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Comparison of a Person-Centered Pregnancy Prevention Question and One Key Question® to Assess Postpartum Contraceptive Needs

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- 3 Question[®] to Assess Postpartum Contraceptive Needs 4

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- 35
- 36
- 37 38

- 39 Abstract

41	Introduction: Pregnancy intention is widely used to screen for contraceptive
42	needs, yet its relevance to postpartum individuals has not been demonstrated.
43	
44	Methods: We surveyed 234 postpartum individuals to assess the alignment
45	between pregnancy intentions in the next year and current desire to prevent
46	pregnancy.
47	
48	Results: Most individuals (87%) desired pregnancy prevention now, including 73%
49	of individuals who desired or were ambivalent about pregnancy in the next year.
50	
51	Conclusion: A majority of individuals considering pregnancy in the next year
52	desired pregnancy prevention now. Directly assessing current desire to prevent
53	pregnancy may be more specific for contraceptive needs in postpartum individuals.
54	
55	
56	Keywords
57	Contraception, family planning, postpartum, patient-centered care, health services
58	research
59	
60	
61	Abbreviations
62	OKQ = One Key Question®
63	CI = confidence interval
64	

66 Introduction

67

68 Addressing postpartum contraceptive needs is a critical component of perinatal care 69 that can help to optimize birth outcomes, including by preventing undesired 70 pregnancies with short interpregnancy intervals [1]. A prominent approach to 71 determining need for contraceptive care has been to assess pregnancy intention in 72 the next year, including in postpartum individuals [2,3]. One Key Question® (OKQ) 73 is an increasingly utilized means of assessing pregnancy intention in the next year 74 [4]. However, OKQ, or pregnancy intention screening more broadly, have not been 75 found to have a consistently positive impact on patient experience, provision of 76 reproductive health services, or health outcomes [5–9]. Additionally, since inquiring 77 about pregnancy intentions in the next year does not directly assess current desire 78 to prevent pregnancy, clinicians may need to ask follow-up questions to clarify 79 ambivalence and current health care needs [10]. Further, pregnancy intention is a 80 complex and dynamic personal decision affected by many contextual factors that 81 may be beyond the scope of a medical visit [11]. Additionally, not everyone relates 82 to the concept of pregnancy planning [12]. Importantly, individuals who are 83 ambivalent about future pregnancy or are planning pregnancy may still desire to 84 use contraception, which clinicians could potentially miss if solely using pregnancy 85 intention to identify care needs [13]. Understanding the relationship between 86 pregnancy intention in the next year and current desire to prevent pregnancy in the 87 postpartum population can help inform effective and patient-centered interventions 88 to optimize the delivery of postpartum contraceptive care. We therefore conducted 89 a cross-sectional survey of postpartum individuals, asking both pregnancy intention 90 in the next year and current desire to prevent pregnancy.

91

92 Methods

93

94 We surveyed 234 English or Spanish-speaking individuals who were 2-6 months 95 postpartum. Recruitment and data collection occurred at three pediatric primary 96 care clinics in the San Francisco Bay Area, California that serve socioeconomically, 97 racially, and ethnically diverse populations. Data collection occurred during July 98 2019-October 2020. Before March 2020, we recruited and administered electronic 99 surveys in-person at well-child visits. Recruitment after March 2020 occurred by 100 phone due to COVID-19 restrictions. We called eligible individuals up to three times 101 within a week of their infants' well-child visit and verbally administered surveys. 102 Participants received \$25 gift cards. We obtained informed consent prior to study 103 procedures. The Institutional Review Board at the University of California, San 104 Francisco approved the study.

105

106 Sociodemographic variables included self-reported age, race and ethnicity, and 107 insurance type, as detailed in a prior publication [14]. We assessed desire to 108 prevent pregnancy with an item previously used in statewide surveys, "Do you want 109 to prevent pregnancy now?" with five response choices: Yes, I am already doing 110 something to prevent pregnancy; Yes, I want to start preventing pregnancy; No, I 111 don't want to prevent pregnancy; I am unsure whether I want to prevent pregnancy; 112 and This question does not apply to me [15]. We measured pregnancy intention 113 using OKQ: "Would you like to become pregnant in the next year?" with four 114 response choices: Yes, No, Unsure, and OK either way. We assessed pregnancy 115 acceptability using, "How would you feel if you got pregnant in the next year?" with 116 six response choices: Very upset, Somewhat upset, Not sure, I wouldn't mind, 117 Somewhat pleased, and Very pleased.

118

119

120 desire to prevent pregnancy now and pregnancy intention responses as Yes, 121 Ambivalent, or No and cross-tabulated frequencies (n) and relative frequencies (%). 122 We cross-tabulated pregnancy prevention now and pregnancy intention and 123 computed the 95% confidence interval (CI) for the difference in proportions. 124 125 Results 126 127 Of 305 individuals contacted, 263 (86%) participated. We excluded 29 individuals 128 whose response to a primary outcome was "does not apply" or missing, resulting in 129 a sample size of 234. Excluded individuals did not differ from individuals included in 130 the final analytic sample in terms of age, race, ethnicity, or insurance type. 131 Participants included in the final analytic sample were on average 32 years (range 132 17-51 years) and self-identified as Asian 15%, Black 10%, Hispanic/Latina 37%, 133 White 28%, or multiracial or other 10%. Insurance type was commercial 60%, public 134 38%, or uninsured 2%. 135 136 Most individuals (171 of 234; 73%) did not want to become pregnant in the next 137 year, and 87% stated they wished to prevent pregnancy now -- a 14% (95% Cl 7, 138 21%) difference (Table 1). Of the 63 who wished to become pregnant in the next 139 year or were ambivalent about pregnancy, 73% desired pregnancy prevention now, 140 while among those not desiring pregnancy, 92% desired pregnancy prevention. The 141 proportion of individuals with ambivalence about pregnancy in the next year was

We conducted descriptive analysis of sociodemographic variables. We categorized

142 greater than the proportion with ambivalence about current desire to prevent

143 pregnancy (21% vs. 5% -- a 16% (95% CI 10, 22) difference. Pregnancy 6

- acceptability was highly variable among participants who were not planning apregnancy or who were ambivalent (Figure 1).
- 146

147 **Discussion**

148

149 In this study, almost three quarters of individuals who would consider pregnancy in 150 the next year still desired pregnancy prevention. This finding demonstrates the 151 potential limitation of pregnancy intention screening for identifying current 152 pregnancy prevention needs. Determining current needs is particularly important 153 given the benefit of preventing undesired, shortly spaced pregnancies [1], 154 especially with the present lack of abortion access in much of the United States 155 [16]. We found a high degree of ambivalence about pregnancy intentions and 156 substantial variability in pregnancy acceptability across pregnancy intention groups, 157 which aligns with literature on the complexity of pregnancy perceptions [17]. These 158 results call into question the focus primarily on pregnancy intention by postpartum 159 care providers aiming to identify current contraceptive needs. Furthermore, we 160 posit that the clinician role should not be to resolve ambivalence about the personal 161 decision to plan or to not plan a pregnancy, but rather to assess the current desire 162 for pregnancy prevention. Shifting provider focus to patients' current needs can 163 generate more actionable clinical information for contraceptive counseling and is 164 more consistent with diverse patient perspectives on family planning [12]. 165

166 Pregnancy intention may have utility in public health and research contexts,

167 however for clinical purposes, directly assessing current contraceptive needs is a

168 more person-centered and directly actionable construct. This may be especially true

169 during the postpartum months, which is a time of significant transition, when 7 170 preferences about desired family size and birth spacing may evolve. Additionally, 171 assessing current desire to prevent pregnancy may be more clinically expedient 172 given the relatively low rate of ambivalence, compared to the more complex topic 173 of pregnancy intention [18].

174

175 Our findings should be interpreted considering study limitations, including possible

176 social desirability bias, e.g., overreporting desire to use contraception among

177 women not intending pregnancy in response to normative expectations about

178 pregnancy prevention. The context of declining pregnancy intentions during the

179 early pandemic may also have affected survey responses, as well as what

180 participants may have perceived as socially desirable responses.[19] Additionally,

181 there may be limited generalizability to other populations or regions due to

182 differences in the barriers and facilitators to accessing health care.

183

184 Our ability to ensure that all individuals who want to prevent pregnancy have

185 access to contraception depends on the use of effective screening questions. These

186 findings prompt consideration of broader clinical implementation of screening for

187 desire to prevent pregnancy in lieu of guestions about pregnancy intention in the

188 next year.

189

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191

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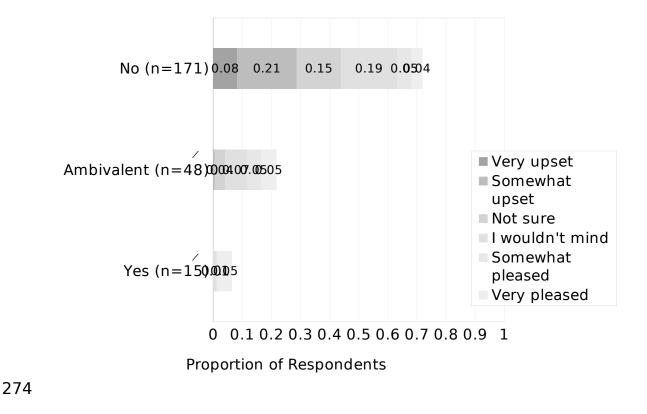
266 **Tables and Figures**

- 267
- 268 **Table 1.** Cross-tabulation of Pregnancy Intention in Next Year (One Key Question®)
- and Current Desire to Prevent Pregnancy, among 2-6 Month Postpartum Individuals
- 270 in California 2019-2020 (n=234)
- 271

Pregnancy	One Key Question®:			
Prevention Now	"Would you like to become pregnant in the next year?"			
"Do you want to	Yes, want to		No, do not want	
prevent pregnancy	become	Ambivalent	to become	Total
now?"	pregnant in next		pregnant in next	
	year		year	
		n		n
	n	% (95% CI)	n	% (95% CI)
	% (95% CI)		% (95% CI)	
Yes, want to	9	37	158	204
prevent pregnancy	60% (35%-	77% (63%-	92% (87%-	204
now	81%)	87%)	96%)	87% (82%-91%)
	1	4	6	11
Ambivalent	7% (1%-35%)	8% (3%-20%)	4% (2%-8%)	5% (3%-8%)
No, do not want to	5	7	7	19
prevent pregnancy	33% (15%-	15% (7%-	7 4% (2%-8%)	19 8% (5%-12%)
now	60%)	28%)		
Total	15	48	171	234
	6% (4%-10%)	21% (16%-26%)	73% (67%-78%)	

CI=confidence interval; Response choices for current pregnancy prevention (*Do* you want to prevent pregnancy now?) included: Yes, I am already doing something to prevent pregnancy; Yes, I want to start preventing pregnancy; No, I don't want to prevent pregnancy; I am unsure whether I want to prevent pregnancy (labeled Ambivalent in the table); and This question does not apply to *me*. Response choices for OKQ (*Would you like to become pregnant in the next year?*) *included*: Yes, No, Unsure, and OK either way (Ambivalent defined as Unsure or OK either way).

- 272 Figure 1. Pregnancy Acceptability by Pregnancy Intention in the Next Year, among
- 273 2-6 Month Postpartum Individuals in California 2019-2020 (n=234)



- 275
- 276 Pregnancy Intention assessed using One Key Question®, "Would you like to become
- 277 pregnant in the next year?" with four response choices: Yes, No, Unsure, and OK
- 278 either way (Unsure and OK either way were collapsed into an Ambivalent category);
- 279 Pregnancy Acceptability assessed using "How would you feel if you got pregnant in

280 the next year?"