BRINGING BABY-FRIENDLY TO NJ: BREASTFEEDING OUTCOMES FOR A STATEWIDE IMPLEMENTATION APPROACH

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Presenter Disclosures

Lori Feldman-Winter, MD, MPH

- In the past 12 months, I have not had a significant financial interest or other relationship with the manufacturer(s) of the product(s) or provider(s) of the service(s) that will be discussed in my presentation.
- This presentation will not include discussion of pharmaceuticals or devices that have not been approved by the FDA.

Learning Objective

- Identify the association between widespread implementation of the Ten Steps and infant feeding outcomes
 - In association with a statewide coalition

| Background | _ |
|--|---|
| Baby-Friendly designated hospitals in 2010 | |
| One of the highest rates of supplementation | |
| (CDC report card)-38% in 2008 CDC CPPW-STI funding permitted organization | |
| of a statewide coalition | |
| The first NJ Baby-Friendly Summit convened to raise awareness of mini-grants for a project to | |
| help them become designated | |
| | |
| | |
| | |
| | |
| Background | |
| NJ DOH & AAPNJ established project aims: Baby- | |
| Friendly designation in at least 2 out of 10 of the selected hospitals | |
| Coordinated with NJ State Coalition for steps 3 and 10 | |
| Core team developed plan for recruitment and project design | |
| First Statewide SummitFirst learning session | |
| One long action period with monthly TA callsWeb sharing | |
| - Site visits | |
| | - |
| | |
| | |
| Methods | |
| | |
| Examined all 10 NJ hospitals participating in an intensive, state-supported program to help hospitals attain Baby-Friendly designation | |
| Rates of any and exclusive breastfeeding using the NJ Electronic Birth Certificate data before | |
| (2010) vs. after (2012) project implementation • Examined healthy and NICU populations | |
| Hospitals varied in the number and choice of Steps on which they focused | |
| Assessed the relationship with breastfeeding rates and the number of Steps mastered. | |
| races and the number of steps mastered. | |
| | |

Methods Steps Mastered & EBC

- Steps mastered assessed by team lead self appraisal using a survey modified from the Baby-Friendly USA Self-Appraisal tool and in-depth interviews post-intervention
- Pre (first quarter 2010) vs. post (first quarter 2012) overall and exclusive breastfeeding using NJ Electronic Birth Certificate (NJ EBC) data
- NJ EBC defines feeding patterns for the 24 hours before hospital discharge for all newborns in NJ

Results Ten NJ Hospitals

| | | Hospital | | | | | | | | |
|---|---------|----------|-------|-------|-------|-------|---------|-------|---------|-------|
| | | | | | | | | | 1 | |
| Number of births discharged home (2010) | 1,629 | 1,514 | 748 | 4,132 | 963 | 1,755 | 1,795 | 2,043 | 1,386 | 1,693 |
| Region | Central | Central | North | North | South | South | Central | South | Central | South |
| Perinatal risk score* | 4 | 1 | 0 | 2 | 4 | 4 | 2 | 3 | 2 | 3 |
| Race/ethnicity | | | | | | • | | | | |
| White (non- Hispanic) | 34% | 71% | 79% | 53% | 21% | 29% | 41% | 31% | 70% | 37% |
| Hispanic | 28% | 18% | 11% | 14% | 44% | 31% | 32% | 45% | 12% | 31% |
| Black | 33% | 4% | 2% | 24% | 28% | 32% | 13% | 23% | 17% | 21% |
| Asian/PI/Other | 6% | 7% | 7% | 9% | 7% | 9% | 15% | 2% | 2% | 10% |

"Perinatal risk score is an index composed of tetal and neonatal deaths, low birthweight, infant mortality, late prenatar care, and tene birk ratio. It was used in the grant review process to identify hospitals serving a trisk populations. For srange from 0 to 5 and the higher the score, the higher the index value and the more at-risk the population. For additional explanation, please see: http://www.nij.gov/health/fls/grofessional/documents/gra_report.pdf

Results



- All 10 hospitals had adopted a global infant feeding policy
- All 10 gave up the practice of giving out formula company discharge packs
- 3 Hospitals received Baby-Friendly designation
- ~ Capital Health
 - ~ Jersey Shore University Medical Center
 - ~ Centra State

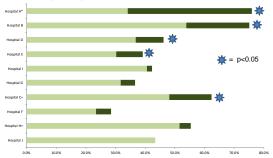


ResultsBreastfeeding rates before vs. after intervention

| | Healthy term infants | | | | 1 | NICU infants | | | |
|--------------------------------------|----------------------|---------------------|-------------|---------|---------------------|--------------------|-------------|---------|--|
| | 2010 Q1 (n=4254) | 2012 Q1 (n=4169) | % change | Р | 2010 Q1 (n=1040) | 2012 Q1 (n=830) | % change | Р | |
| Overall Breastfeeding No (%) | 3020 (71.0) | 3117 (76.2) | 5.4 | <0.0001 | 609 (58.6) | 559 (67.3) | 8.5 | <0.0001 | |
| Exclusive Breastfeeding No (%) | 1642 (38.6) | 2076 (49.4) | 10.8 | <0.0001 | 196 (18.8) | 182 (22.7) | 3.9 | 0.02 | |

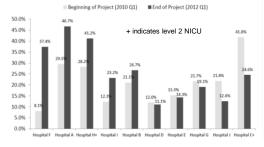
Feldman-Winter L., et al. Bringing Baby=Friendly to NJ. In draft. 2013.

Exclusive Breastfeeding Rates by Steps Achieved, Non-NICU



Exclusive breastfeeding rates among NICU discharges

pre and post intervention by hospital

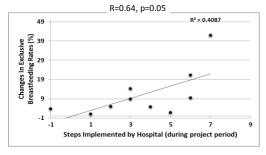


Number of Steps Mastered During Project Period

ordered by change in % breastfeeding

Hospital A
Hospital B
Hospital C
Hospital C
Hospital B
Hospital C
Hospital G
Hospital F
Hospital F
Hospital B

Association between Steps mastered during intervention period and change in exclusive breastfeeding among healthy term newborns, by hospital



Association between total number of Steps in place at the end of the project, and exclusive breastfeeding among healthy infants, by hospital

