Healthcare Providers' Perceptions of Pregnant Women

ALLISON GODERWIS, M.S.

Method: Sampling

❖ Open records requests
- OBGYN residents and nurse–midwifery students
- University of Kentucky nursing and medical students

❖ 3,031 healthcare students or residents contacted
- ❖ 14% response rate

Method: Sample

Demographics ($N = 421$)	
Female	80.0%
Heterosexual	91.1%
White (non-Hispanic)	82.2%
Protestant	42.4%
Bachelors or higher	59.2%
Unintended pregnancy	
Self	12.5%
Family member or friend	57.8%

Professional Status	
Nursing student	39.9%
Medical student	21.4%
OBGYN resident	5.2%
Nurse–midwifery student	3.8%
"Other"	31.4%

Method: MSFV

❖ Multiple segment factorial vignette

❖ Four variables (age, race/ethnicity, marital status, SES) were randomly manipulated and embedded into multiple vignette segments
  ○ 3 x 3 x 2 x 2

❖ Attribution Questionnaire (AQ; Corrigan, Markowitz, Watson, Rowan, & Kubiak, 2003)
  ◦ Modification: items from four of the seven original subscales
    ▪ Pity, anger, personal responsibility, and helping behaviors

❖ After each segment, respondent could explain what they would tell the pregnant woman and answer AQ items

Segment 1

María/Aaliyah/Sarah is *a/an* **18/26/40**-year-old **Hispanic/Black/White** woman who came into the clinic for her women's health exam. She explains to you, her healthcare provider, that she is concerned because she has not had a menstrual cycle for several months. Upon gathering more information from *María/Aaliyah/Sarah,* you decide to give her a pregnancy test because she is currently sexually active. The results of the pregnancy test are positive. *María/Aaliyah/Sarah* was not expecting to be pregnant at this time and she is visibly distraught about the results.

Segment 2

Upon further discussion, *María/Aaliyah/Sarah* explains that she is **married/not married** to the father of the baby. However/Further, **she is unemployed with no health insurance and therefore does not believe/employed with health insurance and therefore believes** that she will able to provide financially for the baby if she chooses to keep it.

How Likely Are Respondents to Help?

Ordinal Logistic Regression Predicting Amount of Help Respondent Would Provide

Predictor	Segment 1					Segment 2				
	B	SE	p	OR	95% CI	B	SE	p	OR	95% CI
IV1: 18 years of age (26 years)	-0.01	0.26	.958	0.99	[0.59, 1.65]	-0.08	0.27	.756	0.92	[0.54, 1.56]
IV1: 40 years of age (26 years)	-0.41	0.26	.117	0.67	[0.40, 1.11]	-0.46	0.27	.087	0.63	[0.38, 1.07]
IV2: Hispanic (White, non-Hispanic)	0.29	0.26	.271	1.34	[0.80, 2.24]	0.34	0.47	.469	1.40	[0.56, 3.51]
IV2: Black, non-Hispanic (White, non-Hispanic)	0.35	0.26	.178	1.41	[0.85, 2.33]	0.22	0.47	.644	1.24	[0.49, 3.14]
IV3: Married (unmarried)						-0.79	0.37	.032	0.46	[0.22, 0.93]
IV4: Low SES (not low SES)						0.11	0.36	.753	1.12	[0.55, 2.27]
Interactions										
Black, non-Hispanic x Marital status						1.56	0.52	.003	4.77	[1.71, 13.29]
Black, non-Hispanic x SES						-1.10	0.53	.039	0.33	[0.12, 0.95]
Respondent Characteristics										
Respondent had unplanned pregnancy (no experience)	-0.19	0.35	.584	0.25	[0.42,1.63]	-0.23	0.35	.516	0.80	[0.40, 1.58]
Friend/ family had unplanned pregnancy (no experience)	0.17	0.24	.488	0.83	[0.74,1.88]	0.24	0.24	.331	1.27	[0.79, 2.04]
Gender identity (female)	-0.50	0.25	.045	0.61	[0.37, 0.99]	-0.57	0.26	.026	0.57	[0.34, 0.94]
Asian (White, non-Hispanic)	-1.34	0.44	.002	0.26	[0.11, 0.61]	-1.38	0.44	.002	0.25	[0.11, 0.60]
Black, non-Hispanic (White, non-Hispanic)	-0.47	0.50	.355	0.63	[0.23, 1.68]	-0.61	0.51	.231	0.54	[0.20, 1.47]
Hispanic (White, non-Hispanic)	-0.81	0.47	.086	0.44	[0.18,1.12]	-1.16	0.49	.018	0.31	[0.12, 0.82]
General Health Providers (nurse-midwife, OBGYN)	-1.40	0.51	.006	0.25	[0.09, 0.67]	-1.48	0.52	.005	0.23	[0.08, 0.64]
Catholic (atheist)	-0.32	0.42	.446	0.72	[0.32, 1.66]	-0.34	0.44	.440	0.71	[0.30, 1.68]
Protestant (atheist)	-0.19	0.41	.649	0.83	[0.37, 1.85]	-0.13	0.42	.749	0.87	[0.38, 1.99]
Agnostic (atheist)	0.29	0.49	.549	1.34	[0.51, 3.50]	0.37	0.50	.457	1.45	[0.54, 3.89]

Note. Reference category in parentheses. CI = confidence interval for odds ratio (OR).

Black x Marital status: when unmarried, less likely to help Black than White pregnant woman (no difference when married)

Black x SES: when not low SES, less likely to help White than Black pregnant woman (no difference when low SES)

How Much Pity Do Respondents Feel?

Ordinal Logistic Regression Predicting Amount of Pity Respondent Would Feel

Predictor	Segment 1					Segment 2				
	B	*SE*	*p*	*OR*	95% CI	*B*	*SE*	*P*	*OR*	95% CI
IV1: 18 years of age (26 years)	0.13	0.12	.292	1.14	[0.89, 1.46]	0.17	0.36	.633	1.19	[0.59, 2.41]
IV1: 40 years of age (26 years)	-0.10	0.13	.421	0.90	[0.70, 1.16]	-0.54	0.38	.154	0.58	[0.28, 1.23]
IV2: Hispanic (White, non-Hispanic)	0.07	0.13	.593	1.07	[0.83, 1.35]	-0.09	0.38	.815	0.91	[0.43, 1.94]
IV2: Black, non-Hispanic (White, non-Hispanic)	0.05	0.12	.665	1.06	[0.83, 1.35]	-0.29	0.36	.416	0.75	[0.37, 1.51]
IV3: Married (unmarried)						-1.03	0.26	< .001	0.36	[0.22, 0.59]
IV4: Low SES (not low SES)						0.07	0.24	.786	1.07	[0.66, 1.73]
Interactions										
Marital status x SES						1.02	0.35	.004	2.78	[1.39, 5.53]
Respondent Characteristics										
Respondent had unplanned pregnancy (no experience)	-0.06	0.17	.735	0.94	[0.67, 1.32]	-0.30	0.30	.311	0.74	[0.41, 1.32]
Friend/ family had unplanned pregnancy (no experience)	0.03	0.12	.822	1.03	[0.82, 1.29]	0.29	0.20	.145	1.34	[0.90, 1.98]
Gender identity (female)	-0.04	0.13	.755	0.96	[0.75, 1.23]	-0.12	0.22	.584	0.89	[0.58, 1.36]
Asian (White, non-Hispanic)	-0.09	0.23	.709	0.92	[0.58, 1.45]	-0.12	0.40	.770	0.89	[0.40, 1.96]
Black, non-Hispanic (White, non-Hispanic)	-0.35	0.25	.163	0.70	[0.43, 1.15]	-0.38	0.44	.386	0.68	[0.29, 1.61]
Hispanic (White, non-Hispanic)	0.04	0.25	.887	1.04	[0.64, 1.68]	0.26	0.42	.540	1.30	[0.56, 2.98]
General health providers (nurse-midwife, OBGYN)	-0.28	0.18	.121	0.75	[0.53, 1.08]	-0.64	0.31	.041	0.53	[0.28, 0.97]
Catholic (atheist)	-0.38	0.21	.069	0.69	[0.46, 1.03]	-0.41	0.35	.244	0.67	[0.34, 1.32]
Protestant (atheist)	-0.30	0.20	.127	0.74	[0.50, 1.09]	-0.29	0.33	.380	0.75	[0.39, 1.43]
Agnostic (atheist)	-0.16	0.23	.496	0.85	[0.54, 1.34]	0.07	0.39	.866	1.07	[0.50, 2.30]

Note. Reference category in parentheses. CI = confidence interval for odds ratio (OR).

Low SES: more pity for married than unmarried pregnant woman

Not low SES: more pity for unmarried than married pregnant woman

How Responsible is She?

Ordinal Logistic Regression Predicting Amount of Responsibility Respondent Would Attribute

Predictor	Segment 1					Segment 2				
	B	SE	p	OR	95% CI	B	SE	p	OR	95% CI
IV1: 18 years of age (26 years)	-0.10	0.12	.434	0.91	[0.71, 1.16]	-0.19	0.21	.378	0.83	[0.55, 1.26]
IV1: 40 years of age (26 years)	-0.09	0.13	.488	0.92	[0.71, 1.17]	0.03	0.22	.875	1.03	[0.68, 1.58]
IV2: Hispanic (White, non-Hispanic)	-0.08	0.13	.508	0.92	[0.72, 1.18]	0.12	0.22	.579	1.13	[0.74, 1.73]
IV2: Black, non-Hispanic (White, non-Hispanic)	-0.11	0.12	.372	0.90	[0.70, 1.14]	0.07	0.21	.741	1.07	[0.71, 1.62]
IV3: Married (unmarried)						0.02	0.17	.889	1.02	[0.73, 1.44]
IV4: Low SES (not low SES)						-0.05	0.17	.773	0.95	[0.68, 1.34]
Respondent characteristics										
Respondent had unplanned pregnancy (no experience)	0.02	0.17	.909	1.02	[0.73, 1.43]	-0.13	0.30	.661	0.88	[0.49, 1.57]
Friend/ family had unplanned pregnancy (no experience)	0.29	0.12	.011	1.34	[1.07, 1.68]	0.45	0.20	.023	1.57	[1.07, 2.32]
Gender identity (female)	0.25	0.13	.048	1.29	[1.00, 1.66]	0.54	0.22	.014	1.71	[1.11, 2.62]
Asian (White, non-Hispanic)	-0.67	0.23	.004	0.51	[0.33, 0.81]	-0.44	0.40	.271	0.65	[0.30, 1.41]
Black, non-Hispanic (White, non-Hispanic)	0.08	0.25	.742	1.09	[0.66, 1.79]	0.28	0.43	.521	1.32	[0.56, 3.09]
Hispanic (White, non-Hispanic)	0.20	0.25	.422	1.22	[0.75, 1.98]	0.53	0.42	.211	1.70	[0.74, 3.88]
General Health Providers (nurse-midwife, OBGYN)	0.23	0.18	.201	1.25	[0.89, 1.78]	0.56	0.31	.069	1.74	[0.96, 3.17]
Catholic (atheist)	0.12	0.20	.565	1.12	[0.75, 1.67]	0.56	0.35	.109	1.75	[0.88, 3.48]
Protestant (atheist)	0.17	0.19	.371	1.19	[0.81, 1.74]	0.87	0.34	.009	2.39	[1.24, 4.61]
Agnostic (atheist)	-0.21	0.23	.359	0.81	[0.52, 1.27]	0.62	0.39	.114	1.86	[0.86, 3.99]

Note. Reference category in parentheses. CI = confidence interval for odds ratio (OR).

How Much Anger is Expressed?

Binary Logistic Regression Predicting Amount of Anger Respondent Would Feel

Predictor	Segment 1					Segment 2				
	B	*SE*	*p*	*OR*	95% CI	*B*	*SE*	*p*	*OR*	95% CI
IV1: 18 years of age (26 years)	-0.16	0.25	.524	0.85	[0.52, 1.39]	-0.15	0.26	.554	0.86	[0.52, 1.43]
IV1: 40 years of age (26 years)	-0.35	0.27	.167	0.70	[0.43, 1.16]	0.00	0.26	.995	1.00	[0.60, 1.68]
IV2: Hispanic (White, non-Hispanic)	0.19	0.26	.469	1.20	[0.73, 1.99]	0.03	0.27	.926	1.03	[0.61, 2.13]
IV2: Black, non-Hispanic (White, non-Hispanic)	0.02	0.25	.924	1.02	[0.63, 1.68]	0.10	0.26	.703	1.12	[0.66, 1.84]
IV3: Married (unmarried)						-0.19	0.21	.367	0.83	[0.54, 1.25]
IV4: Low SES (not low SES)						0.73	0.22	.001	2.07	[1.35, 3.15]
Respondent characteristics										
Respondent had unplanned pregnancy (no experience)	-0.48	0.35	.173	0.62	[0.31, 1.23]	-0.54	0.37	.147	0.58	[0.28, 1.21]
Friend/family had unplanned pregnancy (no experience)	-0.39	0.23	.092	0.68	[0.43, 1.07]	0.02	0.24	.934	1.02	[0.64, 1.63]
Gender identity (Female)	0.21	0.26	.417	1.24	[0.74, 2.06]	0.36	0.27	.179	1.43	[0.85, 2.40]
Asian (White, non-Hispanic)	-0.48	0.47	.313	0.62	[0.25, 1.57]	-0.24	0.49	.622	0.79	[0.30, 2.06]
Black, non-Hispanic (White, non-Hispanic)	0.79	0.54	.142	2.21	[0.77, 6.37]	1.07	0.54	.046	2.91	[1.02, 8.33]
Hispanic (White, non-Hispanic)	0.08	0.49	.867	1.09	[0.42, 2.84]	0.99	0.51	.054	2.69	[0.99, 7.34]
General health providers (nurse-midwife, OBGYN)	-0.30	0.36	.405	0.74	[0.36, 1.51]	0.22	0.38	.575	1.24	[0.59, 2.63]
Catholic (atheist)	0.41	0.42	.325	1.51	[0.67, 3.43]	-0.54	0.42	.196	0.58	[0.26, 1.32]
Protestant (atheist)	0.84	0.42	.045	2.34	[1.02, 5.27]	-0.05	0.42	.900	0.95	[0.42, 2.14]
Agnostic (atheist)	0.07	0.47	.887	1.07	[0.43, 2.68]	-0.70	0.48	.142	0.50	[0.20, 1.26]

Note. Reference category in parentheses. CI = confidence interval for odds ratio (OR).

Open-ended Suggestions

*Open-ended Responses (*N = 421)

	Segment 1		Segment 2	
	n	%	*n*	%
Discuss options	207	49.2	65	15.4
Support and understanding	167	39.7	49	11.6
Resources for support	113	26.8	195	46.3
Thoughts and feelings	89	21.1	11	2.6
Encourage patient to process	87	20.7	21	5.0
Suggest further medical care	79	18.8	35	8.3
Discuss termination	72	17.1	47	11.2
Discuss adoption	65	15.4	82	19.5
Carry pregnancy to term	58	13.8	74	17.6
Educate	57	13.5	55	13.1
Gather more information	50	11.9	30	7.1
Explain results	39	9.3	1	0.2
Ask about support system	31	7.4	27	6.4
Discuss/consult with close others	31	7.4	4	1.0
Answer questions	30	7.1	10	2.4
Positivity about pregnancy	17	4.0	30	7.1
Ask about baby's father	16	3.8	51	12.1
High-risk	11	2.6	2	0.5
Unbiased communication	10	2.4	3	0.7
Make her own decisions	4	1.0	40	9.5

Conclusion

❖ Impact of respondent characteristics

❖ Statistical differences based on marital status and employment/insurance status

❖ Generally positive and supportive open-ended responses