Maternity Practices in Infant Nutrition and Care in Kansas

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 Kansas in order to more successfully meet national quality of care standards for perinatal care.

| | NEBRASKA | Low. |
|---|--------------------|-----------------------|
| COLORADO | | MISSO |
| and the second second second | | Missourt |
| | Republ | Atchison |
| | Salomon | Leavenvorth |
| | | hattan Kansas Cit |
| - | Sathe | TOPEKA T +Lawr |
| Stroky Hill | Salina | Abilene Overland Park |
| K A | NSAS MoPherson | Emporia |
| KA | IN 3 A 3 McPherson | - Chipter II |
| Arkansas | Hutchinson | Neosbo |
| \sim | | |
| Dodge City | Viohita | Fort |
| 0 | | 3 |
| | | Coffeyville |
| and the second se | \sim | |
| | | |
| | 1 | |
| TEXAS | OKLAHON | MA SARKANSA |
| | | |

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 Kansas Facilities | | | |
|--|---|--|--|--|
| | Documentation of Mothers' Feeding Decisions Staff at all (100 %) facilities in Kansas 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 88 % of facilities in Kansas 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 Kansas Facilities | | | | |
| | Appropriate Use of Breastfeeding Supplements Only 28% of facilities in Kansas 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 10% of facilities in Kansas 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. | | |
| | Adequate Assessment of Staff Competency Only 27% of facilities in Kansas annually assess staff competency for basic breastfeeding management and support. | Implementing comprehensive assessment of staff training and skills for basic breastfeeding management and support establishes the foundation for quality infant feeding care. Adequate training and skills assessment are critical to ensure that mothers and infants receive care that is consistent, evidence-based, and appropriate. | | |
| | Protection of Patients from Formula Marketing Only 13 % of facilities in Kansas 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.



DEPARTMENT OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION SAFER • HEALTHIER • PEOPLE[™]



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.

89% of the 76 eligible hospitals and birth centers in Kansas 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: Kansas

Kansas Composite Quality Practice Score*: 59

Kansas State Rank[†]: 37 Percent of ĸs mPINC **Facilities** Subscale ĸs Dimension with Ideal Score* Rank[†] of Care Ideal Response to mPINC Survey Question **Response**[‡] (out of 100) 27 Initial skin-to-skin contact is ≥30 min w/in 1 hour (vaginal births) 40 Initial skin-to-skin contact is \geq 30 min w/in 2 hours (cesarean births) 24 35 Labor and Initial breastfeeding opportunity is w/in I hour (vaginal births) 44 25 57 Delivery Care 22 Initial breastfeeding opportunity is w/in 2 hours (cesarean births) 41 Routine procedures are performed skin-to-skin 27 15 Initial feeding is breast milk (vaginal births) 73 22 Feeding of Initial feeding is breast milk (cesarean births) 66 18 Breastfed 78 Supplemental feedings to breastfeeding infants are rare 28 14 Infants 38 Water and glucose water are not used 61 100 Infant feeding decision is documented in the patient chart Staff provide breastfeeding advice & instructions to patients 84 35 Staff teach breastfeeding cues to patients 60 50 Breastfeeding Staff teach patients not to limit suckling time 33 30 74 Assistance Staff directly observe & assess breastfeeding 81 30 Staff use a standard feeding assessment tool 38 47 Staff rarely provide pacifiers to breastfeeding infants 21 31 Mother-infant pairs are not separated for postpartum transition 56 20 Mother-infant pairs room-in at night 70 20 Contact Between Mother-infant pairs are not separated during the hospital stay 75 32 15 Mother and Infant procedures, assessment, and care are in the patient room 7 Infant 15 Non-rooming-in infants are brought to mothers at night for feeding 87 12 Staff provide appropriate discharge planning Facility 31 15 (referrals & other multi-modal support) 35 Discharge Discharge packs containing infant formula samples and marketing Care 13 41 products are not given to breastfeeding patients New staff receive appropriate breastfeeding education 3 37 20 Current staff receive appropriate breastfeeding education 42 Staff Training 38 Staff received breastfeeding education in the past year 27 41 Assessment of staff competency in breastfeeding management & 27 43 support is at least annual Breastfeeding policy includes all 10 model policy elements 10 26 Breastfeeding policy is effectively communicated 67 48 Facility documents infant feeding rates in patient population 42 42 Structural & Organizational Facility provides breastfeeding support to employees 38 47 54 Aspects of Facility does not receive infant formula free of charge 3 38 . Care Delivery Breastfeeding is included in prenatal patient education 88 37 Facility has a designated staff member responsible for coordination 45 48 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 I to 52, with I 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.

⁴US 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.

⁵Organizations 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 Kansas

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

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

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

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

☑ 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: <u>www.cdc.gov/mpinc</u>

For more information:

mpinc@cdc.gov

Division of Nutrition, Physical Activity, and Obesity National Center for Chronic Disease Prevention and Health Promotion Centers for Disease Control and Prevention Atlanta, GA USA

May, 2010