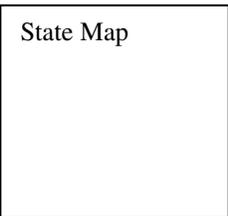


[the following information appears on page 1 of each State Report]

Maternity Practices in Infant Nutrition and Care in Utah

In 2009, 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 Utah 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 Utah Facilities

	Documentation of Mothers' Feeding Decisions	Staff at 100% of facilities in Utah consistently ask about and record mothers' infant feeding decisions.	Standard documentation of infant feeding decisions is important to adequately support maternal choice.
	Provision of Breastfeeding Advice and Counseling	Staff at 82% of facilities in Utah 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.

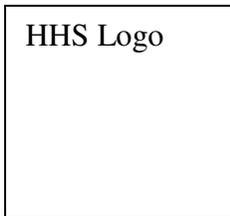
Needed Improvements in Utah Facilities

	Appropriate Use of Breastfeeding Supplements	Only 19% of facilities in Utah 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 9% of facilities in Utah 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.
	Provision of Hospital Discharge Planning Support	Only 11% of facilities in Utah 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.
	Protection of Patients from Formula Marketing	Only 15% of facilities in Utah 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.

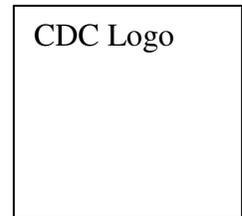
Breastfeeding is a National Priority

Breastfeeding protects mothers' and infants' health.¹ *Healthy People 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
Centers for Disease Control and Prevention
Safer, Healthier, People



[the following information appears on page 2 of each State Report]

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.

27% of the 36 eligible hospitals and birth centers in Utah responded to the 2009 CDC mPINC survey.

Each participating facility received its facility-specific benchmark report in Spring 2011.

For more information about the mPINC survey, visit www.cdc.gov/mpinc

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

Improvement is Needed in Maternity Care Practices and Policies in

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

- Examine Utah regulations for maternity facilities and evaluate their evidence base; revise if necessary.
- Sponsor a Utah-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 Utah to participate in 18-hour training courses in breastfeeding.
- Establish links among maternity facilities and community breastfeeding support networks in Utah.
- 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 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**](mailto:mpinc@cdc.gov)

June 2011

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.

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.

Results of the 2009 CDC mPINC Survey: Utah

Utah Composite Quality Practice Score*: 64

Utah State Rank⁺: 24

mPINC Dimension of Care	Ideal Response to mPINC Survey Question	Percent of Facilities with Ideal Response[‡]	UT Rank⁺	UT Subscale Score* (out of 100)
Labor and Delivery Care				72
	Initial skin-to-skin contact is \geq 30 min w/in 1 hour (vaginal births)	52	14	
	Initial skin-to-skin contact is \geq 30 min w/in 2 hours (cesarean births)	28	29	
	Initial breastfeeding opportunity is w/in 1 hour (vaginal births)	78	3	
	Initial breastfeeding opportunity is w/in 2 hours (cesarean births)	52	17	
	Routine procedures are performed skin-to-skin	19	25	
Feeding of Breastfed Infants				79
	Initial feeding is breast milk (vaginal births)	96	-	
	Initial feeding is breast milk (cesarean births)	68	22	
	Supplemental feedings to breastfeeding infants are rare	19	30	
	Water and glucose water are not used	63	40	
Breastfeeding Assistance				82
	Infant feeding decision is documented in the patient chart	100	-	
	Staff provide breastfeeding advice & instructions to patients	82	42	
	Staff teach breastfeeding cues to patients	52	52	
	Staff teach patients not to limit suckling time	32	42	
	Staff directly observe & assess breastfeeding	82	28	
	Staff use a standard feeding assessment tool	0	33	
	Staff rarely provide pacifiers to breastfeeding infants	86	17	
Contact Between Mother and Infant				75
	Mother-infant pairs are not separated for postpartum transition	46	33	
	Mother-infant pairs room-in at night	65	34	
	Mother-infant pairs are not separated during the hospital stay	40	18	
	Infant procedures, assessment, and care are in the patient room	0	33	
	Non-rooming-in infants are brought to mothers at night for feeding	86	17	

mPINC Dimension of Care	Ideal Response to mPINC Survey Question	Percent of Facilities with Ideal Response[‡]	UT Rank⁺	UTSubscale Score* (out of 100)
Facility Discharge Care				27
	Staff provide appropriate discharge planning (referrals & other multi-modal support)	11	47	
	Discharge packs containing infant formula samples and marketing products are not given to breastfeeding patients	15	46	
Staff Training				51
	New staff receive appropriate breastfeeding education	12	12	
	Current staff receive appropriate breastfeeding education	13	26	
	Staff received breastfeeding education in the past year	27	42	
	Assessment of staff competency in breastfeeding management & support is at least annual	54	18	
Structural & Organizational Aspects of Care Delivery				64
	Breastfeeding policy includes all 10 model policy elements	9	35	
	Breastfeeding policy is effectively communicated	59	45	
	Facility documents infant feeding rates in patient population	58	37	
	Facility provides breastfeeding support to employees	70	17	
	Facility does not receive infant formula free of charge	7	25	
	Breastfeeding is included in prenatal patient education	84	45	
	Facility has a designated staff member responsible for coordination of lactation care	70	28	

* 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.