

ACOG 2020 DISTRICT II VIRTUAL ANNUAL MEETING
Junior Fellow Research Day Oral Presentation and iPoster Session Contests

RESEARCH ABSTRACT FORM

NAME: Miriam Tarrash

RESEARCH TITLE: Do maternal fibroids impact NIPS results?

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INTRODUCTION: This study aimed to assess whether or not the presence of maternal fibroids had an influence on high risk noninvasive prenatal screening (NIPS) results.

METHODS: A retrospective cohort study was conducted to compare the accuracy of the NIPS results to the presence of maternal fibroids. Inclusion criteria were singleton pregnancies with high risk NIPS results, and accessible pregnancy outcome information.

RESULTS: Between March 2014 and August 2019, 11,880 prenatal patients had NIPS during prenatal care at Montefiore Medical Center. Of those, 171 patients had high risk results and 138 were eligible for the study. A total of 35.5% (49/138) of all high risk NIPS results were discordant and those patients ultimately had chromosomally normal babies. The mean total fibroid volume in the concordant NIPS group was 8.3 cm³ versus 25.7cm³ total fibroid volume in the discordant NIPS group (p = 0.216). The odds ratio of a discordant NIPS result among patients with fibroids was 3.486 (95% CI: 0.846, 14.354) times those without fibroids, adjusting for fetal fraction, maternal age, gestational age, BMI and race.

CONCLUSIONS: Although not statistically significant, women with fibroids have a higher chance of receiving discordant NIPS results.