

CenteringPregnancy

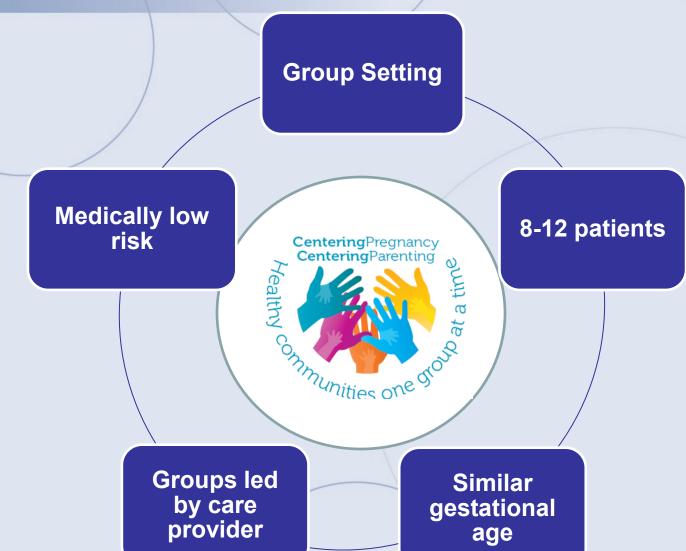
Improving prenatal care with an innovative, evidence-based model

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CenteringPregnancy: Design





Design: Schedule





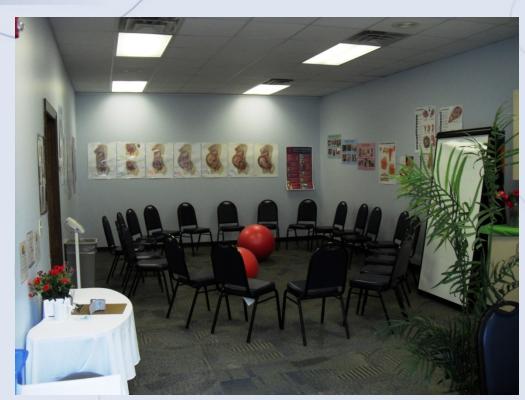
- Four sessions every 4 weeks
- Six sessions every 2 weeks
- Post-partum reunion
- Additional visits as needed to address issues

Design: Two hour session



30-40 minutes
Check-in
individual assessments
with the provider

60-75 minutesFormal "circle-up"
facilitated discussion



Informal time for socializing Closing and follow-up as needed

Assessment: Self-care







Assessment: Check-up







Individual physical assessment

Education: Self-Assessment





PARENTING
NUTRITION
FAMILY ISSUES
COMFORT MEASURES
COMMON PROBLEMS

Education: Discussion



Communication Sexuality/contraception

Nutrition and infant feeding

Birth preparation

Comfort measures Stress management

Education: Process





Interactive discussion
Stable group members and leadership

Time for sharing











Why I Loved Centering...



...because I was able to spend more than 10 minutes with the doctor.

...being around other women who I can relate to.

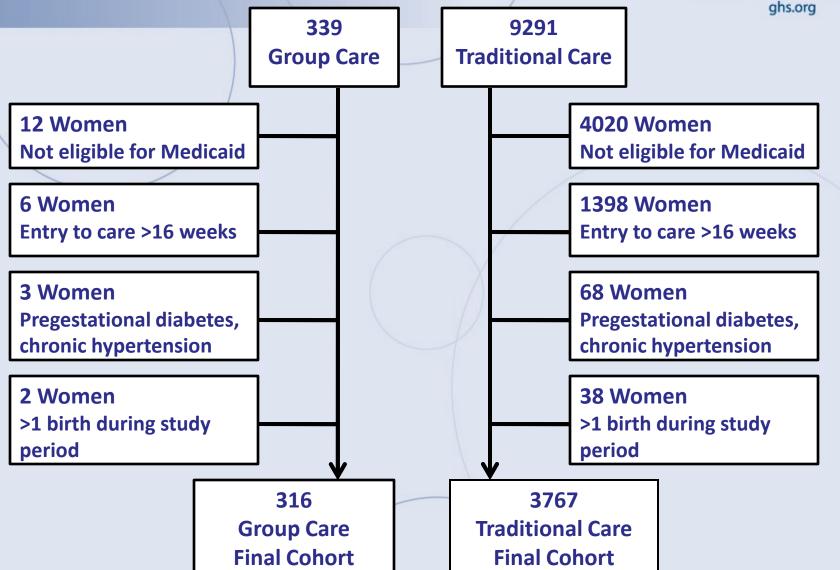
..because I learned a lot that I used during my delivery and when he was born. ...seeing the same staff every time I came in made me feel comfortable and close to them.

...because I didn't feel like I was alone! the interaction with the other girls-it was nice to compare experiences.

...doing my own blood pressure and weight-it made me feel involved in my care!

Study Cohort





Demographics



Characteristic	Group Care N = 316	Traditional Care N = 3767	<i>P-</i> value
Maternal Age (Mean ± SD)	23.1 ± 4.6	25.1 ± 5.6	<0.001
Maternal Race/Ethnicity: No (%) White Black Hispanic Other	107 (33.9) 107 (33.9) 55 (17.4) 47 (14.9)	1725 (45.8) 961 (25.5) 835 (22.2) 246 (6.5)	<0.001
Married: No. (%)	75 (23.7)	1314 (34.9)	<0.001
Nulliparous: No. (%)	199 (63.0)	1549 (41.1)	<0.001
Prenatal Care Began 0-2 mo: No. (%)	181 (57.3)	1288 (34.2)	<0.001

Demographics

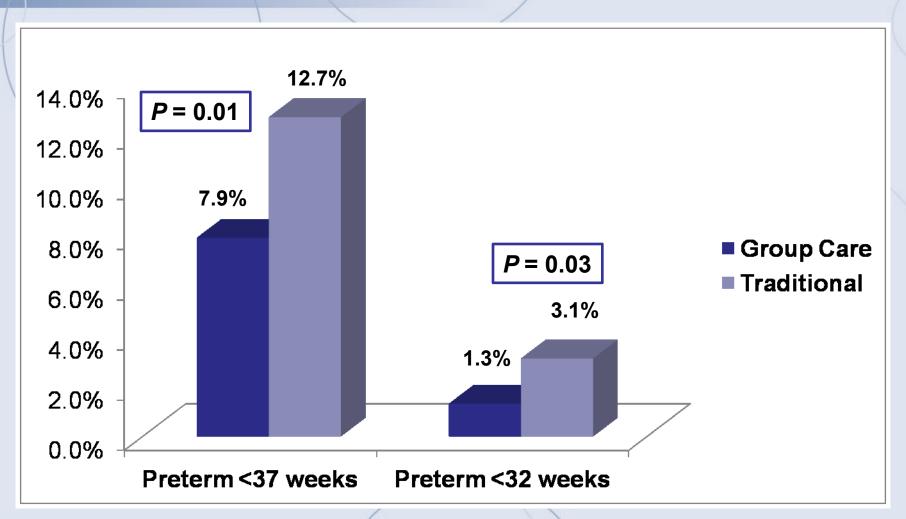


Characteristic: No. (%)	Entire Cohort Group Care N = 316	Entire Cohort Traditional Care N = 3767	<i>P-</i> value ^a		
Sexually Transmitted Infection ^b :	50 (15.8)	515 (13.7)	0.287		
Tobacco Use During Pregnancy:	53 (16.8)	753 (20.0)	0.166		
Previous Preterm Birth:	10 (3.2)	205 (5.4)	0.082		
Mother's Education:					
< High School	114 (36.1)	1532 (40.7)	0.266		
= High school diploma/ GED	105 (33.2)	1176 (31.3)			
> High School	97 (30.7)	1055 (28.0)			
^a Maternal age compared with t-test, remainder with chi-square					

^bNesseria Gonorrhea, Chlamydia Trachomatis, Herpes Simplex

Preterm Birth







Risk of preterm birth <37 weeks for women participating in group care

Adjusted OR 0.53

95% CI 0.34-0.81, *P*=0.004

47% REDUCTION

Comparisons for preterm delivery <37 weeks by race/ethnicity within groups



Mother's	Group Care			Traditional Care		
Race/	Number of	Preterm	Chi	Number of	Preterm	Chi
Ethnicity	subjects	<37	Square	subjects	<37	Square
		N (%)			N (%)	
White	107	7 (6.5)	P=0.63	1725	236 (13.7)	P<0.01
Black	107	8 (7.5)		961	155 (16.1)	
Hispanic	55	4 (7.3)		835	58 (7.0)	
Other	47	6 (12.8)		246	28 (11.4)	

SC DHHS planning to support CenteringPregnancy



- \$150 \$200 per patient
 - One-time incentive payment after 5 visits
- Start-up funding and training will also be covered.
 - "Bidders conference" in November 5, 2012
 - Applications available after the conference

Cost savings to date for CenteringPregnancy



Group	Centering Event rate	Traditional Event rate	Difference	Cases Prevented	Estimated Cost Savings
Preterm, NICU	4.3%	7.0%	2.7%	34	\$995,758
Term, NICU	2.3%	2.9%	0.6%	7	\$45,906
Preterm, Non-NICU	3.3%	5.2%	1.9%	24	\$36,408
					\$1,078,072
Maternal S	Savings			+	\$717,688

TOTAL

\$1,795,760

Logistic regression modeling



		1
Characteristic	Entire cohort Adjusted Odds Ratio (95% CI) for Preterm Birth <37 weeks	<i>P</i> -value
Mother's Race/Ethnicity:		
White	Referent	
Black	1.20 (0.95, 1.50)	0.122
Hispanic	0.51 (0.38, 0.69)	< 0.001
Other	0.87 (0.59, 1.28)	0.472
Month Prenatal Care Began:		
0-2 months	0.69 (0.57, 0.84)	<0.001
3-4 months	Referent	
Previous Preterm Birth:		
No	Referent	
Yes	2.54 (1.80. 3.58)	<0.001
Participation in Group Care:		
No	Referent	
Yes	0.53 (0.34, 0.81)	0.004