

Maternity Practices in Infant Nutrition and Care in Connecticut

In 2007, CDC administered the first national **Maternity Practices in Infant Nutrition and Care** (“mPINC”) survey. All hospitals and birth centers in the U.S. that provide maternity care were invited to participate. This report describes specific opportunities to improve mother-baby care at hospitals and birth centers in Connecticut in order to more successfully meet national quality of care standards for perinatal care.



For more information about the mPINC survey, visit www.cdc.gov/mpinc

Changes in Maternity Care Practices Improve Breastfeeding Rates

Breastfeeding provides optimal nutrition for infants and is associated with decreased risk for infant morbidity and mortality as well as maternal morbidity.¹ Maternity practices in hospitals and birth centers can influence breastfeeding behaviors during a period critical to successful establishment of lactation.² The literature, including a Cochrane review, found that institutional changes in maternity care practices to make them more supportive of breastfeeding increased initiation and duration of breastfeeding.³

Strengths in Breastfeeding Support in Connecticut Facilities

	Documentation of Mothers' Feeding Decisions Staff at all (100%) facilities in Connecticut 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 Staff at all (100%) facilities in Connecticut 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 in Connecticut Facilities

	Appropriate Use of Breastfeeding Supplements Only 14% of facilities in Connecticut 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.
	Inclusion of Model Breastfeeding Policy Elements Only 9% of facilities in Connecticut 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.
	Provision of Hospital Discharge Planning Support Only 9% of facilities in Connecticut 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.
	Use of Combined Mother/Baby Postpartum Care Only 6% of facilities in Connecticut report that most healthy full-term infants remain with their mothers for at least 23 hours per day throughout the hospital stay.	Mother-infant contact during the hospital stay helps establish breastfeeding and maintain infant weight, temperature, and health. Rooming-in increases breastfeeding learning opportunities and duration and quality of maternal sleep, and reduces supplemental feeds.

Breastfeeding is a National Priority

Breastfeeding protects mothers' and infants' health.¹ *Healthy People 2010*⁴ includes breastfeeding as a national priority and it is recommended by a number of health professional organizations.⁵

Establishing evidence-based, breastfeeding-supportive maternity practices as standards of care in US hospitals and birth centers will help meet *Healthy People 2010* breastfeeding objectives and will help improve maternal and child health nationwide.



The CDC mPINC Survey

The CDC mPINC survey was mailed to all US maternity facilities, with the request that it be completed by the person most knowledgeable about the facility's maternity practices related to infant feeding and care.

77% of the 30 eligible hospitals and birth centers in Connecticut responded to the 2007 CDC mPINC survey.

Each participating facility received its facility-specific benchmark report in October 2008.

For more information about the mPINC survey, visit www.cdc.gov/mpinc

Evidence-based maternity care supports mothers' decisions and increases the chances that mothers will meet their personal breastfeeding goals.

Results of the 2007 CDC mPINC Survey: Connecticut

Connecticut Composite Quality Practice Score*: 70

Connecticut State Rank†: 10

mPINC Dimension of Care	Ideal Response to mPINC Survey Question	Percent of Facilities with Ideal Response‡	CT Rank†	CT Subscale Score* (out of 100)
Labor and Delivery Care	Initial skin-to-skin contact is ≥30 min w/in 1 hour (vaginal births)	65	7	73
	Initial skin-to-skin contact is ≥30 min w/in 2 hours (cesarean births)	55	5	
	Initial breastfeeding opportunity is w/in 1 hour (vaginal births)	64	6	
	Initial breastfeeding opportunity is w/in 2 hours (cesarean births)	53	9	
	Routine procedures are performed skin-to-skin	14	30	
Feeding of Breastfed Infants	Initial feeding is breast milk (vaginal births)	91	-	92
	Initial feeding is breast milk (cesarean births)	90	-	
	Supplemental feedings to breastfeeding infants are rare	14	35	
	Water and glucose water are not used	100	-	
Breastfeeding Assistance	Infant feeding decision is documented in the patient chart	100	-	84
	Staff provide breastfeeding advice & instructions to patients	95	-	
	Staff teach breastfeeding cues to patients	86	10	
	Staff teach patients not to limit suckling time	67	4	
	Staff directly observe & assess breastfeeding	95	-	
	Staff use a standard feeding assessment tool	64	17	
	Staff rarely provide pacifiers to breastfeeding infants	32	16	
Contact Between Mother and Infant	Mother-infant pairs are not separated for postpartum transition	68	13	72
	Mother-infant pairs room-in at night	67	26	
	Mother-infant pairs are not separated during the hospital stay	6	49	
	Infant procedures, assessment, and care are in the patient room	5	20	
	Non-rooming-in infants are brought to mothers at night for feeding	86	13	
Facility Discharge Care	Staff provide appropriate discharge planning (referrals & other multi-modal support)	9	46	31
	Discharge packs containing infant formula samples and marketing products are not given to breastfeeding patients	19	30	
Staff Training	New staff receive appropriate breastfeeding education	14	5	66
	Current staff receive appropriate breastfeeding education	30	15	
	Staff received breastfeeding education in the past year	59	9	
	Assessment of staff competency in breastfeeding management & support is at least annual	68	4	
Structural & Organizational Aspects of Care Delivery	Breastfeeding policy includes all 10 model policy elements	9	30	74
	Breastfeeding policy is effectively communicated	86	14	
	Facility documents infant feeding rates in patient population	64	13	
	Facility provides breastfeeding support to employees	77	5	
	Facility does not receive infant formula free of charge	14	13	
	Breastfeeding is included in prenatal patient education	100	-	
Facility has a designated staff member responsible for coordination of lactation care	77	13		

Improvement is Needed in Maternity Care Practices and Policies in Connecticut

Many opportunities exist in Connecticut to protect, promote, and support breastfeeding mothers and infants. To take action on this critical need, consider the following:

Examine Connecticut regulations for maternity facilities and evaluate their evidence base; revise if necessary.

Sponsor a Connecticut-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 Connecticut to participate in 18-hour training courses in breastfeeding.

Establish links among maternity facilities and community breastfeeding support networks in Connecticut.

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 Quality Improvement efforts including:

- Consistent delivery of optimal care
- Improving patient flow
- Improving patient experience & loyalty
- Engaging physicians in a shared quality agenda
- Increasing staff efficiency
- Optimizing hospital-to-home transitions

Develop a plan to ensure adherence to the Joint Commission's recently revised (July 2009) Perinatal Care Core Measure Set to include exclusive breastfeeding at discharge in hospital data collection starting with April 1, 2010, discharges.

* Facility practices in 7 dimensions of care ("subscales") contribute to the overall "Composite Quality Practice Score." Possible item, subscale, and overall scores range from 0 to 100, with 100 being the highest, best possible score.

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

‡ Calculation excludes facilities' responses that indicate prevalence is "unknown" for the practice measured in a given item.

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

References

- 1 Ip 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.
- 2 DiGirolamo AM, Grummer-Strawn LM, Fein S. Maternity care practices: implications for breastfeeding. Birth 2001;28:94-100.
- 3 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.
- 4 US Dept of Health and Human Services. Healthy People 2010 midcourse review. Washington, DC: US Dept of Health and Human Services; 2005. Available at <http://www.healthypeople.gov/data/midcourse>.
- 5 Organizations including but not limited to: National Quality Forum; American Academy of Pediatrics; American Association of Family Physicians; American College of Obstetricians and Gynecologists; Association of Women's Health, Obstetric, and Neonatal Nurses; American College of Nurse-Midwives; Academy of Breastfeeding Medicine; American Public Health Association; World Health Organization.

Questions about the mPINC survey?

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

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