

# Maternity Practices in Infant Nutrition and Care in South Carolina —2011 mPINC Survey



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This report provides data from the 2011 mPINC survey for South Carolina. It describes specific opportunities to improve mother-baby care at hospitals and birth centers in South Carolina in order to more successfully meet national quality of care standards for perinatal care.

## Breastfeeding is a National Priority

Breastfeeding is associated with decreased risk for infant morbidity and mortality as well as maternal morbidity,<sup>1</sup> and provides optimal infant nutrition. *Healthy People 2020*<sup>2</sup> establishes breastfeeding initiation, continuation, and exclusivity as national priorities.

## Changes in Maternity Care Practices Improve Breastfeeding Rates

Maternity practices in hospitals and birth centers can influence breastfeeding behaviors during a period critical to successful establishment of lactation.<sup>3</sup> Abundant literature, 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.<sup>4</sup>

## Breastfeeding Support in South Carolina Facilities

### Strengths

	<p><b>Availability of Prenatal Breastfeeding Instruction</b> All facilities (100%) in South Carolina include breastfeeding education as a routine element of their prenatal classes.</p>	<p>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.</p>
	<p><b>Documentation of Mothers' Feeding Decisions</b> Staff at all (100%) facilities in South Carolina 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>

### Needed Improvements

	<p><b>Appropriate Use of Breastfeeding Supplements</b> Only 26% of facilities in South Carolina 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><b>Inclusion of Model Breastfeeding Policy Elements</b> Only 11% of facilities in South Carolina 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><b>Adequate Assessment of Staff Competency</b> Only 50% of facilities in South Carolina annually assess staff competency for basic breastfeeding management and support.</p>	<p>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.</p>
	<p><b>Use of Combined Mother/Baby Postpartum Care</b> Only 32% of facilities in South Carolina report that most healthy full-term infants remain with their mothers for at least 23 hours per day throughout the hospital stay.</p>	<p>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.</p>

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.



# South Carolina Summary —2011 mPINC Survey

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

**Response Rate** 75% of the 51 eligible facilities in South Carolina responded to the 2011 mPINC Survey. Each participating facility received its facility-specific mPINC benchmarking report in October 2012.

**South Carolina's Composite Quality Practice Score\*** **67**  
(out of 100)

**South Carolina's Composite Rank†** **31**  
(out of 53)

mPINC Dimension of Care	SC Quality Practice Subscore*	Ideal Response to mPINC Survey Question	Percent of SC Facilities with Ideal Response	SC Item Rank†
<b>Labor and Delivery Care</b>	<b>66</b>	Initial skin-to-skin contact is ≥30 min w/in 1 hour (vaginal births)	61	18
		Initial skin-to-skin contact is ≥30 min w/in 2 hours (cesarean births)	27	46
		Initial breastfeeding opportunity is w/in 1 hour (vaginal births)	63	17
		Initial breastfeeding opportunity is w/in 2 hours (cesarean births)	44	34
		Routine procedures are performed skin-to-skin	32	21
<b>Feeding of Breastfed Infants</b>	<b>79</b>	Initial feeding is breast milk (vaginal births)	74	32
		Initial feeding is breast milk (cesarean births)	65	30
		Supplemental feedings to breastfeeding infants are rare	26	23
		Water and glucose water are not used	81	31
<b>Breastfeeding Assistance</b>	<b>83</b>	Infant feeding decision is documented in the patient chart	100	---
		Staff provide breastfeeding advice & instructions to patients	90	---
		Staff teach breastfeeding cues to patients	79	39
		Staff teach patients not to limit suckling time	49	24
		Staff directly observe & assess breastfeeding	82	36
		Staff use a standard feeding assessment tool	55	44
		Staff rarely provide pacifiers to breastfeeding infants	34	29
<b>Contact Between Mother and Infant</b>	<b>66</b>	Mother-infant pairs are not separated for postpartum transition	42	45
		Mother-infant pairs room-in at night	76	26
		Mother-infant pairs are not separated during the hospital stay	32	28
		Infant procedures, assessment, and care are in the patient room	9	8
		Non-rooming-in infants are brought to mothers at night for feeding	73	47
<b>Facility Discharge Care</b>	<b>54</b>	Staff provide appropriate discharge planning (referrals & other multi-modal support)	32	20
		Discharge packs containing infant formula samples and marketing products are not given to breastfeeding patients	53	22
<b>Staff Training</b>	<b>51</b>	New staff receive appropriate breastfeeding education	11	20
		Current staff receive appropriate breastfeeding education	8	45
		Staff received breastfeeding education in the past year	51	23
		Assessment of staff competency in breastfeeding management & support is at least annual	50	30
<b>Structural &amp; Organizational Aspects of Care Delivery</b>	<b>69</b>	Breastfeeding policy includes all 10 model policy elements	11	42
		Breastfeeding policy is effectively communicated	76	32
		Facility documents infant feeding rates in patient population	61	43
		Facility provides breastfeeding support to employees	68	30
		Facility does not receive infant formula free of charge	14	24
		Breastfeeding is included in prenatal patient education	100	---
		Facility has a designated staff member responsible for coordination of lactation care	68	33

\* Quality Practice scores range from 0 to 100 for each question, dimension of care, facility, and state. The highest, best 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.

- 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.
- 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/topics/objectives/2020/pdfs/MaternalChildHealth.pdf>
- DiGirolamo AM, Grummer-Strawn LM, Fein S. Effect of maternity care practices on breastfeeding. Pediatrics 2008;122, Supp 2:S43-9.
- 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.

## Improvement is Needed in Maternity Care Practices and Policies in South Carolina.

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

### Potential opportunities:

- Examine South Carolina regulations for maternity facilities and evaluate their evidence base.
- Sponsor a South Carolina-wide summit of key decision-making staff at maternity facilities to highlight the importance of evidence-based practices for breastfeeding.
- Encourage and support hospital staff across South Carolina to be trained in providing care that supports mothers to breastfeed.
- Establish links among maternity facilities and community breastfeeding support networks in South Carolina.
- Implement evidence-based practices in medical care settings across South Carolina that support mothers' efforts to breastfeed.
- Integrate maternity care into related hospital-wide Quality Improvement efforts across South Carolina.
- Promote utilization of the Joint Commission's Perinatal Care Core Measure Set including exclusive breast milk feeding at hospital discharge in South Carolina hospital data collection systems.

### Questions about the mPINC survey?

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

**For more information:**  
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