Maternity Practices in Infant Nutrition and Care In **North Carolina** — 2009 mPINC Survey

This report provides data from the 2009 mPINC survey for North Carolina. It describes specific opportunities to improve mother-baby care at hospitals and birth centers in North Carolina in order to more successfully meet national quality of care standards for perinatal care.



More information is at www.cdc.gov/mpinc

Breastfeeding is a Breastfeeding is associated with decreased risk for infant morbidity and mortality as well as **National Priority** maternal morbidity,¹ and provides optimal infant nutrition. *Healthy People 2020*² establishes breastfeeding initiation, continuation, and exclusivity as national priorities.

Breastfeeding Rates breastfeeding.⁴

Changes in Maternity practices in hospitals and birth centers can influence breastfeeding behaviors Maternity Care during a period critical to successful establishment of lactation.³ Abundant literature, including a Cochrane review, document that institutional changes in maternity care practices Practices Improve to make them more supportive of breastfeeding increase initiation and continuation of

Breastfeeding Support in North Carolina Facilities

Strengths

Nε

Documentation of Mothers' Feeding Decisions Staff at all (100%) facilities in North Carolina consistently ask about and record mothers' infant feeding decisions.	Standard documentation of infant feeding decisions is important to adequately support maternal choice.
Availability of Prenatal Breastfeeding Instruction Most facilities (94%) in North Carolina include breastfeeding education as a routine element of their prenatal classes.	Prenatal education about breastfeeding is important because it provides mothers with a better understanding of the benefits and requirements o breastfeeding, resulting in improved breastfeeding rates.
ed Improvements	
Appropriate Use of Breastfeeding Supplements Only 6% of facilities in North Carolina adhere to standard clinical practice guidelines against routine supplementation with formula, glucose water, or water.	The American Academy of Pediatrics (AAP) and the American College o Obstetricians and Gynecologists (ACOG) Guidelines for Perinatal Care recommend against routine supplementation because supplementation with formula and/or water makes infants more likely to receive formula at home and stop breastfeeding prematurely.
Inclusion of Model Breastfeeding Policy Elements Only 14% of facilities in North Carolina have	The ABM model breastfeeding policy elements are the result of extensive research on best practices to improve breastfeeding

Academy of Breastfeeding Medicine (ABM). characteristics such as ethnicity, income, and payer status. Upon delivery, the newborn should be placed skin-to-skin with the Initiation of Mother and Infant Skin-to-Skin Care mother and allowed uninterrupted time to initiate and establish Only 33% of facilities in North Carolina initiate skin-tobreastfeeding in order to improve infant health outcomes and reduce the skin care for at least 30 minutes upon delivery of the risk of impairment of the neonatal immune system from unnecessary newborn. non-breast milk feeds. Distribution of discharge packs contributes to premature breastfeeding discontinuation. The ACOG, AAP, American Public Health Association Protection of Patients from Formula Marketing Only 21% of facilities in North Carolina adhere to clinical (APHA), and the federal Government Accountability Office (GAO) all and public health recommendations against distributing identify this practice as inappropriate in medical environments and formula company discharge packs. recommend against it.

Every two years, CDC administers the national Maternity Practices in Infant Nutrition and Care (mPINC) survey to all hospitals and birth centers in the U.S. that provide maternity care.

Data from this survey can be used to establish evidence-based, breastfeeding-supportive maternity practices as standards of care in hospitals and birth centers across the US. Improved care will help meet *Healthy People 2020* breastfeeding objectives and will help improve maternal and child health nationwide.

National Center for Chronic Disease Prevention and Health Promotion



North Carolina Summary — 2009 mPINC Survey

Survey At each facility, the person who is the most knowledgeable about the facility's **Method** maternity practices related to healthy newborn feeding and care completes the CDC mPINC survey.

Response 78% of the 88 eligible facilities in North Carolina responded to the 2009 mPINC Rate Survey. Each participating facility received its facility-specific mPINC benchmarking report in March 2011.

North Carolina's

Composite Rank[†]

33

(out of 52)

North Carolina's Composite Quality Practice Score



(out of 100)

mPINC Dimension of Care	NC Quality Practice Subscore*	Ideal Response to mPINC Survey Question	Percent of NC Facilities with Ideal Response	
Labor and Delivery Care		Initial skin-to-skin contact is ≥30 min w/in 1 hour (vaginal births)	33	38
		Initial skin-to-skin contact is ≥30 min w/in 2 hours (cesarean births)	25	40
	55	Initial breastfeeding opportunity is w/in 1 hour (vaginal births)	43	41
		Initial breastfeeding opportunity is w/in 2 hours (cesarean births)	37	32
		Routine procedures are performed skin-to-skin	16	31
Feeding of Breastfed Infants	70	Initial feeding is breast milk (vaginal births)	69	35
		Initial feeding is breast milk (cesarean births)	61	29
		Supplemental feedings to breastfeeding infants are rare	6	48
		Water and glucose water are not used	64	39
Breastfeeding Assistance		Infant feeding decision is documented in the patient chart	100	-
		Staff provide breastfeeding advice & instructions to patients	88	29
		Staff teach breastfeeding cues to patients	79	36
	80	Staff teach patients not to limit suckling time	38	34
		Staff directly observe & assess breastfeeding	83	26
		Staff use a standard feeding assessment tool	59	27
		Staff rarely provide pacifiers to breastfeeding infants	32	23
Contact Between Mother and Infant	68	Mother-infant pairs are not separated for postpartum transition	55	28
		Mother-infant pairs room-in at night	66	33
		Mother-infant pairs are not separated during the hospital stay	32	22
		Infant procedures, assessment, and care are in the patient room	3	19
		Non-rooming-in infants are brought to mothers at night for feeding	68	47
Facility Discharge Care	34	Staff provide appropriate discharge planning (referrals & other multi-modal support)	26	25
		Discharge packs containing infant formula samples and marketing products are not given to breastfeeding patients	21	36
Staff Training		New staff receive appropriate breastfeeding education	8	21
	56	Current staff receive appropriate breastfeeding education	12	29
	50	Staff received breastfeeding education in the past year	43	25
		Assessment of staff competency in breastfeeding management & support is at least annual	62	10
Structural & Organizational Aspects of Care Delivery		Breastfeeding policy includes all 10 model policy elements	14	19
		Breastfeeding policy is effectively communicated	68	35
	68	Facility documents infant feeding rates in patient population	67	23
		Facility provides breastfeeding support to employees	74	10
		Facility does not receive infant formula free of charge	3	38
		Breastfeeding is included in prenatal patient education	94	-
		Facility has a designated staff member responsible for coordination of lactation care	73	26

* Quality Practice scores range from 0 to 100 for each question, dimenstion of care, facility, and state. The highest, best possible score for each is 100. Each facility and state's "Composite Quality Practice Score" is made up of subscores for practices in each of 7 dimensions of care.

† Ranks range from 1 to 52, with 1 being the highest rank. In case of a tie, both are given the same rank

- State ranks are not shown for survey questions with 90% or more facilities reporting ideal responses.

References

Improvement is Needed in **Maternity Care Practices** and Policies in North Carolina.

> Many opportunities exist to protect, promote, and support breastfeeding mothers and infants in North Carolina.

Take action on this critical need—consider the following:

- Examine North Carolina regulations for maternity facilities and evaluate their evidence base; revise if necessary.
- Sponsor a North Carolina-wide summit of key decision-making staff at maternity facilities to highlight the importance of evidence-based practices for breastfeeding.
- Pay for hospital staff across North Carolina to participate in 18-hour training courses in breastfeeding.
- Establish links among maternity facilities and community breastfeeding support networks in North Carolina.
- Identify and implement programs within hospital settings-choose one widespread practice and adjust it to be evidence-based and supportive of breastfeeding.
- Integrate maternity care into related hospital-wide Quality Improvement efforts across North Carolina.
- Promote North Carolina-wide utilization of the Joint **Commission's Perinatal Care** Core Measure Set including exclusive breastfeeding at discharge in hospital data collection.

Questions about the mPINC survey?

Information about the mPINC survey, benchmark reports, scoring methods, and complete references are available at: www.cdc.gov/mpinc

For more information:

Division of Nutrition, Physical Activity, and Obesity Centers for Disease Control and Prevention Atlanta, GA USA April 2011

¹Ip S, Chung M, Raman G, et al. Breastfeeding and maternal and infant health outcomes in developed countries. Rockville, MD: US Dept of Health and Human Services, Agency for Healthcare Research and Quality; 2007. ²US Dept of Health and Human Services. Healthy People 2020 Summary of Objectives: Maternal, Infant, and Child Health. Available at http://www.healthypeople.gov/2020/topicsobjectives2020/pdfs/MaternalChildHealth.pdf ³DiGirolamo AM, Grummer-Strawn LM, Fein S. Effect of maternity care practices on breastfeeding. Pediatrics 2008;122, Supp 2:S43-9.

⁴ Fairbank L, O'Meara S, Renfrew MJ, Woolridge M, Snowden AJ, Lister-Sharp D. A systematic review to evaluate the effectiveness of interventions to promote the initiation of breastfeeding. Health Technology Assessment 2000;4:1-171.