Maternity Practices in Infant Nutrition and Care in North Carolina — 2011 mPINC Survey

This report provides data from the 2011 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/mpino

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 Practices Improve by make them more supportive of breastfeeding increase initiation and continuation of

Breastfeeding Support in North Carolina Facilities

Strengths

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.	is important to	
Availability of Prenatal Breastfeeding Instruction Most facilities (96%) 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 of breastfeeding, resulting in improved breastfeeding rates.		

Needed Improvements

3	Appropriate Use of Breastfeeding Supplements Only 10% 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 of 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.
3	Inclusion of Model Breastfeeding Policy Elements Only 16% of facilities in North Carolina have comprehensive breastfeeding policies including all model breastfeeding policy components recommended by the Academy of Breastfeeding Medicine (ABM).	The ABM model breastfeeding policy elements are the result of extensive research on best practices to improve breastfeeding outcomes. Facility policies determine the nature of care that is available to patients. Facilities with comprehensive policies consistently have the highest rates of exclusive breastfeeding, regardless of patient population characteristics such as ethnicity, income, and payer status.
]	Initiation of Mother and Infant Skin-to-Skin Care Only 44% of facilities in North Carolina initiate skin-to- skin care for at least 30 minutes upon delivery of the newborn.	Upon delivery, the newborn should be placed skin-to-skin with the mother and allowed uninterrupted time to initiate and establish breastfeeding in order to improve infant health outcomes and reduce the risk of impairment of the neonatal immune system from unnecessary non-breast milk feeds.
	Provision of Hospital Discharge Planning Support Only 22% of facilities in North Carolina provide hospital discharge care including a phone call to the patient's home, opportunity for follow-up visit, and referral to community breastfeeding support.	The American Academy of Pediatrics (AAP) clinical practice guidelines recommend examination of the newborn by a qualified health care professional within 48 hours of hospital discharge in order to assess breastfeeding. Ensuring post discharge ambulatory support improves breastfeeding outcomes.

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 — 2011 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 89% of the 88 eligible facilities in North Carolina responded to the 2011 mPINC Rate Survey. Each participating facility received its facility-specific mPINC benchmarking report in October 2012.

North Carolina's

Composite Rank[†]

31

(out of 53)

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	NC Item Rank [†]
		Initial skin-to-skin contact is ≥30 min w/in 1 hour (vaginal births)	44	40
		Initial skin-to-skin contact is ≥30 min w/in 2 hours (cesarean births)	39	30
Labor and Delivery Care	63	Initial breastfeeding opportunity is w/in 1 hour (vaginal births)	42	49
		Initial breastfeeding opportunity is w/in 2 hours (cesarean births)	36	46
		Routine procedures are performed skin-to-skin	15	44
	75	Initial feeding is breast milk (vaginal births)	70	36
Feeding of Breastfed		Initial feeding is breast milk (cesarean births)	57	43
Infants		Supplemental feedings to breastfeeding infants are rare	10	48
		Water and glucose water are not used	76	38
		Infant feeding decision is documented in the patient chart	100	
		Staff provide breastfeeding advice & instructions to patients	91	
		Staff teach breastfeeding cues to patients	86	24
Breastfeeding Assistance	84	Staff teach patients not to limit suckling time	54	17
		Staff directly observe & assess breastfeeding	83	31
		Staff use a standard feeding assessment tool	63	34
		Staff rarely provide pacifiers to breastfeeding infants	38	27
	71	Mother-infant pairs are not separated for postpartum transition	60	29
Contact		Mother-infant pairs room-in at night	76	26
Between Mother and		Mother-infant pairs are not separated during the hospital stay	31	29
Infant		Infant procedures, assessment, and care are in the patient room	2	25
		Non-rooming-in infants are brought to mothers at night for feeding	77	39
Facility	43	Staff provide appropriate discharge planning (referrals & other multi-modal support)	22	37
Discharge Care		Discharge packs containing infant formula samples and marketing products are not given to breastfeeding patients	40	29
	63	New staff receive appropriate breastfeeding education	11	20
Staff		Current staff receive appropriate breastfeeding education	25	15
Training		Staff received breastfeeding education in the past year	58	14
		Assessment of staff competency in breastfeeding management & support is at least annual	65	15
	74	Breastfeeding policy includes all 10 model policy elements	16	28
		Breastfeeding policy is effectively communicated	87	8
Structural &		Facility documents infant feeding rates in patient population	76	15
Organizational Aspects of		Facility provides breastfeeding support to employees	73	22
Care Delivery		Facility does not receive infant formula free of charge	15	23
		Breastfeeding is included in prenatal patient education	96	
		Facility has a designated staff member responsible for coordination of lactation care	71	26

* Quality Practice scores range from o 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.

Potential opportunities:

- Examine North Carolina regulations for maternity facilities and evaluate their evidence base.
- Sponsor a North Carolina-wide V summit of key decision-making staff at maternity facilities to highlight the importance of evidence-based practices for breastfeeding.
- Encourage and support hospital staff across North Carolina to be trained in providing care that supports mothers to breastfeed.
- Establish links among maternity facilities and community breastfeeding support networks in North Carolina.
- Implement evidence-based practices in medical care settings across North Carolina that support mothers' efforts to breastfeed.
- Integrate maternity care into related hospital-wide Quality Improvement efforts across North Carolina.
- Promote utilization of the Joint Commission's Perinatal Care Core Measure Set including exclusive breast milk feeding at hospital discharge in North Carolina hospital data collection systems.

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 February 2013

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.

⁴Fairbank 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.