Maternity Practices in Infant Nutrition and Care in Alabama

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 Alabama 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. Maternity practices in hospitals and birth centers can influence breastfeeding behaviors during a period critical to successful establishment of lactation. 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.

Strengths in Breastfeeding Support in Alabama Facilities



Documentation of Mothers' Feeding Decisions

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Staff at **98**% of facilities in Alabama 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 InstructionStaff at **96**% of facilities in Alabama 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 Alabama Facilities



Appropriate Use of Breastfeeding Supplements

Only **9**% of facilities in Alabama adhere to standard clinical practice guidelines against routine supplementation with formula glucose water or water

formula, glucose water, or water.

Inclusion of Model Breastfeeding Policy Elements

Only **7**% of facilities in Alabama have comprehensive breastfeeding policies including all model breastfeeding policy components recommended by the Academy of Breastfeeding Medicine (ABM).

Initiation of Mother and Infant Skin-to-Skin Care

Only 22% of facilities in Alabama initiate skin-to-skin care for at least 30 minutes upon delivery of the newborn.



Use of Combined Mother/Baby Postpartum Care

Only 13% of facilities in Alabama report that most healthy full-term infants remain with their mothers for at least 23 hours per day throughout the hospital stay.

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.

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.

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.

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. 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.





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 53 eligible hospitals and birth centers in Alabama 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: Alabama Alabama Composite Quality Practice Score*: 55 Alabama State Rank[†]: 47

mPINC Dimension of Care	Ideal Response to mPINC Survey Question	Percent of Facilities with Ideal Response [‡]	AL Rank [†]	AL Subscale Score* (out of 100)
Labor and Delivery Care	Initial skin-to-skin contact is ≥30 min w/in I hour (vaginal births)	22	51	45
	Initial skin-to-skin contact is ≥30 min w/in 2 hours (cesarean births)	22	37	
	Initial breastfeeding opportunity is w/in I hour (vaginal births)	37	36	
	Initial breastfeeding opportunity is w/in 2 hours (cesarean births)	38	26	
	Routine procedures are performed skin-to-skin	4	46	
Feeding of Breastfed Infants	Initial feeding is breast milk (vaginal births)	50	50	69
	Initial feeding is breast milk (cesarean births)	58	28	
	Supplemental feedings to breastfeeding infants are rare	9	45	
	Water and glucose water are not used	61	38	
Breastfeeding Assistance	Infant feeding decision is documented in the patient chart	98	-	71
	Staff provide breastfeeding advice & instructions to patients	85	32	
	Staff teach breastfeeding cues to patients	74	35	
	Staff teach patients not to limit suckling time	22	44	
	Staff directly observe & assess breastfeeding	74	44	
	Staff use a standard feeding assessment tool	37	48	
	Staff rarely provide pacifiers to breastfeeding infants	9	49	
Contact Between Mother and Infant	Mother-infant pairs are not separated for postpartum transition	20	48	55
	Mother-infant pairs room-in at night	41	51	
	Mother-infant pairs are not separated during the hospital stay	13	36	
	Infant procedures, assessment, and care are in the patient room	0	36	
	Non-rooming-in infants are brought to mothers at night for feeding	56	48	
Facility Discharge Care	Staff provide appropriate discharge planning (referrals & other multi-modal support)	20	34	27
	Discharge packs containing infant formula samples and marketing products are not given to breastfeeding patients	13	41	
Staff Training	New staff receive appropriate breastfeeding education	5	25	53
	Current staff receive appropriate breastfeeding education	21	41	
	Staff received breastfeeding education in the past year	44	18	
	Assessment of staff competency in breastfeeding management & support is at least annual	61	8	
Structural & Organizational Aspects of Care Delivery	Breastfeeding policy includes all 10 model policy elements	7	37	63
	Breastfeeding policy is effectively communicated	76	35	
	Facility documents infant feeding rates in patient population	60	15	
	Facility provides breastfeeding support to employees	52	36	
	Facility does not receive infant formula free of charge	2	42	
	Breastfeeding is included in prenatal patient education	96	-	
	Facility has a designated staff member responsible for coordination of lactation care	57	41	

- * 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.
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 '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.

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 Alabama

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

- ☑ Examine Alabama regulations for maternity facilities and evaluate their evidence base; revise if necessary.
- ☑ Sponsor an Alabama-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 Alabama to participate in 18-hour training courses in breastfeeding.
- ☑ Establish links among maternity facilities and community breastfeeding support networks in Alabama.
- ☑ 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

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

mpinc@cdc.gov May, 2010