## Maternity Practices in Infant Nutrition and Care In **Missouri** — 2009 mPINC Survey

This report provides data from the 2009 mPINC survey for Missouri. It describes specific opportunities to improve mother-baby care at hospitals and birth centers in Missouri in order to more successfully meet national quality of care standards for perinatal care.



More information is at www.cdc.gov/mpine

Breastfeeding is a Breastfeeding is associated with decreased risk for infant morbidity and mortality as well as **National Priority** maternal morbidity,<sup>\*</sup> and provides optimal infant nutrition. *Healthy People 2020*<sup>2</sup> establishes breastfeeding initiation, continuation, and exclusivity as national priorities.

# Breastfeeding Rates breastfeeding.<sup>4</sup>

Changes in Maternity practices in hospitals and birth centers can influence breastfeeding behaviors Maternity Care Practices Improve including a Cochrane review, document that institutional changes in maternity care practices to make them more supportive of breastfeeding increase initiation and continuation of

## Breastfeeding Support in Missouri Facilities

#### **Strenaths**

_		
	<b>Provision of Breastfeeding Advice and Counseling</b> Staff at 92% of facilities in Missouri 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.
	<b>Availability of Prenatal Breastfeeding Instruction</b> Most facilities (93%) in Missouri 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

<b>Appropriate Use of Breastfeeding Supplements</b> Only 24% of facilities in Missouri 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.
<b>Inclusion of Model Breastfeeding Policy Elements</b> Only 10% of facilities in Missouri have comprehensive breastfeeding policies including all model breastfeeding policy components recommended by the Academy of Breastfeeding Medicine (ABM).	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.
<b>Protection of Patients from Formula Marketing</b> Only 17% of facilities in Missouri 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.
<b>Initiation of Mother and Infant Skin-to-Skin Care</b> Only 35% of facilities in Missouri initiate skin-to-skin care for at least 30 minutes upon delivery of the newborn.	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.

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.

National Center for Chronic Disease Prevention and Health Promotion



## Missouri Summary — 2009 mPINC Survey

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

**Response** 86% of the 71 eligible facilities in Missouri responded to the 2009 mPINC Survey. Rate Each participating facility received its facility-specific mPINC benchmarking report in March 2011.

Missouri's **Composite Quality** Practice Score

Training

Structural & Organizational

Aspects of Care Delivery 67



Missouri's Composite Rank<sup>†</sup> 24

		(out of 100) (out of	(out of 52)	
mPINC Dimension of Care	MO Quality Practice Subscore*	Ideal Response to mPINC Survey Question	Percent of MO Facilities with Ideal Response	MO Item
	65	Initial skin-to-skin contact is ≥30 min w/in 1 hour (vaginal births)	35	36
		Initial skin-to-skin contact is ≥30 min w/in 2 hours (cesarean births)	42	14
Labor and Delivery Care		Initial breastfeeding opportunity is w/in 1 hour (vaginal births)	53	25
,		Initial breastfeeding opportunity is w/in 2 hours (cesarean births)	53	15
		Routine procedures are performed skin-to-skin	13	36
	78	Initial feeding is breast milk (vaginal births)	63	44
Feeding of Breastfed		Initial feeding is breast milk (cesarean births)	60	32
Infants		Supplemental feedings to breastfeeding infants are rare	24	20
		Water and glucose water are not used	71	31
		Infant feeding decision is documented in the patient chart	95	-
		Staff provide breastfeeding advice & instructions to patients	92	-
	80	Staff teach breastfeeding cues to patients	75	42
Breastfeeding Assistance		Staff teach patients not to limit suckling time	37	38
		Staff directly observe & assess breastfeeding	85	23
		Staff use a standard feeding assessment tool	66	20
		Staff rarely provide pacifiers to breastfeeding infants	15	46
	68	Mother-infant pairs are not separated for postpartum transition	63	22
Contact Between		Mother-infant pairs room-in at night	62	38
Mother and		Mother-infant pairs are not separated during the hospital stay	21	35
Infant		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
Facility Discharge	40	Staff provide appropriate discharge planning (referrals & other multi-modal support)	38	10
Care		Discharge packs containing infant formula samples and marketing products are not given to breastfeeding patients	17	42
		New staff receive appropriate breastfeeding education	7	26
Staff	54	Current staff receive appropriate breastfeeding education	16	17

#### Improvement is Needed in **Maternity Care Practices** and Policies in Missouri.

Many opportunities exist to protect, promote, and support breastfeeding mothers and infants in Missouri.

#### Take action on this critical need—consider the following:

- Examine Missouri regulations for maternity facilities and evaluate their evidence base; revise if necessary.
- Sponsor a Missouri-wide summit of key decision-making staff at maternity facilities to highlight the importance of evidencebased practices for breastfeeding.
- Pay for hospital staff across Missouri to participate in 18hour training courses in breastfeeding.
- Establish links among maternity facilities and community breastfeeding support networks in Missouri.
- 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 hospital-wide Quality Improvement efforts across Missouri.
- Promote Missouri-wide utilization of the Joint **Commission's Perinatal Care** Core Measure Set including exclusive breastfeeding at discharge in hospital data collection.

#### Questions about the mPINC survey?

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

For more information:

Division of Nutrition, Physical Activity, and Obesity Centers for Disease Control and Prevention Atlanta, GA USA April 2011

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. + Ranks range from 1 to 52, with 1 being the highest rank. In case of a tie, both are given the same rank

of lactation care

support is at least annual

- State ranks are not shown for survey questions with 90% or more facilities reporting ideal responses.

Staff received breastfeeding education in the past year

Breastfeeding policy includes all 10 model policy elements

Facility documents infant feeding rates in patient population

Facility has a designated staff member responsible for coordination

Breastfeeding policy is effectively communicated

Facility provides breastfeeding support to employees

Facility does not receive infant formula free of charge

Breastfeeding is included in prenatal patient education

\* Quality Practice scores range from o to 100 for each question, dimenstion of care, facility, and state. The highest, best

Assessment of staff competency in breastfeeding management &

#### References

<sup>1</sup>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. <sup>2</sup>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 <sup>3</sup>DiGirolamo AM, Grummer-Strawn LM, Fein S. Effect of maternity care practices on breastfeeding. Pediatrics 2008;122, Supp 2:S43-9.

<sup>4</sup> 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.

46

51

10

71

62

72

3

93

74

22

23

32

31

34

13

38

23