaborative

Research

JAMA | Original Investigation

Hospital Quality Improvement Interventions, Statewide Policy Initiatives, and Rates of Cesarean Delivery for Nulliparous, Term, Singleton, Vertex Births in California

Melissa G. Rosenstein, MD, MAS; Shen-Chih Chang, MS, PhD; Christa Sakowski, MSN; Cathie Markow, RN, MBA; Stephanie Teleki, PhD; Lance Lang, MD; Julia Logan, MD, MPH; Valerie Cape, BSBA; Elliott K. Main, MD

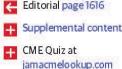
IMPORTANCE Safe reduction of the cesarean delivery rate is a national priority.

OBJECTIVE To evaluate the rates of cesarean delivery for nulliparous, term, singleton, vertex (NTSV) births in California in the context of a statewide multifaceted intervention designed to reduce the rates of cesarean delivery.

DESIGN, SETTING, AND PARTICIPANTS Observational study of cesarean delivery rates from 2014 to 2019 among 7 574 889 NTSV births in the US and at 238 nonmilitary hospitals providing maternity services in California. From 2016 to 2019, California Maternal Quality Care Collaborative partnered with Smart Care California to implement multiple approaches to decrease the rates of cesarean delivery. Hospitals with rates of cesarean delivery greater than 23.9% for NTSV births were invited to join 1 of 3 cohorts for an 18-month quality improvement collaborative between July 2016 and June 2019.

EXPOSURES Within the collaborative, multidisciplinary teams implemented multiple strategies supported by mentorship, shared learning, and rapid-cycle data feedback. Partnerships among nonprofit organizations, state governmental agencies, purchasers, and health plans addressed the external environment through transparency, award programs, and incentives.

MAIN OUTCOMES AND MEASURES The primary outcome was the change in cesarean delivery





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What Can Florida Do to Have CA's Results?







What Can Florida Do to Have California's Results* in Reducing Low Risk (NTSV) Cesarean Births?

CA FL State Level



- Annual state recognition of hospital reaching the national goal for NTSV cesarean rates
- Online education of mothers on cesarean births and birth preferences: My Birth Matters
- Current publicly available NTSV cesarean rates shown by hospital for easy patient access

Multiple private health insurance companies/plans incentivizing hospital participation and reducing rates

Medicaid/Medicaid plans incentivizing hospitals to address overuse of cesarean delivery

FPQC Level?





FL Perinatal Quality Collaborative Level

Encouraging use of the CMQCC toolkit

Participating in Alliance for Innovation in Maternal Health (AIM), the national organization supporting perinatal quality collaboratives in this quality improvement effort.

Individualizing hospital education and support thru consultation, site visit and grand rounds

- Identifying of individual hospital issue drivers based on baseline assessment
- Providing rapid cycle hospital QI data sharing
- Providing hospitals with identified obstetrical provider NTSV cesarean rates
- Supporting coaching calls with hospital groups using volunteer physician and nurse mentors
 - Using paid mentors for coaching calls with 6 to 8 hospitals compared to 20+ hospitals
- Providing peer-to-peer education for obstetrical providers through academic detailing
- Offering initiatives over time in phases in order to work with fewer hospitals at one time
- Ongoing assessment of individual hospital performance with individualized coaching

Perform individual hospital culture surveys with tailored action planning

*Rosenstein MG, Chang SC, Sakowski C, *et al.* (2021) Hospital quality improvement interventions, statewide policy initiatives, and rates of cesarean delivery for nulliparous, term, singleton, vertex births in California. *JAMA* 325(16):1631-1639.



Hospital Level?



What Did California's Maternity Hospitals Do to Get Their Results* In Reducing Low Risk (NTSV) Cesarean Births?

CA Yours Hospital Level

99%		CLINICAL EDUCATION
98%		Physician or nurse educational presentation
45%		Manual rotation of occiput posterior
NA		Supporting safe vaginal birth training
90%		LABOR SUPPORT ACTIVITIES
53%		Peanut balls
33%		Doula program
<mark>86%</mark>		LABOR MANAGEMENT
65%		Labor dystocia checklist
<mark>45%</mark>		Active phase huddle
45%		Latent labor management
24%		Electronic medical record order sets
85%		SHARING OF UNBLINDED PHYSICIAN-LEVEL NTSV CESAREAN RATES
	Advenue d	

How much of a "final push" can you and other PROVIDE teams make these next 9 months to reduce our NTSV cesarean rates the sama as California?

- Strong effort
- Moderate effort
- Some effort
- Not sure



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YOU ARE THE BEST! LET'S MAKE THE FINAL PUSH!



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