RABLAZER ADVENTIRER Baby Friendly Initiative: Quality Improvement with a Kick!

Nathan C. Nickel, MPH, PhD Assistant Professor, Community Health Sciences University of Manitoba









ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY ADVENTURER TRAILBLAZER CHALLENGER ISIONARY ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY TRADITIONAL TERRITORIES ACKNOWLEDGEMENT

The University of Manitoba campuses are located on original lands of Anishinaabeg, Cree, Oji-Cree, Dakota, and Dene peoples, and on the homeland of the Métis Nation.

We respect the Treaties that were made on these territories, we acknowledge the harms and mistakes of the past, and we dedicate ourselves to move forward in partnership with Indigenous communities in a spirit of reconciliation and collaboration.





Disclosure Statement

Research presented here was supported by the following:

- Canadian Institutes for Health Research
- Research Manitoba
- Kellogg Foundation

I am Scientific Chair for Breastfeeding at the American Public Health Association and am on the Executive Council for the International Society for Research in Human Milk and Lactation

In addition to above, I have also had money from the Duke Endowment, the Heart and Stroke Foundation, and the Canadian Foundation for Innovation



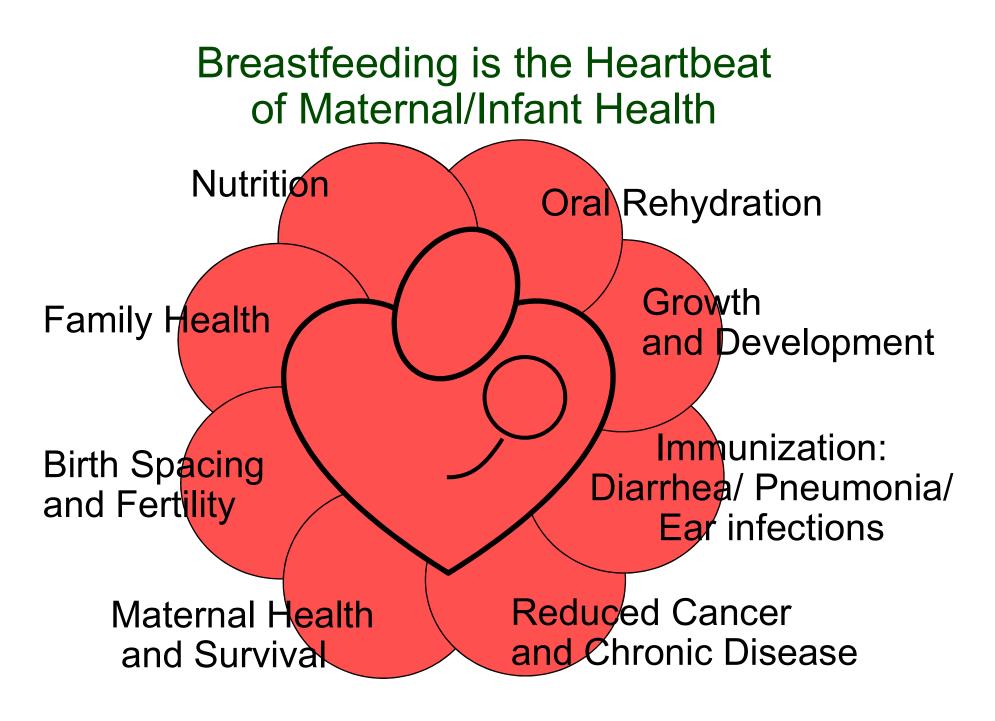


Learning Objectives

- Summarize current literature on breastfeeding inequities
- Describe different approaches to reducing breastfeeding inequities
- Discuss some emerging strategies to reduce breastfeeding inequities







Logo, Breastfeeding Division, IRH



BREASTFEEDING INEQUITIES





Breastfeeding Inequities

Original Article

Breastfeeding in England: time trends 2005–2006 to 2012–2013 and inequalities by area profile

Laura L. Oakley*, Jennifer J. Kurinczuk*, Mary J. Renfrew[†] and Maria A. Quigley*

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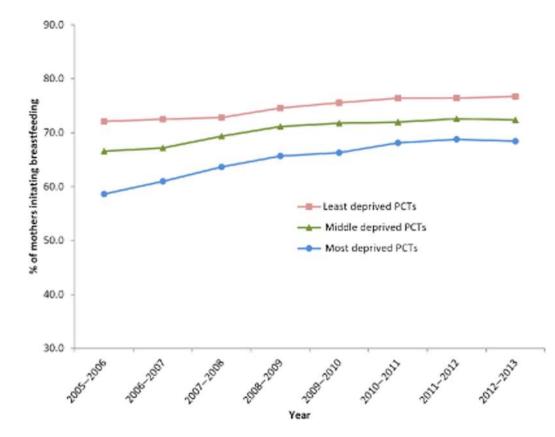
Abstract

Breastfeeding rates in England have risen steadily since the 1970s, but rates remain low and little is known about GILBERTO F. CHÁVEZ, MD, MPH^c breastleeding among a rate, random sample of euclidean about diverse women.

Methods. This study used logistic regression analysis to examine the influence of a range of socioeconomic factors on the chances of ever breastfeeding



Breastfeeding in England: time trends 2005–2006 to 2012– 2013 and inequalities by area profile

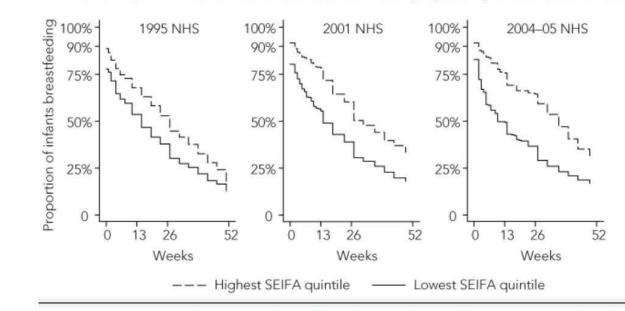


Breastfeeding in England: time trends 2005–2006 to 2012–2013 and inequalities by area profile, Volume: 12, Issue: 3, Pages: 440-451, First published: 24 November 2014, DOI: (10.1111/mcn.12159)



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2 Breastfeeding duration: weighted estimates of proportions of infants breastfeeding at 0–52 weeks in the 1995,
 2001 and 2004–05 National Health Surveys (NHSs) in the lowest and highest SEIFA quintiles*

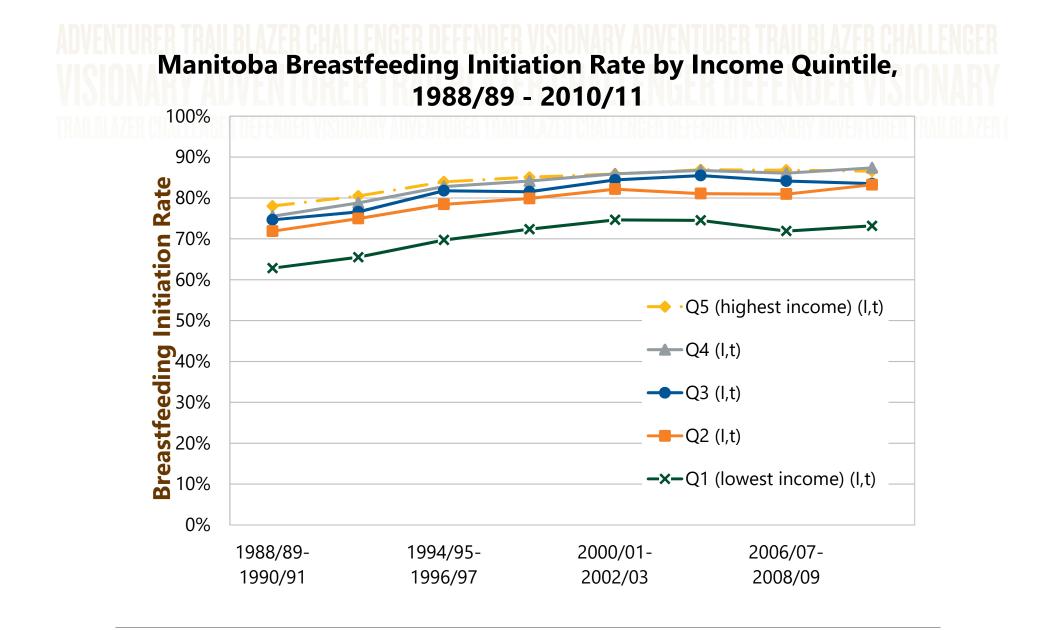


SEIFA = Socio-Economic Indexes for Areas.¹¹ * Lowest quintile has lowest incomes and highest proportion of unskilled workers.

Socioeconomic status and rates of breastfeeding in Australia: evidence from three recent national health surveys. Med J Aust. 2008 Sep 1;189(5):254-6.







Nickel CJPH 2013





APPROACHES TO ADDRESS INEQUITIES



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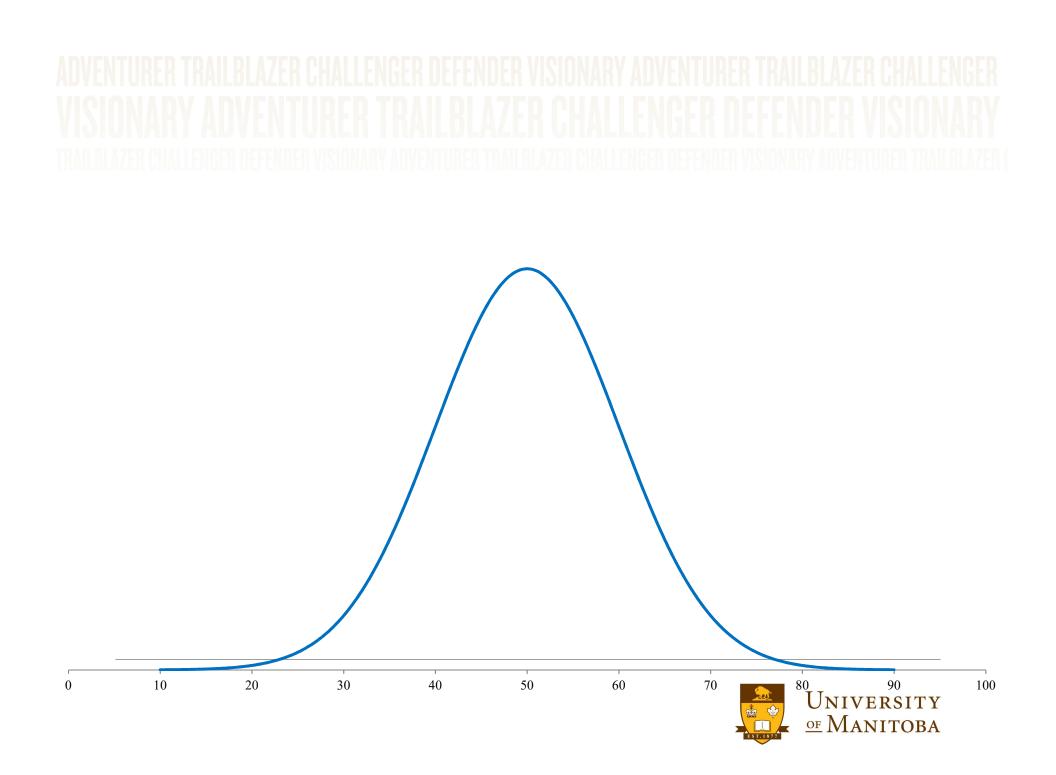
• **Rose's Theorem:** "a large number of people at small risk may give rise to more cases of disease than a small number who are at high risk."

Reference

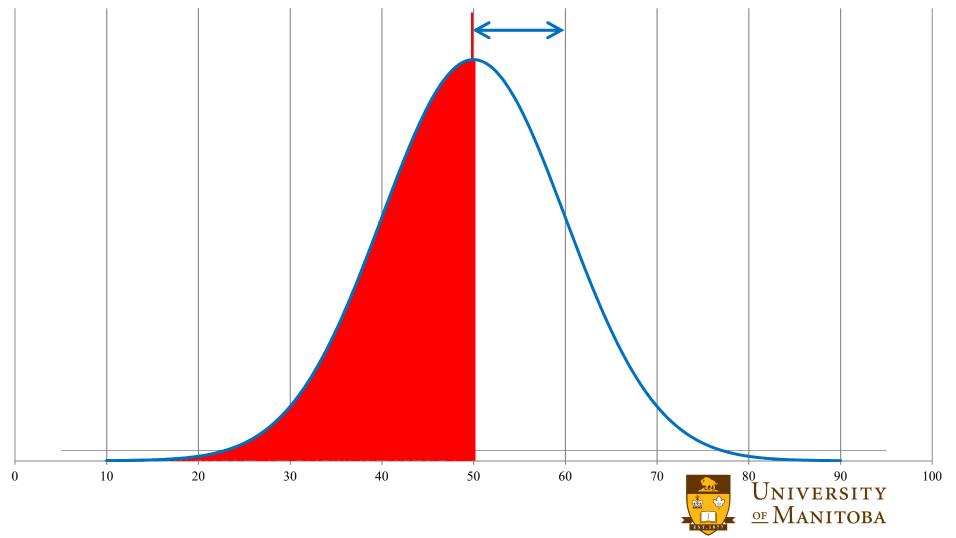
Rose, G. The Strategy of Preventive Medicine.
 Oxford, England: Oxford University Press; 1992.









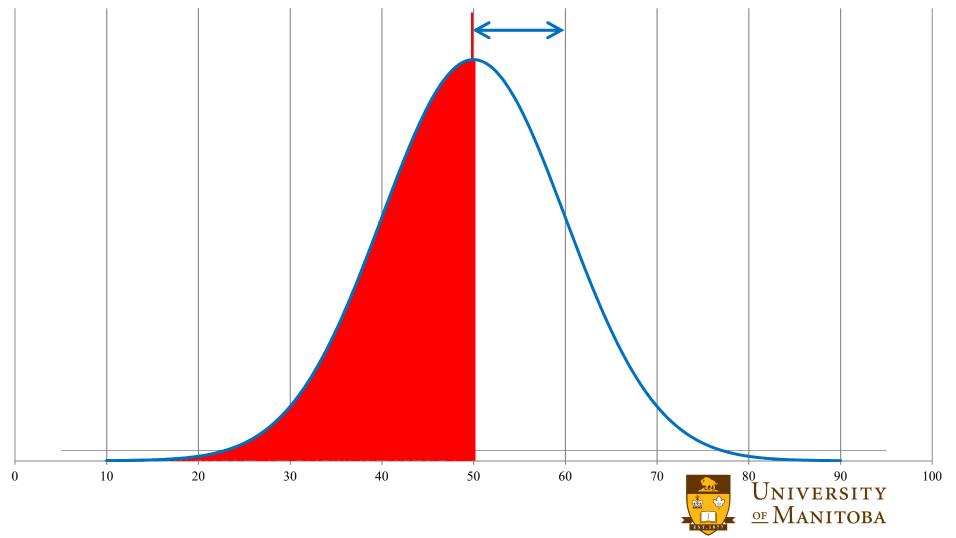


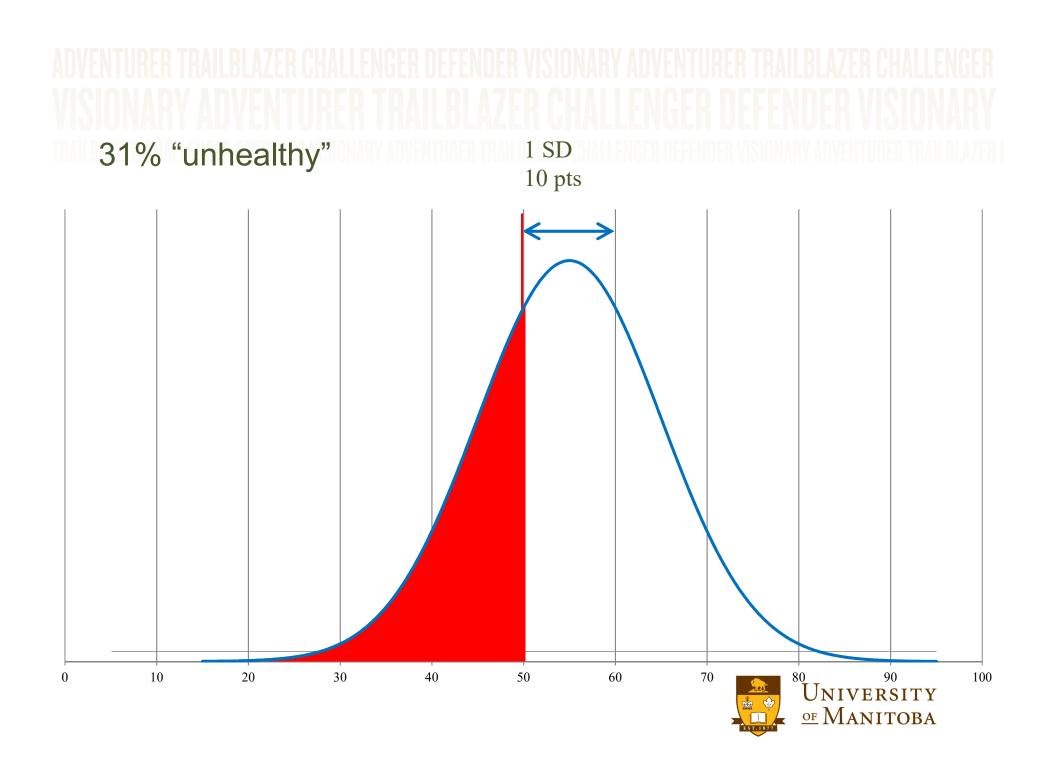


What if we could help everyone improve by **JUST 5 POINTS**?





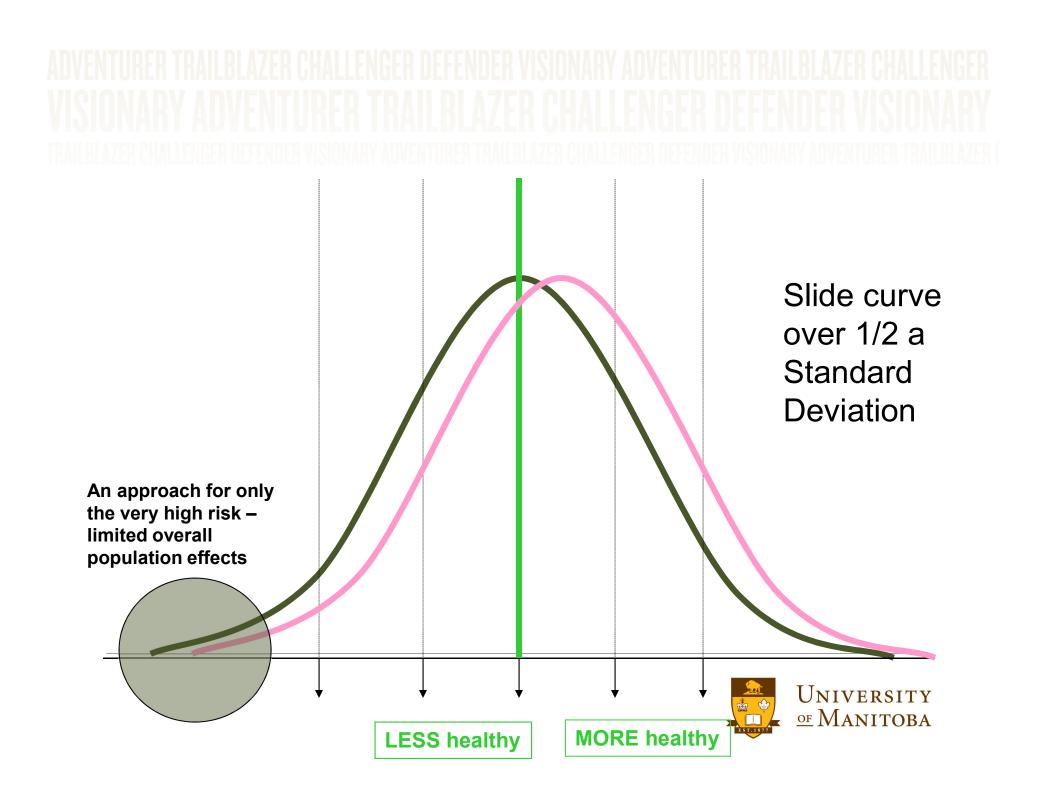






31% "unhealthy"





Rose-Theorem Coloured Glasses: Population-based Effects!

Strategies to Address Inequities

"Shift and Squish"

• SHIFT: Universal Programs

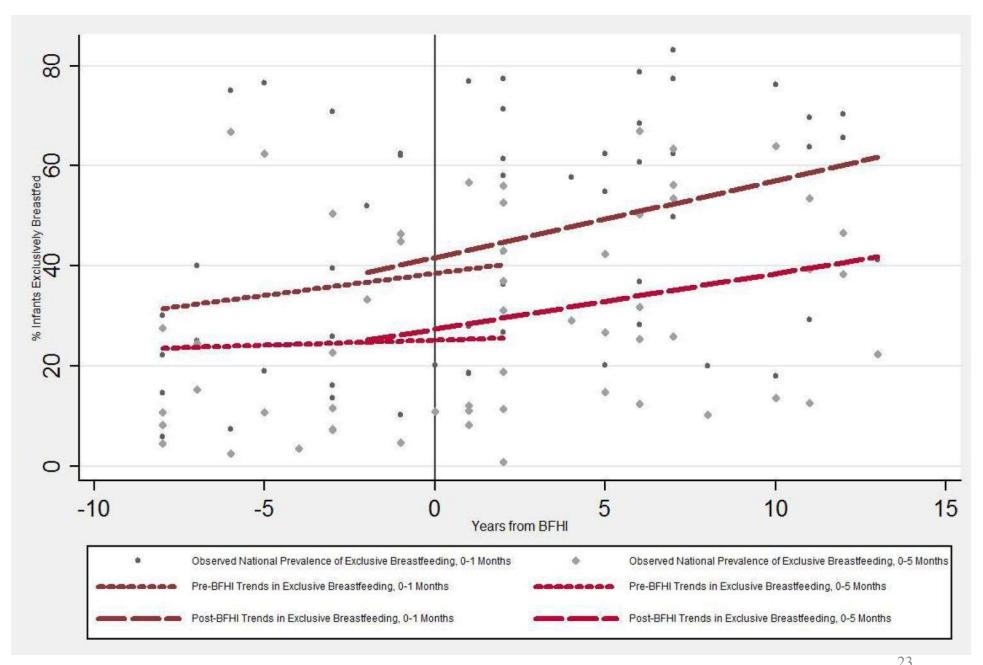




ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY ADVENTURER TRAILBLAZER CHALLENGER ISIONARY ADVENTIRER TRAILBLAZER CHALLENGER DEFENDER VISIONARY Baby Friendly

- WHO and UNICEF launched the Baby-friendly Hospital Initiative (BFHI) in 1991.
- Comprehensive, global strategy to protect, promote and support breastfeeding.





Abrahams, S.W. and Labbok, M.H. "Exploring the impact of the Baby-Friendly Hospital Initiative on trends in exclusive breastfeeding."²³2009

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Ten Steps to Successful Breastfeeding

- 1. Have a written breastfeeding policy that is routinely communicated to all health care staff.
- 2. Train all health care staff in skills necessary to implement this policy.
- 3. Inform all pregnant women about the benefits and management of breastfeeding.
- 4. Help mothers initiate breastfeeding within the first hour of birth.
- 5. Show mothers how to breastfeed and how to maintain lactation even if they should be separated from their infants.



Ten Steps to Successful Breastfeeding

- 6. Give newborn infants no food or drink, other than human milk, unless medically indicated.
- 7. Practice rooming-in—that is, allow mothers and infants to remain together 24 hours a day.
- 8. Encourage breastfeeding on demand.
- 9. Give no artificial nipples or pacifiers to breastfeeding infants.
- 10. Foster the establishment of breastfeeding support groups and refer mothers to them on discharge from the hospital or clinic.



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Do the Ten Steps to Successful Breastfeeding make a difference?



ORIGINAL CONTRIBUTION

Promotion of Breastfeeding Intervention Trial (PROBIT)

A Randomized Trial in the Republic of Belarus

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Elisabet Helsing, PhD	
for the PROBIT Study Group	

REASTFEEDING HAS BEEN WIDELY reported to reduce the risk of infection1-11 and atopic disease^{1,12-15} in the recipient infant and child. The effect of breastfeeding in protecting against infection is more striking, and thus easier to demonstrate, in settings where poverty, malnutrition, and poor hygiene are preva-

Context Current evidence that breastfeeding is beneficial for infant and child health is based exclusively on observational studies. Potential sources of bias in such studies have led to doubts about the magnitude of these health benefits in industrialized countries.

Objective To assess the effects of breastfeeding promotion on breastfeeding duration and exclusivity and gastrointestinal and respiratory infection and atopic eczema among infants.

Design The Promotion of Breastfeeding Intervention Trial (PROBIT), a clusterrandomized trial conducted June 1996-December 1997 with a 1-year follow-up.

Setting Thirty-one maternity hospitals and polyclinics in the Republic of Belarus.

Participants A total of 17046 mother-infant pairs consisting of full-term singleton infants weighing at least 2500 g and their healthy mothers who intended to breastfeed, 16491 (96.7%) of which completed the entire 12 months of follow-up.

Interventions Sites were randomly assigned to receive an experimental intervention (n = 16) modeled on the Baby-Friendly Hospital Initiative of the World Health Organization and United Nations Children's Fund, which emphasizes health care worker assistance with initiating and maintaining breastfeeding and lactation and postnatal breastfeeding support, or a control intervention (n=15) of continuing usual infant feeding practices and policies.

Main Outcome Measures Duration of any breastfeeding, prevalence of predominant and exclusive breastfeeding at 3 and 6 months of life and occurrence of 1 or more episodes of gastrointestinal tract infection, 2 or more episodes of respiratory tract infection, and atopic eczema during the first 12 months of life, compared between the intervention and control groups.

Results Infants from the intervention sites were significantly more likely than control infants to be breastfed to any degree at 12 months (19.7% vs 11.4%; adjusted odds ratio [OR], 0.47; 95% confidence interval [CI], 0.32-0.69), were more likely to be exclusively breastfed at 3 months (43.3% vs 6.4%; P<.001) and at 6 months (7.9% vs 0.6%; P=.01), and had a significant reduction in the risk of 1 or more gastrointestinal tract infections (9.1% vs 13.2%; adjusted OR, 0.60; 95% Cl. 0.40-0.91) and of atopic eczema (3.3% vs 6.3%; adjusted OR, 0.54; 95% Cl, 0.31-0.95), but no significant reduction in respiratory tract infection (intervention group, 39.2%; control group, 39.4%; adjusted OR, 0.87; 95% CI, 0.59-1.28).

Conclusions Our experimental intervention increased the duration and degree (exclusivity) of breastfeeding and decreased the risk of gastrointestinal tract infection and atopic eczema in the first year of life. These results provide a solid scientific underpinning for future interventions to promote breastfeeding. JAMA. 2001;285:413-420

www.jama.com

See also p 463 and Patient Page.

Corresponding Author: Michael S. Kramer, 1020 Pine Ave W, Montreal, Quebec, Canada H3A 1A2 (e-mail: mkrame@po-box.mcgill.ca). Author Affiliations and other participating members of the PROBIT Study Group are listed at the end of

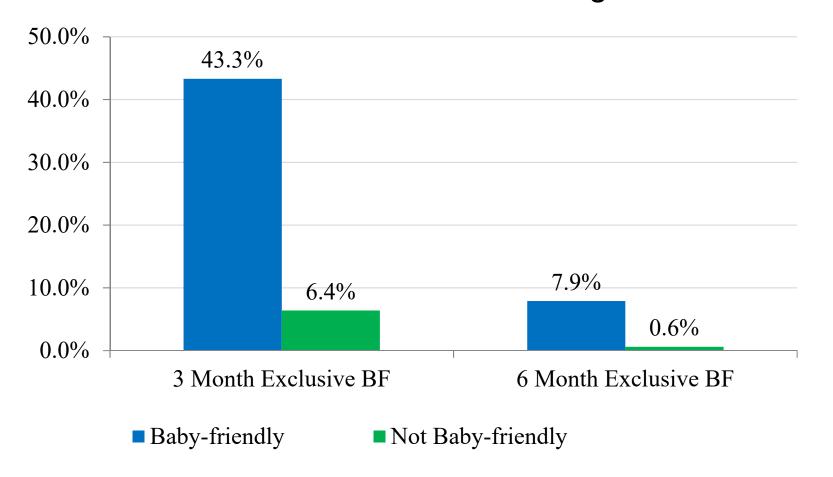
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(Reprinted) JAMA, January 24/31, 2001-Vol 285, No. 4 413



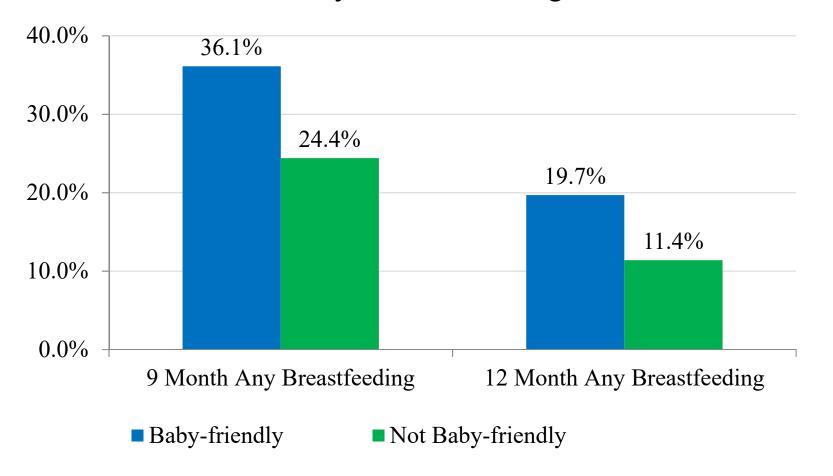
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ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY ADVENTURER TRAILBLAZER CHALLENGER VISIONARY ADVENTIRER TRAILBLAZER CHALLENGER DEFENDER VISIONARY Exclusive Breastfeeding





ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY ADVENTURER TRAILBLAZER CHALLENGER VISIONARY ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY Any Breastfeeding





Do the Ten Steps make a difference?

SUPPLEMENT ARTICLE

Effect of Maternity-Care Practices on Breastfeeding

Ann M. DiGirolamo, PhD, MPH^a, Laurence M. Grummer-Strawn, PhD^b, Sara B. Fein, PhD^c

^aHubert Department of Global Health, Emory University, Atlanta, Georgia; ^bNational Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention, Atlanta, Georgia; ^cCenter for Food Safety and Applied Nutrition, Food and Drug Administration, US Department of Health and Human Services, College Park, Maryland

The authors have indicated they have no financial relationships relevant to this article to disclose.

- Initiate breastfeeding within 1hr after birth (Step 4).
- Not provide formula to breastfed infant (Step 6).
- Not provide a pacifier to breastfed infant (Step 9).



RESEARCH AND PRACTICE

Hospital Practices and Women's Likelihood of Fulfilling Their Intention to Exclusively Breastfeed

Eugene Declercq, PhD, Miriam H. Labbok, MD, MPH, Carol Sakala, PhD, MPH, and MaryAnn O'Hara, MD, MPH

Exclusive breastfeeding through at least the first 6 months is the physiologically appropriate approach to infant feeding.¹ Mixed or formula feeding carries with it increased risks of infection, developmental problems, mortality, and longterm ailments such as diabetes and cancers for mother and child.²⁻⁵ In support of the evidence, the American Academy of Pediatrics,6 American College of Obstetrics and Gynecology,7 the American Public Health Association,8 the World Health Organization,9 and many other medical and health professional organizations¹⁰⁻¹² recommend that infants consume only mother's milk (exclusive breastfeeding) for at least the first 6 months of life, followed by continued breastfeeding with age-appropriate nutrient-rich complementary foods. The revised US Healthy People 2010 national objectives call for 17% of new mothers to be exclusively breastfeeding at 6 months.¹³ Nonetheless, national statistics indicate that less than 12% of mother-baby pairs achieve this goal14

The "Ten Steps for the Protection, Promotion and Support of Breastfeeding"¹⁵ are the central part of the Baby-Friendly Hospital Initiative, along with adherence to the International Code of Marketing of Breast-Milk Substitutes and subsequent World Health Organization resolutions.¹⁶ These practices have been reported to support breastfeeding behaviors and influence outcomes,1718 though in some cases they have been subjects of political disputes.¹⁹ However, with the exception of a recent Centers for Disease Control and Prevention study²⁰ and some data from hospitals that have achieved "Baby-Friendly" status, little is known about the prevalence of these practices in hospitals across the United States

Grizzard et al.²⁴ assessed Massachusetts hospitals and noted that hospitals with high or moderately high levels of implementation significantly differed from hospitals with partial implementation with respect to pacifier usage (P=.002) and postpartum breastfeeding Objectives. We sought to assess whether breastfeeding-related hospital practices reported by mothers were associated with achievement of their intentions to exclusively breastfeed.

Methods. We used data from Listening to Mothers II, a nationally representative survey of 1573 mothers who had given birth in a hospital to a singleton in 2005. Mothers were asked retrospectively about their breastfeeding intention, infant feeding at 1 week, and 7 hospital practices.

Results. Primiparas reported a substantial difference between their intention to exclusively breastfeed (70%) and this practice at 1 week (50%). They also reported hospital practices that conflicted with the Baby-Friendly Ten Steps, including supplementation (49%) and pacifier use (45%). Primiparas who delivered in hospitals that practiced 6 or 7 of the steps were 6 times more likely for achieve their intention to exclusively breastfeed than were those in hospitals that practiced none or 1 of the steps. Mothers who reported supplemental feedings for their infant were less likely to achieve their intention to exclusively breastfeed; primiparas (adjusted odds ratio [AOR]=4.4; 95% confidence interval [CI]=2.1, 9.3); multiparas (AOR=8.8; 95% CI=4.4, 17.6).

Conclusions. Hospitals should implement policies that support breastfeeding with particular attention to eliminating supplementation of healthy newborns. (Am J Public Health. 2009;99:929–935. doi:10.2105/AJPH.2008.135236)

instruction (P<.001). Acceptance of free formula was significantly associated (P=0.3) with overall Ten Steps implementation. Although several international studies have concluded that even some progress toward "Baby-Friendly Hospital" status is associated with increases in breastfeeding available US data²⁰ on the achievement of steps in place are limited.

The goal of our study was to provide clinical and hospital administrative decision-makers with the information they need to institute policies and practices that enhance a woman's ability to achieve her intended duration of exclusive breastfeeding. We examined the results of a national survey that asked mothers about their feeding intentions "as [they] came to the end of [their] pregnancy" and their actual feeding patterns 1 week after the birth. We also asked mothers to report on their experiences with hospital practices known to influence breastfeeding success. Based on past research, we expected that hospital practices would be related to the fulfillment of a plan to exclusively breastfeed

METHODS

We present results from a 2006 national survey of 1573 women aged 18 to 45 years who had given birth in 2005 in a hospital to a singleton, still-living infant. The survey, entitled Listening to Mothers II,22 was developed through a collaboration between Childbirth Connection and the Boston University School of Public Health and was conducted by Harris Interactive. The standard telephone sampling approach of random-digit dialing, though advantageous for reaching a diverse population, is not feasible for a national survey of new mothers because the number of US births (4 million annually) is small in proportion to the number of households (111 million); therefore, respondents were drawn from 2 other sources.

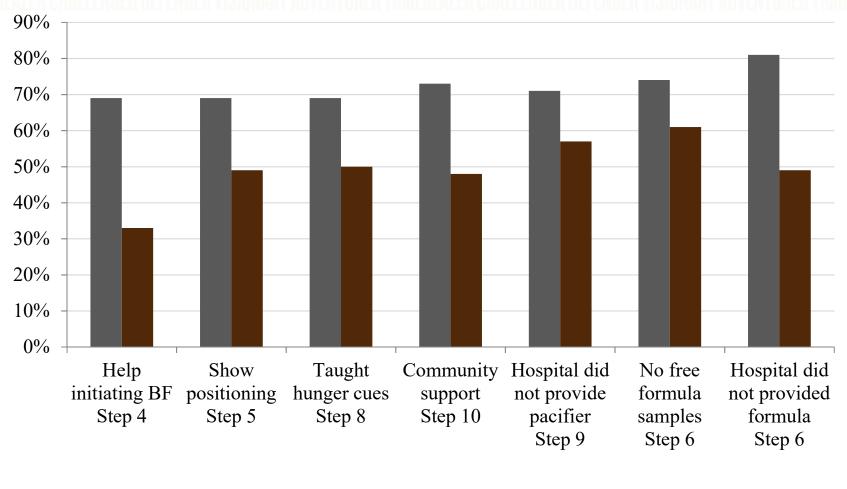
The Internet portion of the sample was drawn from Harris Interactive's ongoing Internet panel of more than 5 million individuals who agree to periodically participate in their surveys. To ensure a more representative overall sample, a telephone sample was also drawn. Respondents in this sample were

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May 2009, Vol 99, No. 5 | American Journal of Public Health

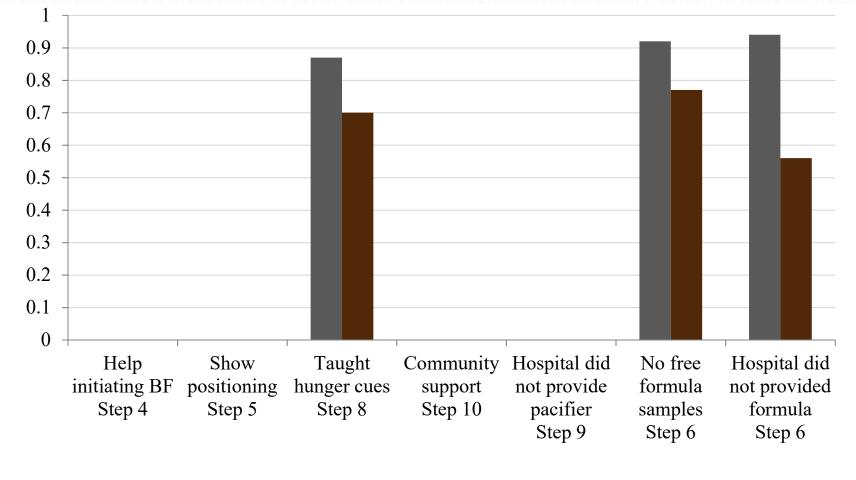
% Exclusive Breastfeeding at 1 Week: 1st time mothers



Baby Friendly Practice
Not Baby Friendly Practice



% Exclusive Breastfeeding at 1 Week: Multiparas



Baby Friendly Practice

Not Baby Friendly Practice



Do the Ten Steps make a difference?

Original Research

The Extent that Noncompliance with the Ten Steps to Successful Breastfeeding Influences Breastfeeding Duration

Journal of Human Lactation 29(1) 59–70 © The Author(s) 2013 Reprints and permission: http://www. sagepub.com/journalsPermissions.nav DOI: 10.1177/0890334412464695 http://jhl.sagepub.com

International Lactation Consultant Association

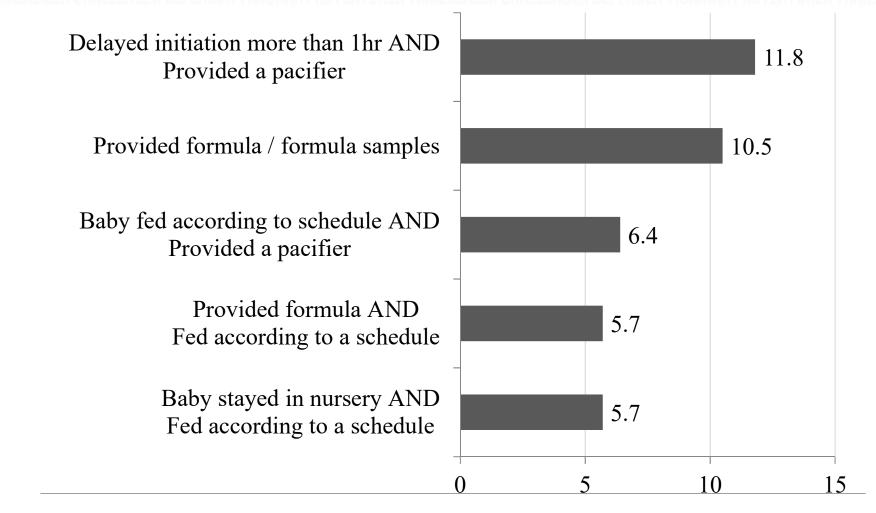
Nathan Christopher Nickel, MPH, PhD¹, Miriam H. Labbok, MD, MPH, IBCLC², Michael G. Hudgens, MS, PhD³, and Julie L. Daniels, MPH, PhD⁴

For Example:

Is feeding an infant according to a schedule associated with reduced duration of breastfeeding compared with feeding an infant according to hunger cues (Step 8)?



Reduced Duration in Weeks





Do the Ten Steps make a difference?

- Taken together, the Ten Steps are a set of maternity practices that protect, promote, and support breastfeeding.
- Failing to provide the care outlined in the Steps creates barriers for the mother-infant dyad re: breastfeeding
- Individually, and in combinations of two, the Steps have a sustained impact on breastfeeding.



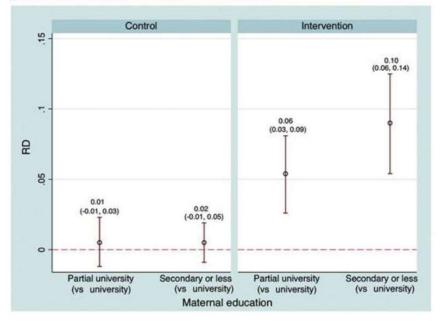
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Do population-based interventions widen or narrow socioeconomic inequalities? The case of breastfeeding promotion @

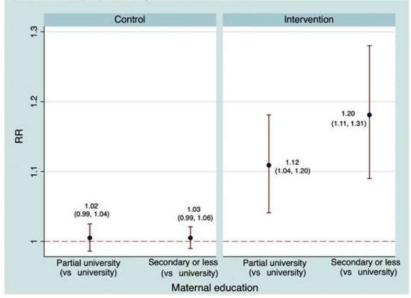
Seungmi Yang 🖾, Robert W Platt, Mourad Dahhou, Michael S Kramer

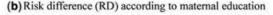
International Journal of Epidemiology, Volume 43, Issue 4, 1 August 2014, Pages 1284–1292, https://doi.org/10.1093/ije/dyu051 Published: 15 March 2014 Article history ▼

(b) Risk difference (RD) according to maternal education











Strategies to Address Inequities

"Shift and Squish"

- SHIFT: Universal Programs
- SQUISH: Targeted Programs







IMPLEMENTING THE STEPS TO REDUCE INEQUITIES











Overview of CHAMPS

• Team:

PI: Anne Merewood, PhD

Kimarie Bugg, MSN, MPH Laura Burnham, MPH Kirsten Krane, MS-MPH Nathan Nickel, MPH, PhD Sarah Broom, MD Cathy Carothers, BLA, IBCLC Rebecca Snow Hartnett, MPH Roger Edwards, ScD Tawanda Logan-Hurt, BSW, CLC Felisha Floyd, BS, CLC, IBCLC Camie Goldhammer, MSW, IBCLC Apexa Patel, MSW, CLC Emily Taylor MPH Andrea Serano, CLC< IBCLC Renee Boynton-Jarett, MD, ScD Lori Feldman-Winter, MD, MPH

Overview of CHAMPS

 Goal was to improve maternal child practices guided by the Ten Steps to Successful Breastfeeding and reduce racial disparities





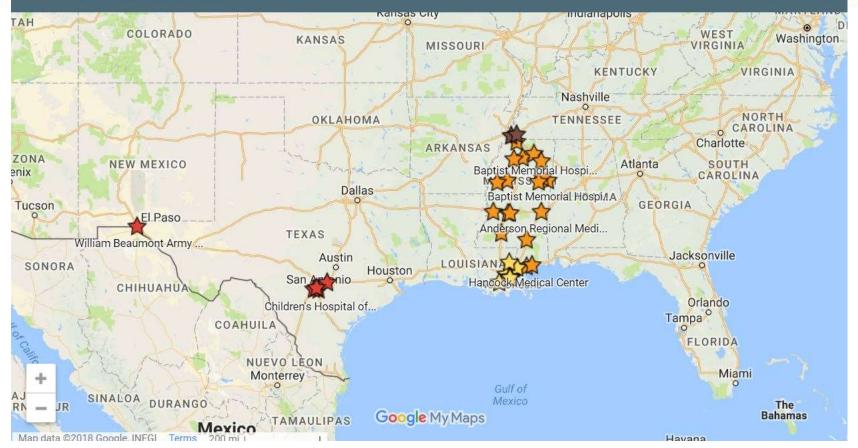
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CHAMPS South Hospitals 🖈

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Overview of CHAMPS

 Goal was to improve maternal child practices guided by the Ten Steps to Successful Breastfeeding and reduce racial disparities

 Worked intensively in the community to improve support



Overview of CHAMPS

Quality Improvement Model

Teams from hospitals brought together on regular basis





Keynote Speaker: Camara Phyllis Jones, MD, MPH, PhD

A conference for all Mississippi CHAMPS hospitals and their community partners to learn, collaborate, network, and share experiences. Includes "Train-the-Trainer" sessions on the CHAMPS 4-hour competency training for nursing staff.

Free to CHAMPS hospital teams and community partners.

Register online at: <u>https://mschampsconference.eventbrite.com</u> Questions? Email the CHAMPS Team at <u>CHAMPSbreastfeed@gmail.com</u>

Funded by: The W.K. Kellogg Foundation & The Bower Foundation **Organized by**: Communities and Hospitals Advancing Maternity Practices (CHAMPS), a program of the Center of Health Equity, Education, & Research (CHEER)



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In God we trust ...

All others must bring data.

W. Edwards Deming



Overview of CHAMPS

Quality Improvement Model

- Teams from hospitals brought together on regular basis
- Technical coaches work with hospitals to train around quality improvement
- Designed and implemented a data collection tool
 - Clinical Practices
 - Breastfeeding Initiation
 - Exclusive Breastfeeding at Discharge



Data Collection

- Chart audits of records
- Infant feeding indicators
 - Initiation within an hour
 - Formula supplementation
 - Exclusive formula
- Baby Friendly Practices
- All stratified by race / ethnicity



ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY ADVENTURER TRAILBLAZER CHALLENGER VISIONARY ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY PDSAs in Brief

- 1. Develop a change that will result in improvement
- 2. Test the change idea on small scales
- 3. Implement only when:
 - There is a shared high degree of belief that the change will lead to the desired improvement.
 - There is a shared level of commitment to implementing the change
 - There is **minimal concern** about the cost of failure.



PDSAs: Plan One!

- 1. Gather at least you and one person.
- 2. Bring a blank copy of your PDSA form.
- 3. Decide on the first change you think might lead to an improvement.
- 4. Use the form to make a plan.

PDSA Cycle #	Dates: beginnin	ne	ending	Cycle to: Develop / Test / Implement
P Plan A Act	D Do S Study		Being Tested	-
	ances transformet			
Do: Carry out the plan Document proble Begin analysis of	ms and unexpected	observation	ษ	
Study Complete the ana Compare data to Summarize what	predictions			
Act What changes are Plan for next cycl	e to be made? Adopt e	t, adapt, or a	abandon the cha	ange?

Modified from: The Improvement Guide 2nd Ed. Langley GJ, Moen RD, Nolan KM, Nolan TW, Norman CL, Provost LP, page 447: Jossey-Bass, San Francisco, 2009.

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PDSAs: Do On

- 1. Carry out your plan.
- 2. Document problems & observations on your form right away.





PDSAs: Study One!

- Look back at the measures you thought will help you know whether your change was an improvement.
- 2. Summarize what was learned.





PDSAs: Acting On One

- 1. Decide what factors need to be changed for the next round; **or** decide how much to scale up if it was perfect.
- 2. Repeat the process until you are ready to implement (high belief, high commitment, low concern about cost of failure)

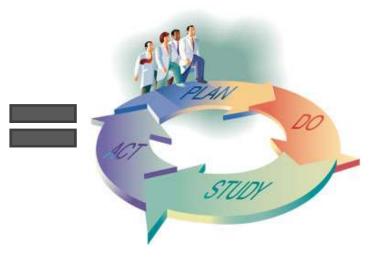




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	Change Being Tested:
	Develop a change. Reduce dyad separation due to newborn bath.
P D Plan Do A S Act Study	SMART Objective for this Cycle: Detail current procedure for one newborn bath this morning.
Plan Question(s) to answer for th Plan to carry out the cycle (4 Plan for data collection (4W Predictions for each questio	ws+H) 3. Were there unnecessary delays in the process? 4. How did family feel about process? 5. What does RN like / not like about current process? Final Observe Reflect after dvad reunification RN1 to
Do: Carry out the plan Document problems and un Begin analysis of the data	Observation. Significant delay due to newborn temperature drop, and current policy to use warmer rather return to mom for StS.
Study Complete the analysis of the Compare data to prediction Summarize what was learne	towels, etc.), 60m spent under warmer, until 2 normal temps recorded (took 30m to warm & next temp taken 30m later). Mom showered "glad & worried why it took so loop."
Act What changes are to be mad	ie? Adopt, adapt, or abandon the change?
"create	2 were surprised to see how long it actually took. RN1 wants to a cart for bathing in-room," but RN2 wants to observe 2 more to his is the norm. RNs agree to do 2 more, since census is low.

PDSAs: Example Cycle 1

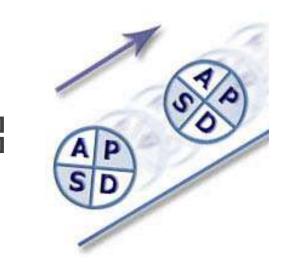




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	Change Being Tested:		
P D Plan Do	Develop a change. Reduce dyad separation due to newborn bath.		
AS	SMART Objective for this Cycle:		
Act Study	Detail current procedure for 2 more newborn baths this morning.		
Plan Question(s) to answer for this cycle Plan to carry out the cycle (4Ws + F	Were there unnecessary delays in the process?		
	Plan: Observe. Reflect after dyad reunification. RN2 to record discreet variables. RN1 to report in qualitative.		
Predictions for each question	Plan: Observe. Reflect after dyad reunification. RN2 to		
Plan for data collection (4Ws + H) Predictions for each question Do: Carry out the plan Document problems and unexpect Begin analysis of the data	Plan: Observe. Reflect after dyad reunification. RN2 to record discreet variables. RN1 to report in qualitative. Observation.		
Predictions for each question Do: Carry out the plan Document problems and unexpect Begin analysis of the data Study Complete the analysis of the data Compare data to predictions	Plan: Observe. Reflect after dyad reunification. RN2 to record discreet variables. RN1 to report in qualitative. Observation.		
Predictions for each question Do: Carry out the plan Document problems and unexpect Begin analysis of the data Study Complete the analysis of the data Compare data to predictions Summarize what was learned Act	Plan: Observe. Reflect after dyad reunification. RN2 to record discreet variables. RN1 to report in qualitative. Observation. ed observations Baby 1 required warmer, then showed signs of cold stress, and RN2 fed formula (to EBF baby). Mother upset: "He was fine when you took him out." Baby 2 went smoothly, but still took longer than predicted		

PDSAs: Example Cycle 2





PDSAs: Example PDSA Cyde # 3 11/10/10 DA incert 24 Dates: beginning ending Cycle to: Develop / Test / Implement Cycle 3 Change Being Tested: Reduce dyad separation due to newborn bath with "no-stop" transport and prepped bathing area. P D Plan Do

SMART Objective for this Cycle:

S

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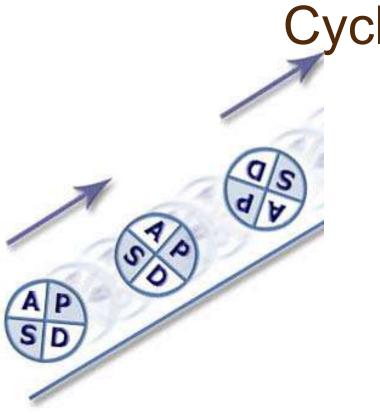
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Dec

Test whether "no-stop" transport and prepped bathing area in NBN will decrease duration of separation, improve patient satisfaction, decrease cold temps.

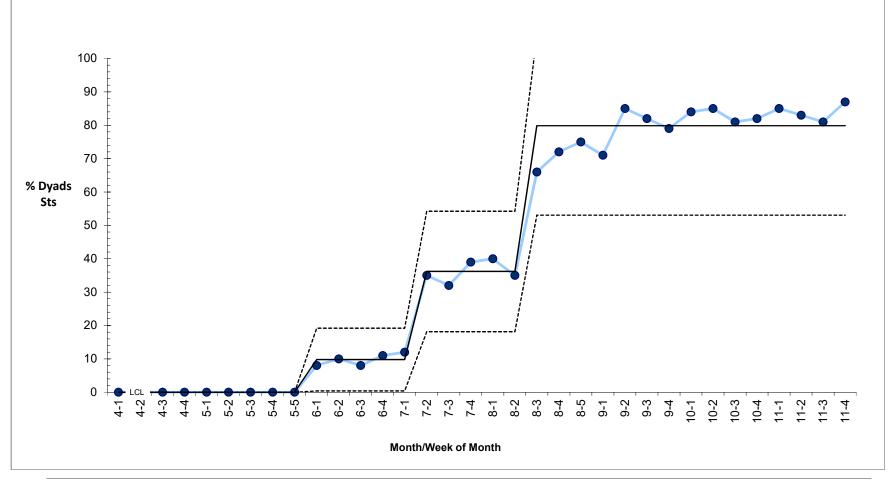
Plan	1. How much time is the dyad separated for bath?
Question(s) to answer for this cycle	2. What materials are needed to give the bath?
	3 Were there unnecessary delays in the process?
Plan to carry out the cycle (4Ws + H)	4. How did family feel about process?
Plan for data collection (4Ws + H)	 What does RN like / not like about current process? Plan: Prep. Observe. Reflect after dyad reunification.
Predictions for each question	RN2 to record discreet variables. RN1 to report in qualitative x3 to see how it is once "kinks are out."

Carry out the plan Document problems and unexpected observation: Begin analysis of the data		ed observations	Observation. Water warms up, and is cold by the time baby returns to NBN b/c of various delays (BFing, visitors, etc.). Having supplies as "bath kits" was positive.		
Study Complete the analy Compare data to pr Summarize what w	redictions	drying, diapen Mom 1: '1 wou Mom 2: '1 like	2m - transport; 3m - prep, 4m bathing, 4m ing and taking temp, 2m transport. Id like to do it in here so I can learn." choice; I rest while baby goes to spa." 't understand why we have to bathe him at all.		
Act What changes are t	to be made? Add	opt, adapt, or ab	andon the change?		
Plan for next cycle	should have	"no-stop polis	om should be considered AND bathing in NBN cy' and NBN bath kits prepped. RN2 will work est practice. RN1 will develop in-room test.		





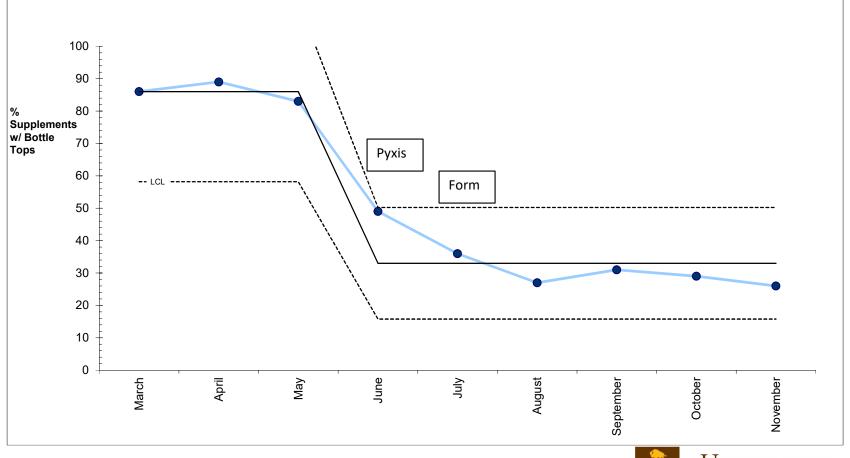
Step Four: Skin-to-Skin





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Step Eight: Bottle-Nipple Use





Keys to Success Gleaned and Lessons Learned

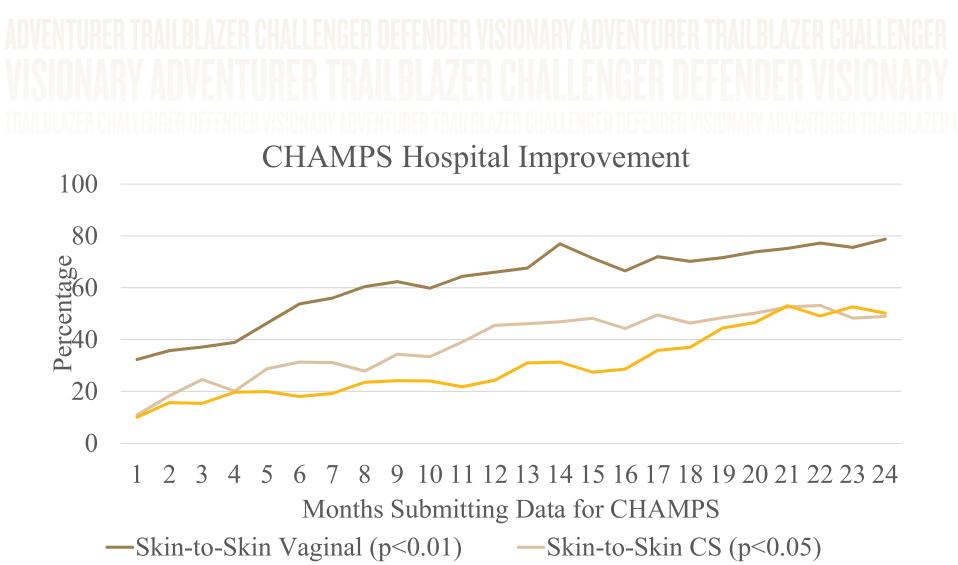
- Intervention needs to be context specific; cannot be rigid.
- Training resulted in improvements, but only so far.
- Coaching is paramount.
- Shadowing is a great way to learn about current practice, and test changes.
- Scale up happens quickly when nurses are excited about their own discoveries, and are eager to share.



Overview of CHAMPS

- After 3 years, 100% of hospitals had entered the Baby-Friendly Pathway
- As of today, 3 hospitals have been designated and many more are awaiting assessment and results

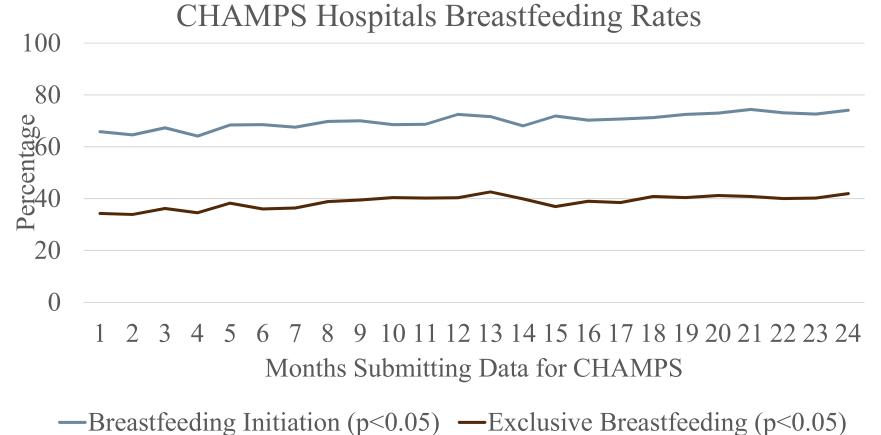




-Rooming In (p < 0.01)



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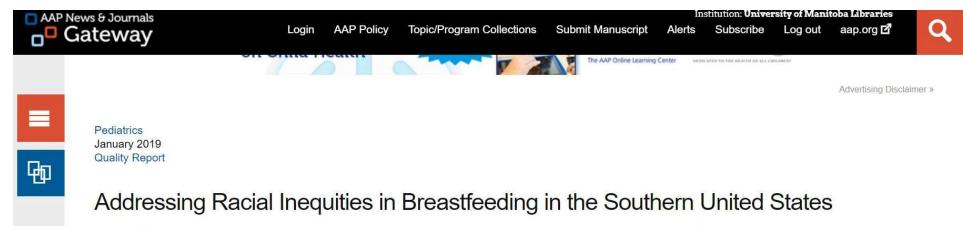


CHAMPS Conclusions

- CHAMPS hospitals significantly improved MCH practices
- This is one of few studies to demonstrate a significant
 impact of rooming in
- Impacts were greatest in minority populations
- Partnered with community development groups
- Baby Friendly Practices have strong benefits for marginalized populations



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Anne Merewood, Kimarie Bugg, Laura Burnham, Kirsten Krane, Nathan Nickel, Sarah Broom, Roger Edwards, Lori Feldman-Winter





Surveillance of Breastfeeding Duration

- Much of the hospital-based research focuses on breastfeeding initiation
- Few studies have access to routinely collected duration data
- Manitoba is piloting the development of total population breastfeeding duration data system





Manitoba Infant Feeding Database







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- Opportunistic data collection at routine vaccination visits
- Collect personal health identifiers to facilitate linkage with Manitoba Health Insurance Registry
- Final Destination: Population Health Research Data Repository at MCHP







ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY ADVENTURER TRAILBLAZER CHALLENGER Data Collection

Opportunistic data collection at routine vaccination visits

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		touching the lines, and fill in circles completely, usin Once complete, please fax to 204-948-3768
01. Please	enter TODAY's date:	DAY MONTH YEAR
02. What i	s your relationship to the baby:	O Mother O Father O Other caregiver
	poxes provided, please print baby's Health Registration Number:	
	boxes provided, please print baby's Personal Health Identification Number:	
	boxes provided, please print mother's Personal Health Identification Number:	
06. Please	enter baby's birth date:	DAY MONTH YEAR
	enter the first 3-characters of your acter postal code:	
08. Is your	baby a girl or a boy?	O Boy O Girl
	has your baby been fed? select all that apply.	O Breast milk O Formula O Other liquids (juice, cow's milk, goat's milk, tea, etc) O Solids / Other foods
10. Has yo	our baby ever had formula?	O Yes O No
	was your baby fed formula? select all that apply.	O In hospital O At home O Never
	any weeks old was your baby when st fed formula/other liquids/other food?	O Since birth weeks old O Not applicable
	any weeks old was your baby when mpletely stopped breastfeeding?	weeks O I am still breastfeeding O I have only formula fed

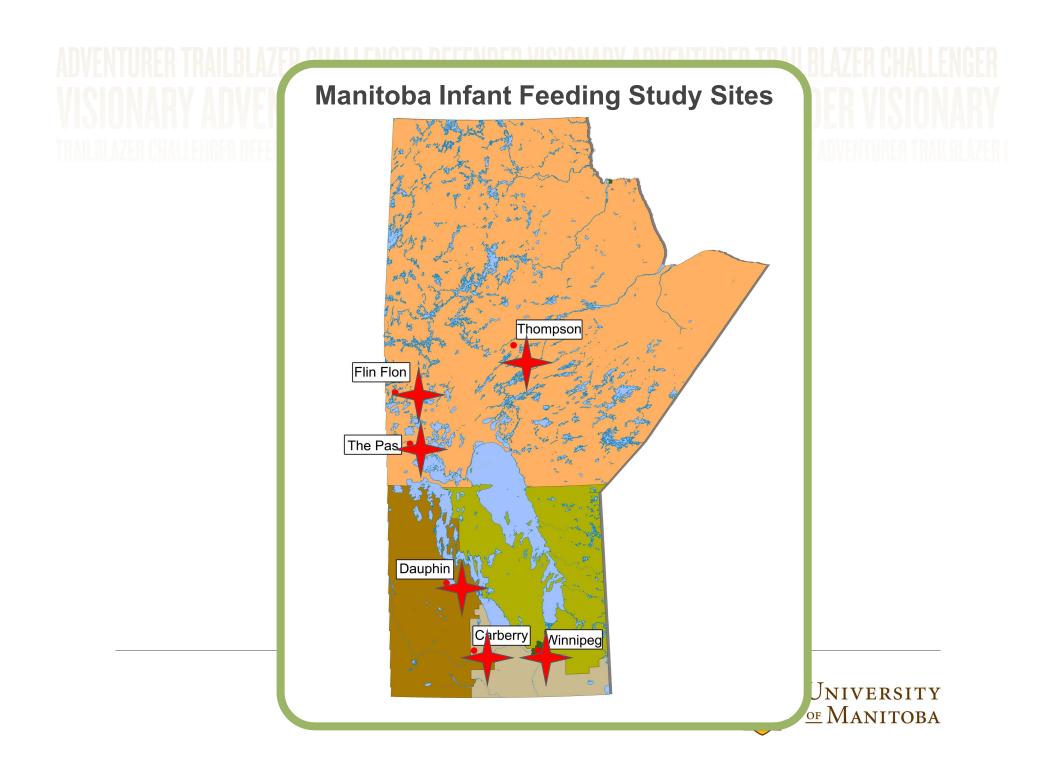
Infant Feeding Variables

- Age when infant was first introduced something other than human milk
- Age when infant stopped breastfeeding altogether
- Supplemented only in hospital exclusively breastfed after discharge
- Did not initiate during hospital stay initiated after discharge



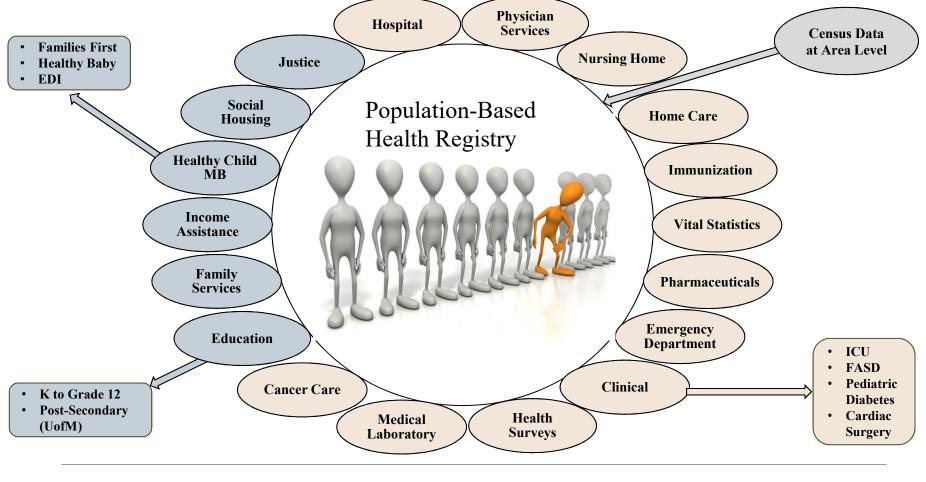






MCHP Houses the De-Identified

Manitoba Population Research Data Repository





Linked Data for Health Research

- Routinely collected information going back decades
- Total-population data allows us track health equity and marginalized populations
- Look at impact policies on health



ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY ADVENTURER TRAILBLAZER CHALLENGER VISIONARY ADVENTURER TRAILBLAZER CHALLENGER DEFENDER VISIONARY

Open Access

Protocol

BMJ Open Protocol for establishing an infant feeding database linkable with population-based administrative data: a prospective cohort study in Manitoba, Canada

Nathan Christopher Nickel,^{1,2} Lynne Warda,^{3,4} Leslie Kummer,⁵ Joanne Chateau,¹ Maureen Heaman,⁶ Chris Green,^{1,7} Alan Katz,^{1,2,8} Julia Paul,⁹ Carolyn Perchuk,⁷ Darlene Girard,⁷ Lorraine Larocque,¹⁰ Jennifer Emily Enns,^{1,2} Souradet Shaw,¹¹ The Manitoba Infant Feeding Database Development Team

To cite: Nickel NC, Warda L, Kummer L, *et al.* Protocol ABSTRACT Introduction Breast feeding is associated with many

Strengths and limitations of this study







Data in Repository

- 4,900 mother-infant dyads over 2 years' data collection
- We have a 98.2% data linkage rate
- Follow half of these for 6 months
- Can use to identify when supports are needed after hospital re: breastfeeding



Concluding Remarks

- Several interventions have supported breastfeeding dyads
- Need to measure what is happening with respect to inequities
- Target interventions to address structural determinants of inequities







