OBJECTIVE:
Evaluate patient motivations for pursuing preimplantation genetic testing (PGT), insurance coverage implications and utility of PGT to their IVF cycle.

DESIGN:
In-vitro fertilization (IVF) can be combined with PGT. Patients seeking to reduce hereditary disease risk for monogenic disorders can pursue PGT-M. Those with an underlying structural chromosome rearrangement can opt to have embryos tested for unbalanced outcomes (PGT-SR). Additionally, patients undergoing IVF can screen their embryos for aneuploidy (PGT-A). Increased availability of testing requires providers to understand patient motivations, potential barriers and how to integrate PGT into an IVF cycle.

RESULTS:
Between April 2019 and May 2020, there were 169 respondents; 100 PGT-A only, 16 PGT-SR, and 53 PGT-M (with and without PGT-A).

Patients were asked whether PGT contributed to their deciding to pursue IVF. 38/51 (75%) of PGT-M patients and 10/16 (63%) PGT-SR patients stated that PGT was a “very important” factor in deciding to pursue IVF while PGT-A patients were less likely to pursue IVF for the purpose of performing PGT; 16/100 (16%) cited PGT as a reason for pursuing IVF.

MATERIALS AND METHODS:
• All patients undergoing pre-test genetic counseling through CooperGenomics were eligible to take a survey.
• Responses were collected in SurveyMonkey and then analyzed for themes.

CONCLUSIONS:
Overall, patients pursuing PGT-M and PGT-SR had similar goals for PGT. These patients report that PGT is a very important factor in deciding to pursue IVF and are more likely to pursue IVF without insurance coverage as compared to PGT-A patients. Importantly, insurance coverage is a main factor for the reason why patients without an underlying genetic condition or aberration may pursue PGT. Patients who are pursuing PGT-M or PGT-SR rate PGT as very important to their IVF cycle as it may be the only reason for pursuing IVF. Although PGT is an important reason for these patients to pursue IVF, the majority have not spoken with a genetic counselor regarding PGT yet found genetic counseling for PGT useful. It is important to understand the motivations of patients seeking IVF and utility of PGT for each patient.