

GYNECOLOGY

Contraception after medication abortion in the United States: results from a cluster randomized trial

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BACKGROUND: Understanding how contraceptive choices and access differ for women having medication abortions compared with aspiration procedures can help to identify priorities for improved patient-centered postabortion contraceptive care.

OBJECTIVE: The objective of this study was to investigate the differences in contraceptive counseling, method choices, and the use between medication and aspiration abortion patients.

STUDY DESIGN: This subanalysis examines data from 643 abortion patients from 17 reproductive health centers in a cluster, randomized trial across the United States. We recruited participants aged 18–25 years who did not desire pregnancy and followed them up for 1 year. We measured the effect of a full-staff contraceptive training and abortion type on contraceptive counseling, choice, and use with multivariable regression models, using generalized estimating equations for clustering. We used a survival analysis with shared frailty to model actual intrauterine device and subdermal implant initiation over 1 year.

RESULTS: Overall, 26% of participants ($n = 166$) had a medication abortion and 74% ($n = 477$) had an aspiration abortion at the enrollment visit. Women obtaining medication abortions were as likely as those having aspiration abortions to receive counseling on intrauterine devices or the implant (55%) and on a short-acting hormonal method (79%). The proportions of women choosing to use these methods (29% intrauterine device or implant, 58% short-acting hormonal) were also similar by abortion type. The proportions of women who actually used short-acting hormonal methods (71% medication vs 57% aspiration) and condoms

or no method (20% vs 22%) within 3 months were not significantly different by abortion type. However, intrauterine device initiation over a year was significantly lower after the medication than the aspiration abortion (11 per 100 person-years vs 20 per 100 person-years, adjusted hazard ratio, 0.50; 95% confidence interval, 0.28–0.89). Implant initiation rates were low and similar by abortion type (5 per 100 person-years vs 4 per 100 person-years, adjusted hazard ratio, 2.41; 95% confidence interval, 0.88–6.59). In contrast to women choosing short-acting methods, relatively few of those choosing a long-acting method at enrollment, 34% of medication abortion patients and 53% of aspiration abortion patients, had one placed within 3 months. Neither differences in health insurance nor pelvic examination preferences by abortion type accounted for lower intrauterine device use among medication abortion patients.

CONCLUSION: Despite similar contraceptive choices, fewer patients receiving medication abortion than aspiration abortion initiated intrauterine devices over 1 year of follow-up. Interventions to help patients receiving medication abortion to successfully return for intrauterine device placement are warranted. New protocols for same-day implant placement may also help patients receiving medication abortion desiring a long-acting method to receive one.

Key words: abortion, implant, intrauterine device, long-acting reversible contraception, medical abortion, medication abortion, postabortion contraception, randomized trial

Medication abortion accounts for almost one third of nonhospital abortions in the United States.¹ The method can improve access in settings without an aspiration abortion provider, and some women prefer a procedure that seems more natural or that affords more privacy and autonomy.^{2,3}

Medication abortion (MAB), however, presents unique challenges for providing the full range of contraceptives, particularly long-acting reversible

methods, intrauterine devices (IUDs), and subdermal implants. All non-permanent methods, including long-acting reversible contraceptives (LARCs), can be provided safely the same day as aspiration abortion.^{4–6} Yet until recently, following MAB, all long-acting methods have required a second visit. IUDs cannot be placed until the abortion is deemed complete at a follow-up visit, and patients frequently do not return.^{7–10} Implants too have traditionally been placed at follow-up, although new data support placement at the mifepristone visit.^{11,12}

There is a gap in the medical literature about contraceptive care after a medication abortion compared with post-aspiration abortion. It remains unknown whether counseling received, choices made, or contraceptive use differs by

abortion type and, if so, why. Medication and aspiration abortion patients may be different, hold varying preferences for reproductive health care, and choose different methods. They may also receive different contraceptive counseling or have disparate access to selected methods.

We examined postmedication and aspiration abortion contraceptive care with data from a large, US-based cluster randomized trial evaluating the impact of a provider training about LARC on women's contraceptive use and pregnancy. In prior analyses, abortion patients at intervention sites were more likely than women at control sites to receive counseling on and to choose long-acting methods; however, they were not more likely to actually initiate these methods, largely because of

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111 funding barriers at abortion visits, and
112 experienced high pregnancy rates over
113 follow-up.^{13,14}

114 This subanalysis assesses differences
115 in contraceptive care and use among 643
116 abortion patients in the trial. Under-
117 standing how care and use differ for
118 women having MABs compared with
119 aspiration abortions can help to identify
120 priorities for improved patient-centered
121 contraceptive care.

122 Materials and Methods

123 Study design and procedures

124 We conducted a cluster randomized trial
125 with 40 Planned Parenthood health
126 centers, described previously.^{13,14}
127 Clinics, which served low-income and
128 diverse populations, were randomly
129 allocated to receive LARC training or
130 provide standard care. In this post hoc
131 subanalysis, we examined data from the
132 participants at the 17 sites providing
133 abortion care across 10 geographically
134 diverse states (California, Colorado,
135 Connecticut, Florida, Idaho, Minnesota,
136 North Carolina, Ohio, Pennsylvania, and
137 Washington).

138 At intervention clinics, staff partici-
139 pated in a half-day, continuing medical
140 education—accredited training on LARC
141 evidence, including contraceptive effec-
142 tiveness, and eligibility, including same-
143 day placement.^{4,15} The training covered
144 patient-centered counseling skills and
145 ethical issues specific to LARC, such as
146 removal when desired.¹⁶ Clinicians
147 received hands-on IUD training with
148 models and implant trainings with the
149 manufacturer. All sites maintained usual
150 contraceptive costs and coverage.

151 Following training at intervention
152 sites, we recruited patients from study
153 clinics between May 2011 and March
154 2012 and followed them up for 1 year.
155 Eligible women were aged 18–25 years,
156 were sexually active, received contra-
157 ceptive counseling, and did not desire
158 pregnancy within a year.

159 At the 17 sites providing abortion care,
160 patients were eligible to enroll on the
161 day of an aspiration abortion or MAB
162 initiation. After providing informed
163 consent and receiving contraceptive
164 counseling, participants completed a self-
165 administered questionnaire documenting
166

167 contraceptive history and methods dis-
168 cussed and chosen at the visit. Providers
169 recorded abortion type and gestation on
170 a visit summary.

171 Participants completed online or
172 phone follow-up questionnaires quar-
173 terly for 1 year and did home urine
174 pregnancy tests (AccuHome; Germaine
175 Laboratories, San Antonio, TX) at 6 and
176 12 months. Participants received \$20 per
177 questionnaire and \$30 per pregnancy
178 test completed. Investigators conducted
179 medical record reviews at year end.

180 Ethical approval was obtained from
181 the Committee on Human Research of
182 the University of California, San Fran-
183 cisco, and the Allendale Investigational
184 Review Board.

185 Measures

186 Outcomes

187 We measured contraceptive counseling
188 with baseline participant survey ques-
189 tions as to whether a nurse, doctor, or
190 staff member had discussed each
191 method during the abortion visit. We
192 created a series of variables capturing
193 methods discussed: long-acting and
194 short-acting hormonal method (pills,
195 transdermal patch, vaginal ring, and
196 depot medroxyprogesterone acetate
197 injection [DMPA]); condom; and none.

198 To measure the method choice, we
199 asked which method, if any, participants
200 decided to use after an abortion. We
201 created a categorical variable (long
202 acting, short acting, condom/none); the
203 few women selecting more than 1
204 method were categorized according to
205 the more effective method. We also
206 examined counseling and choice of the
207 IUD and, separately, the implant, given
208 that provider counseling on, and patient
209 preference for, the 2 methods might
210 differ by abortion type.

211 We captured contraceptive methods
212 actually initiated in 2 ways. First, to
213 assess the most effective contraceptive
214 method used within 3 months of
215 enrollment, we used data from quar-
216 terly follow-up surveys assessing contra-
217 ceptive method use in the preceding
218 quarter. Data were available for partici-
219 pants completing at least 1 follow-up
220 interview. Second, for the full sample,
221 we used medical records data in addition to

222 surveys to document IUD and implant
223 placements over 1 year. Data on follow-
224 up MAB visits within 7–28 days were
225 also abstracted from medical records.
226 Finally, we captured incident pregnan-
227 cies using quarterly surveys, medical re-
228 cords, and urine pregnancy tests, dating
229 them from the last menstrual period.

230 Independent variables

231 The primary independent variable was
232 the participant's abortion type (medica-
233 tion, aspiration). All models included
234 the study arm (intervention, control).
235 We included baseline control variables
236 selected a priori as associated with con-
237 traceptive use, including age, race/
238 ethnicity, parity, and contraceptive use
239 within 3 months of enrollment.

240 We also assessed how women would
241 feel if they became pregnant within the
242 year (very unhappy/unhappy, happy/very
243 happy). Given prior analyses showing the
244 importance of funding for LARC use,^{13,17}
245 we assessed participant health insurance
246 (public [Medicaid, other state program],
247 private, no insurance, do not know) as
248 well as 3 site-level funding policy vari-
249 ables: whether the site was in a state with
250 a family-planning Medicaid expansion
251 program, Medicaid coverage of abortion,
252 and mandated private insurance contra-
253 ceptive coverage.¹⁸

254 We also examined whether the site
255 provided immediate postaspiration
256 abortion LARC. To investigate whether
257 differences in contraception by abortion
258 type might be attributable to patient
259 preferences around pelvic examinations
260 (which might affect choice of both
261 contraception and MAB), we asked
262 participants whether they had ever
263 postponed going to a clinic for birth
264 control to avoid a pelvic examination.

265 Analysis

266 We investigated baseline differences in
267 participant characteristics by abortion
268 type using regression with generalized
269 estimated equations (GEE) for clus-
270 tering, with robust SEs. The model link
271 depended on the measure of the char-
272 acteristic (eg, a logit link was used for
273 dichotomous characteristics). To
274 examine contraceptive methods dis-
275 cussed in counseling by abortion type,

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