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Faculty Disclosure Session Objectives



Name	Employer	Conflict of Interest	Sponsorship/ Commercial Support
Rhonda Maneval	Michigan State University	None	None
Deborah Schafer	Pinnacle Health System	None	None
Erin Anderson	Pinnacle Health System	None	None

Objectives

The learner will able to explain the process undertaken to explore reports of newborn hypothermia as a result of an evidence-based practice change.

The learner will be able to state the 3 outcomes achieved as a result of the unit based research study and dissemination strategies.



Skin-to-skin care Neonatal transition



- Skin- to- skin care (S2S)
- Vaginal deliveries
 - Decreased incidence of hypothermia and hypoglycemia
 - Increased patient satisfaction
- Post Anesthesia Recovery Unit
- Phase 2: Operating Room



Impact on practice implementation



- Challenges
 - Physicians
 - Environment
 - Processes
- Nursing concerns
- Nursing leadership team
 - Valued concerns
 - Plan: unit-based research study



Research Study



- Descriptive exploratory
- Purpose
 - Determine maternal and neonatal temperatures postoperatively while S2S is being performed in the operating room and the recovery room
- Sample: 201
- Data collection
 - Interrater reliability established

Results



- Neonatal hypothermia (less than 36.5°)
 - 7.4% within first 90 minutes of life
- Newborns with normal temperature (36.5° 37.4°):
 - 80.1% at 30 minutes of age
 - 87.1% at 60 minutes of age
 - 92.6% at 90 minutes of age
- Mean newborn temp at all three measurement points: 36.7°



Demographics



		Babies within No Temperature Ra		Babies NOT within Normal Temperature Range		p-Value
	Total number of babies	186		15		
	Mother's age >=35 - no.,%	26	13.98%	2	13.33%	1.0000
	Race – no.,%					
	Caucasian	116	62.37%	8	53.33%	0.4888
	Black	29	15.59%	5	33.33%	0.1418
	Hispanics	22	11.83%	2	13.33%	0.6957
	Gestational Age =>39 – no., %	151	82.07%	12	80.00%	0.7377



Mother's and Baby's First Temperature Comparison



	Number of Subjects	Mean	Std Dev	Minimum	Maximum
Mother's First Temperature	198	36.5	0.5	35.2	38.3
Baby's First Temperature	198	36.8	0.4	35.3	37.6



Babies within Normal Temperature Range by BMI MICHIGAN STATE



	Babies within Normal Temperature Range		Babies NOT within Normal Temperature Range		p-Value
Total number of babies	186		15		
Mother's Weight	Number	Percent	Number	Percent	
Normal (BMI<25)	10	5.38%	1	6.67%	0.5836
Overweight (BMI>= 25 to <30)	52	27.96%	1	6.67%	0.1230
Obese (BMI>=30 to <40)	94	50.54%	10	66.67%	0.2291
Morbid obese (BMI>=40)	30	16.13%	3	20.00%	0.7171

Intake; Estimated Blood Loss; Case Duration



	Babies within Normal Temperature Range		Babies NOT within Normal Temperature Range		p-Value
Total number of babies	186		15		
	Number	Percent	Number	Percent	
IV fluid intake > 1,000 ml	140	75.27%	10	66.67%	0.3652
Estimated blood loss >=1,000ml	8	4.30%	0	0.00%	1.0000
Case Duration					
< 30 min	60	32.26%	3	20.00%	
31 - 45 min	84	45.16%	9	60.00%	
46 - 60 min	31	16.67%	2	13.33%	
>60 min	11	5.91%	1	6.67%	0.7056



Evidence-Based Practice



- Goal
 - Translate research into practice
- Dissemination
- Action plan
 - Bed side nurse ownership
- Evaluation/Outcomes measurement
 - Essential to determine effectiveness of practice change



Integration into Practice



- Informal leaders/Champions
 - Identified barriers
 - Developed approaches to decrease resistance/increase buy-in
 - Goal: S2S within 15 minutes of delivery
- Monthly audits
 - Shared with staff
 - Ongoing mentoring



Outcome Measures

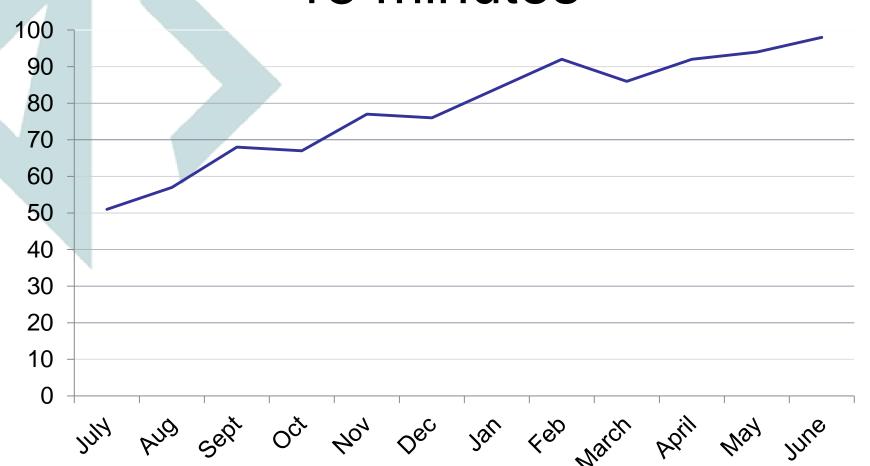


- S2S
 - Performed
 - Initiated within 15 minute
- Breastfeeding within 60 minutes of birth
- Bonding
- Patient satisfaction



Skin to skin within 15 minutes







Bonding and Patient Satisfaction



- "S2S in the OR was wonderful. I got time to see her, know her, keep her warm and know that she was OK right away."
- "Both my baby and I enjoyed S2S. It was calming and soothing and helped with breastfeeding."
- "This experience (with S2S) was so much better than five years ago. I am so happy and I would be happy to talk to anyone who might be a little leery about doing S2S in the operating room. It was the best!"



Additional outcomes



- Empowered the bed side nurse to take ownership of practice change
- Communicated the value and respect the organization holds for the expertise of nursing
- Create a renewed/ongoing/heightened spirit of clinical inquiry

