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Maternity Practices in Infant Nutrition and Care in Colorado - 2011 mPINC Survey

This report provides data from the 2011 mPINC survey for Colorado. It describes specific opportunities to improve mother-baby care at hospitals and birth centers in Colorado 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

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

Changes in Maternity Care Practices Improve Breastfeeding Rates: Maternity practices in hospitals and birth centers can influence breastfeeding behaviors during a period critical to successful establishment of lactation (3). Abundant literature, including a Cochrane review, document that institutional changes in maternity care practices to make them more supportive of breastfeeding increased initiation and duration of breastfeeding (4).

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.

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Strengths in Breastfeeding Support in Colorado Facilities

Provision of Breastfeeding Advice and Counseling	Staff at 96% of facilities in Colorado provide breastfeeding advice and instructions to patients who are breastfeeding, or intend to breastfeed.	The American Academy of Pediatrics (AAP) recommends pediatricians provide patients with complete, current information on the benefitsand methods of breastfeeding to ensure that the feeding decision is a fully informed one. Patient education is important in order to establish breastfeeding.
Availability of Prenatal Breastfeeding Instruction	Most facilities (96%) inColorado 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 Colorado Facilities

Appropriate Use of Breastfeeding Supplements	Only 27% of facilities in Colorado 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.
Adequate Assessment of Staff Competency	Only 23% of facilities in Colorado 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	Only56% of facilities in Colorado 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.
Use of Combined Mother/Baby Postpartum Care	Only57% of facilities in Colorado 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.

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Colorado Summary – 2011 mPINC Survey

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

Response Rate: 91% of the 53 eligible hospitals and birth centers in Colorado responded to the 2011 mPINC survey. Each participating facility received its facility-specific benchmark report in October 2012.

Colorado Composite Quality Practice Score: 77 (Quality Practice scores range from 0 to 100 for each question, dimension 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.)

Colorado State Rank: 9 (Ranks range from 1 to 52, with 1 being the highest rank. In the 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.)

Improvement is Needed in Maternity Care Practices and Policies in Colorado: Many opportunities exist to protect, promote, and support breastfeeding mothers and infants in Colorado. Potential opportunities:

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

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. US 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
3. DiGirolamo AM, Grummer-Strawn LM, Fein S. Maternity care practices: implications for breastfeeding. Birth 2001;28:94-100.
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.

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

For more information: 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

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mPINC Dimension of Care	CO Quality Practice Subscore	Ideal Response to mPINC Survey Question	Percent of Facilities with Ideal Response	CO Rank
Labor and Delivery Care	61			
		Initial skin-to-skin contact is ≥30 min w/in 1 hour (vaginal births)	69	11
		Initial skin-to-skin contact is ≥30 min w/in 2 hours (cesarean births)	61	9
		Initial breastfeeding opportunity is w/in 1 hour (vaginal births)	71	8
		Initial breastfeeding opportunity is w/in 2 hours (cesarean births)	59	16
		Routine procedures are performed skin-to-skin	42	10
Feeding of Breastfed Infants	77			
		Initial feeding is breast milk (vaginal births)	83	16
		Initial feeding is breast milk (cesarean births)	72	21
		Supplemental feedings to breastfeeding infants are rare	27	18
		Water and glucose water are not used	91	---
Breastfeeding Assistance	78			
		Infant feeding decision is documented in the patient chart	98	---
		Staff provide breastfeeding advice & instructions to patients	96	---
		Staff teach breastfeeding cues to patients	88	17
		Staff teach patients not to limit suckling time	45	28
		Staff directly observe & assess breastfeeding	90	---
		Staff use a standard feeding assessment tool	10	7
		Staff rarely provide pacifiers to breastfeeding infants	92	---
Contact Between Mother and Infant	60			
		Mother-infant pairs are not separated for postpartum transition	83	10
		Mother-infant pairs room-in at night	92	---
		Mother-infant pairs are not separated during the hospital stay	57	14
		Infant procedures, assessment, and care are in the patient room	10	7
		Non-rooming-in infants are brought to mothers at night for feeding	92	---
Facility Discharge Care	36			
		Staff provide appropriate discharge planning (referrals & other multi-modal support)	35	12
		Discharge packs containing infant formula samples and marketing products are not given to breastfeeding patients	56	19
Staff Training	61			
		New staff receive appropriate breastfeeding education	10	26
		Current staff receive appropriate breastfeeding education	15	30
		Staff received breastfeeding education in the past year	58	14
		Assessment of staff competency in breastfeeding management & support is at least annual	71	7
Structural & Organizational Aspects of Care Delivery	70			
		Breastfeeding policy includes all 10 model policy elements	23	15
		Breastfeeding policy is effectively communicated	81	18
		Facility documents infant feeding rates in patient population	75	17
		Facility provides breastfeeding support to employees	77	15
		Facility does not receive infant formula free of charge	17	19
		Breastfeeding is included in prenatal patient education	96	---
		Facility has a designated staff member responsible for coordination of lactation care	81	14