

Maternity Practices in Infant Nutrition and Care in Hawaii

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 Hawaii 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 Hawaii Facilities

	<p>Documentation of Mothers' Feeding Decisions Staff at all (100%) facilities in Hawaii consistently ask about and record mothers' infant feeding decisions.</p>	<p>Standard documentation of infant feeding decisions is important to adequately support maternal choice.</p>
	<p>Provision of Breastfeeding Advice and Counseling Staff at 89% of facilities in Hawaii provide breastfeeding advice and instructions to patients who are breastfeeding, or intend to breastfeed.</p>	<p>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.</p>

Needed Improvements in Hawaii Facilities

	<p>Appropriate Use of Breastfeeding Supplements Only 11% of facilities in Hawaii adhere to standard clinical practice guidelines against routine supplementation with formula, glucose water, or water.</p>	<p>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.</p>
	<p>Inclusion of Model Breastfeeding Policy Elements Only 11% of facilities in Hawaii have comprehensive breastfeeding policies including all model breastfeeding policy components recommended by the Academy of Breastfeeding Medicine (ABM).</p>	<p>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.</p>
	<p>Protection of Patients from Formula Marketing No (0%) facilities in Hawaii adhere to clinical and public health recommendations against distributing formula company discharge packs.</p>	<p>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.</p>
	<p>Provision of Hospital Discharge Planning Support No (0%) facilities in Hawaii provide hospital discharge care including a phone call to the patient's home, opportunity for follow-up visit, and referral to community breastfeeding support.</p>	<p>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.</p>

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.



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.

75% of the 12 eligible hospitals and birth centers in Hawaii 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: Hawaii

Hawaii Composite Quality Practice Score*: 62

Hawaii State Rank†: 25

mPINC Dimension of Care	Ideal Response to mPINC Survey Question	Percent of Facilities with Ideal Response‡	HI Rank†	HI Subscale Score* (out of 100)
Labor and Delivery Care	Initial skin-to-skin contact is ≥30 min w/in 1 hour (vaginal births)	78	4	79
	Initial skin-to-skin contact is ≥30 min w/in 2 hours (cesarean births)	63	3	
	Initial breastfeeding opportunity is w/in 1 hour (vaginal births)	50	18	
	Initial breastfeeding opportunity is w/in 2 hours (cesarean births)	50	10	
	Routine procedures are performed skin-to-skin	33	8	
Feeding of Breastfed Infants	Initial feeding is breast milk (vaginal births)	88	4	80
	Initial feeding is breast milk (cesarean births)	75	8	
	Supplemental feedings to breastfeeding infants are rare	11	42	
	Water and glucose water are not used	67	32	
Breastfeeding Assistance	Infant feeding decision is documented in the patient chart	100	-	76
	Staff provide breastfeeding advice & instructions to patients	89	23	
	Staff teach breastfeeding cues to patients	78	26	
	Staff teach patients not to limit suckling time	11	50	
	Staff directly observe & assess breastfeeding	89	12	
	Staff use a standard feeding assessment tool	44	40	
	Staff rarely provide pacifiers to breastfeeding infants	22	29	
Contact Between Mother and Infant	Mother-infant pairs are not separated for postpartum transition	78	7	83
	Mother-infant pairs room-in at night	78	13	
	Mother-infant pairs are not separated during the hospital stay	17	29	
	Infant procedures, assessment, and care are in the patient room	0	36	
	Non-rooming-in infants are brought to mothers at night for feeding	71	33	
Facility Discharge Care	Staff provide appropriate discharge planning (referrals & other multi-modal support)	0	51	14
	Discharge packs containing infant formula samples and marketing products are not given to breastfeeding patients	0	51	
Staff Training	New staff receive appropriate breastfeeding education	0	45	38
	Current staff receive appropriate breastfeeding education	50	2	
	Staff received breastfeeding education in the past year	13	50	
	Assessment of staff competency in breastfeeding management & support is at least annual	13	51	
Structural & Organizational Aspects of Care Delivery	Breastfeeding policy includes all 10 model policy elements	11	21	60
	Breastfeeding policy is effectively communicated	71	44	
	Facility documents infant feeding rates in patient population	57	18	
	Facility provides breastfeeding support to employees	78	4	
	Facility does not receive infant formula free of charge	0	46	
	Breastfeeding is included in prenatal patient education	78	49	
Facility has a designated staff member responsible for coordination of lactation care	56	45		

* 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

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

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

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