Maternity Practices in Infant Nutrition and Care in Florida

In 2007, CDC administered the first national **M**aternity **P**ractices in **I**nfant **N**utrition and **C**are ("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 Florida 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 Florida Facilities

Pie chart of prevalence	Documentation of Mothers' Feeding Decisions	Staff at all (100%) facilities in Florida consistently ask about and record mothers' infant feeding decisions.	Standard documentation of infant feeding decisions is important to adequately support maternal choice.
Pie chart of prevalence	Provision of Breastfeeding Advice and Counseling	Staff at 95% of facilities in Florida 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 benefits and methods of breastfeeding to ensure that the feeding decision is a fully informed one. Patient education is important in order to establish breastfeeding.

Needed Improvements in Florida Facilities

Pie chart of prevalence	Appropriate Use of Breastfeeding Supplements	Only 34% of facilities in Florida 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.
Pie chart of prevalence	Adequate Assessment of Staff Competency	Only 14% of facilities in Florida 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.
Pie chart of prevalence	Protection of Patients from Formula Marketing	Only 39% of facilities in Florida 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.
Pie chart of prevalence	Provision of Hospital Discharge Planning Support	Only 29% of facilities in Florida 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.

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.

Department of Health and Human Services

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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.

74% of the 128 eligible hospitals and birth centers in Florida 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: Florida

Florida **Composite Quality Practice Score*:** 68
Florida **State Rank[+]:** 13

mPINC Dimension of Care	Ideal Response to mPINC Survey Question	Percent of Facilities with Ideal Response[‡]	FL Rank[+]	FL Subscale Score* (out of 100)
Labor and Delivery Care				64
	Initial skin-to-skin contact is ≥30 min w/in 1 hour (vaginal births)	52	12	
	Initial skin-to-skin contact is ≥30 min w/in 2 hours (cesarean births)	34	21	
	Initial breastfeeding opportunity is w/in 1 hour (vaginal births)	50	50	
	Initial breastfeeding opportunity is w/in 2 hours (cesarean births)	31	35	
	Routine procedures are performed skin-to-skin	23	14	
Feeding of Breastfed Infants				79
	Initial feeding is breast milk (vaginal births)	62	40	
	Initial feeding is breast milk (cesarean births)	49	39	
	Supplemental feedings to breastfeeding infants are rare	34	10	
	Water and glucose water are not used	84	7	
Breastfeeding Assistance				84
	Infant feeding decision is documented in the patient chart	100	-	
	Staff provide breastfeeding advice & instructions to patients	95	-	
	Staff teach breastfeeding cues to patients	92	-	
	Staff teach patients not to limit suckling time	45	13	
	Staff directly observe & assess breastfeeding	94	-	
	Staff use a standard feeding assessment tool	65	14	
	Staff rarely provide pacifiers to breastfeeding infants	37	13	
Contact Between Mother and Infant				77
	Mother-infant pairs are not separated for postpartum transition	62	17	
	Mother-infant pairs room-in at night	89	5	
	Mother-infant pairs are not separated during the hospital stay	36	13	
	Infant procedures, assessment, and care are in the patient room	17	7	
	Non-rooming-in infants are brought to mothers at night for feeding	64	41	

mPINC Dimension of Care	Ideal Response to mPINC Survey Question	Percent of Facilities with Ideal Response‡	FL Rank+	FL Subscale Score* (out of 100)
Facility Discharge Care				44
	Staff provide appropriate discharge planning (referrals & other multi-modal support)	29	18	
	Discharge packs containing infant formula samples and marketing products are not given to breastfeeding patients	39	15	
Staff Training				56
	New staff receive appropriate breastfeeding education	7	16	
	Current staff receive appropriate breastfeeding education	25	27	
	Staff received breastfeeding education in the past year	47	13	
	Assessment of staff competency in breastfeeding management & support is at least annual	59	10	
Structural & Organizational Aspects of Care Delivery				70
	Breastfeeding policy includes all 10 model policy elements	14	13	
	Breastfeeding policy is effectively communicated	72	42	
	Facility documents infant feeding rates in patient population	56	19	
	Facility provides breastfeeding support to employees	66	20	
	Facility does not receive infant formula free of charge	18	9	
	Breastfeeding is included in prenatal patient education	94	-	
	Facility has a designated staff member responsible for coordination of lactation care	75	18	

* 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.

Improvement is Needed in Maternity Care Practices and Policies in Florida

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

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

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[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.