Maternity Practices in Infant Nutrition and Care in Illinois

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 Illinois 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 Illinois Facilities		
	Documentation of Mothers' Feeding Decisions Staff at 99% of facilities in Illinois 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 96% of facilities in Illinois 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 Illinois Facilities		
	Appropriate Use of Breastfeeding Supplements Only I1% of facilities in Illinois 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 11% of facilities in Illinois 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 28% of facilities in Illinois 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.
	Protection of Patients from Formula Marketing Only 16 % of facilities in Illinois adhere to clinical and public health recommendations against distributing formula company discharge packs.	Distribution of discharge packs contributes to premature breastfeeding discontinuation. The ACOG, AAP, American Public Health Association (APHA), and the federal Government Accountability Office (GAO) all identify this practice as inappropriate in medical environments and recommend against it.

Breastfeeding is a National Priority

Breastfeeding protects mothers' and infants' health.¹ Healthy People 2010⁴ 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.



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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.

86% of the 127 eligible hospitals and birth centers in Illinois 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**

Results of the 2007 CDC mPINC Survey: Illinois

Illinois Composite Quality Practice Score*: 60

Illinois State Rank[†]: 35 Percent of IL mPINC **Facilities** Subscale Dimension with Ideal IL Score* Rank[†] of Care Ideal Response to mPINC Survey Question **Response**[‡] (out of 100) Initial skin-to-skin contact is ≥30 min w/in 1 hour (vaginal births) 28 46 Initial skin-to-skin contact is \geq 30 min w/in 2 hours (cesarean births) 40 20 Labor and Initial breastfeeding opportunity is w/in I hour (vaginal births) 35 38 48 Delivery Care 32 Initial breastfeeding opportunity is w/in 2 hours (cesarean births) 32 Routine procedures are performed skin-to-skin 43 6 Initial feeding is breast milk (vaginal births) 63 36 Feeding of Initial feeding is breast milk (cesarean births) 51 36 Breastfed 74 42 Supplemental feedings to breastfeeding infants are rare 11 Infants Water and glucose water are not used 70 26 99 Infant feeding decision is documented in the patient chart Staff provide breastfeeding advice & instructions to patients 88 25 Staff teach breastfeeding cues to patients 83 14 Breastfeeding Staff teach patients not to limit suckling time 32 32 78 Assistance Staff directly observe & assess breastfeeding 79 35 Staff use a standard feeding assessment tool 54 30 Staff rarely provide pacifiers to breastfeeding infants 19 33 Mother-infant pairs are not separated for postpartum transition 46 28 Mother-infant pairs room-in at night Contact 60 34 Between Mother-infant pairs are not separated during the hospital stay 29 17 64 Mother and Infant procedures, assessment, and care are in the patient room Infant 2 29 Non-rooming-in infants are brought to mothers at night for feeding 71 33 Staff provide appropriate discharge planning 27 22 Facility (referrals & other multi-modal support) 35 Discharge Discharge packs containing infant formula samples and marketing Care 16 35 products are not given to breastfeeding patients New staff receive appropriate breastfeeding education 5 25 23 Current staff receive appropriate breastfeeding education 36 Staff Training 54 Staff received breastfeeding education in the past year 49 12 Assessment of staff competency in breastfeeding management & 48 20 support is at least annual 21 Breastfeeding policy includes all 10 model policy elements 11 Breastfeeding policy is effectively communicated 83 18 Facility documents infant feeding rates in patient population 50 29 Structural & Organizational Facility provides breastfeeding support to employees 69 15 67 Aspects of Facility does not receive infant formula free of charge 3 38 Care Deliverv Breastfeeding is included in prenatal patient education 96 _ Facility has a designated staff member responsible for coordination 83 9 of lactation care

* 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

- 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.

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

Improvement is Needed in Maternity Care Practices and Policies in Illinois

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

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

Sponsor an Illinois-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 Illinois to participate in 18-hour training courses in breastfeeding.

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

☑ 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.

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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