
Michigan Families Medicaid Project:

REDESIGNING STATE MEDICAID POLICY AND PROGRAMS TO SUPPORT IMPROVEMENT IN PREGNANCY OUTCOMES

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Background

- Medicaid insures almost 40% of births in the US
- State and federal dollars support enhanced prenatal services (EPS) in 80% states for Medicaid insured women
- Despite investments, disparities persist
- Can EPS programs be improved?

Purpose

To present:

- A state-wide evaluation of participation in Michigan (MI) EPS program by risk factors
- The development of a two-tiered risk screening and assessment tool
- Preliminary findings of EPS participants using the new tool
- Policy implications for EPS program redesign efforts

Methods

- **Evaluation study**
 - All women with Medicaid for at least one prenatal month linked to infant with at least one month (N=54,583) in 2005 (fiscal year)
 - Linked vital record, WIC, Medicaid data
- **Risk screener study**
 - Convenience sample of women enrolled in EPS services in rural and urban counties (N=2,203)

EPS Evaluation Study

FY 2005 Single Risk Characteristics by EPS Enrollment			
	Total N (%)	No EPS Enrollment %	Yes EPS Enrollment %
Total	54,583	73.98	26.02
<12 th grade education	14, 777 (27.07)	67.47	32.53
Black	15,294 (28.24)	73.90	26.10
<100% FPL	11,664 (21.37)	68.82	31.18
Smoke	18,568 (34.02)	71.66	28.34
Alcohol use	7,345 (13.46)	70.47	29.53
Diagnosed Depression	3,453 (6.33)	58.73	41.27

EPS Evaluation

FY 2005 Multiple Risk Characteristics by EPS Enrollment				
N=54,583				
	Total N (%)	No EPS Enrollment %	Yes EPS Enrollment %	P-value
0 risks	3,857 (7.07)	83.10	16.90	<.01
1-2 risks	27,900 (51.11)	76.54	23.46	
3-4 risks	19,402 (35.55)	70.43	29.57	
≥ 5 risks	3,424 (6.27)	62.88	37.12	

Risk characteristics include: age, education, race/ethnicity, SES, marital status, smoking, alcohol use, drug use, diagnosed depression, history of chronic disease, and rapid repeat pregnancy less than 18 months (birth-to-conception).

EPS Redesign Strategies

- A process for rapidly identifying high risk women
- Engaging them in specific, evidence based interventions
- Service intensity matched to risk level
- Facilitating broader based health education and referral services for those presenting at lower levels of risk.

Risk Screening and Assessment Tool

- Hybrid initial screening and assessment for those with positive screen on selected risk factors
- 2 question PHQ for depression; Edinburgh for + screens
- Smoke now, past, amount (Mullen); Fagerstrom nicotine dependence for + screens; readiness to quit

The screener may be found on the web (form number MSA 1200):
http://michigan.gov/mdch/0,1607,7-132-2945_5100-43782--,00.html

Screenener study (N=2,203)

- Contraception results
- Tobacco use
- Depression
- Stress
- Basic needs

Screenener study (N=2,203): Contraception

Pregnancy Want Time by Using Birth Control		
	No BC N (%)	Yes BC N (%)
Wanted sooner/now	550 (93.90)	41 (6.94)
Wanted later	686 (73.29)	250 (26.71)
Not wanted now or ever	209 (71.33)	84 (28.67)

Screenener study (N=2,203): Tobacco Use

	N (%)
TOTAL	N=2,203
SMOKING	n=2,159
Not smoking	1226 (56.79)
Currently smoking during pregnancy	566 (26.22)
Quit when found out pregnant	367 (17.00)

Screenener study (N=2,203): Tobacco Use

<i>Of those who currently smoke:</i>	N (%)
	n=561
Smoke <1 pack per day	513 (91.44)
Smoke >1 pack per day	48 (8.56)
	n=455
Fagerstrom <5 (low dependence)	338 (74.29)
Fagerstrom >5 (med-to-high dependence)	117 (25.71)
	n=550
Seriously thought about quitting during pregnancy	489 (88.91)
	n=541
Tried to quit in last 30 days	282 (52.13)

Screenener study (N=2,203): Tobacco Use

<i>Of those who quit smoking:</i>	N (%)
	n=248
Smoke <1 pack per day	209 (84.28)
Smoke >1 pack per day	39 (15.72)
	n=98
Fagerstrom <5 (low dependence)	78 (79.59)
Fagerstrom >5 (med-to-high dependence)	20 (20.41)

Screenener study (N=2,203): Depression

	N (%)
TOTAL	N=2,203
DEPRESSION	n=2,115
Negative PHQ-2 score for depression	988 (46.71)
Positive PHQ-2 score for depression	1,127 (53.29)
<i>Of those with positive PHQ-2:</i>	n=1010
<i>EPDS ≥13 (moderate-severe)</i>	341 (33.76)
EPDS 9-12 (mild)	258 (25.54)
EPDS <9 (not depressed)	411 (40.70)
<i>Of those with negative PHQ-2:</i>	n=401
<i>EPDS ≥13 (moderate-severe)</i>	12 (2.99)
EPDS 9-12 (mild)	31 (7.73)
EPDS <9 (not depressed)	358 (89.28)

Screenener study (N=2,203): Stress

	N (%)
TOTAL	N=2203
STRESS	n=2045
Perceived Stress Scale-4: 0-4	950 (46.45)
Perceived Stress Scale-4: 5-8	714 (34.91)
Perceived Stress Scale-4: 9-12	313 (15.31)
Perceived Stress Scale-4: 13-16	68 (3.33)

Screenener study (N=2,203): Basic Needs

	N (%)
	n=2,159
In last 12 months, cut the size of meals or skip meals because of not enough money for food	481 (21.83)
<i>Number of times moved in past 12 months:</i>	n=2,102
0	863 (39.17)
1	627 (28.46)
2	301 (13.66)
3	167 (7.58)
4	109 (4.95)

Screenener study (N=2,203): Basic Needs

	N (%)
	n= 2,128
Housing concerns or worries	653 (29.64)
<i>Access to a telephone to make and receive calls:</i>	n=2,148
Never	43 (1.95)
Sometimes	145 (6.58)
Always	1995 (88.74)

Screenener study (N=2,203): Multiple Risk Characteristics

Multiple Risk Characteristics	
	N (%)
TOTAL	n=1314
0 risks	53 (4.03)
1-2 risks	412 (31.35)
3-4 risks	525 (39.95)
≥ 5 risks	324 (24.66)

Risk characteristics include: age, education, race/ethnicity, marital status, smoking, alcohol use, drug use, depression (EPDS ≥ 9), history of chronic disease, and stress (PSS4 ≥ 5).

Policy Implications

- Screener is a requirement for EPS services
- Reimbursement for screener completion
- Pilot integration of screener with WIC assessment
- Move to web-based screener
- Evaluation of screener performance
- Coordination with other EPS type programs (Healthy Start, Early HS)

For Further Information

Copy of the screener (form number MSA 1200):

http://michigan.gov/mdch/0,1607,7-132-2945_5100-43782--,00.html

Michigan Families Medicaid Project Reports and Other Information:

<http://www.ihcs.msu.edu/MichiganFamiliesMedicaidProjectdefault.htm>

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