

RUTGERS HEALTH The Boggs Center on Disability and Human Development

Robert Wood Johnson Medical School

BACKGROUND

- Genetic counseling was a profession born as a response to the eugenics movement, aimed at promoting individual reproductive autonomy (32).
- However, tensions between disability communities and genetic counselors continue through debates surrounding carrier screening, gamete donor exclusion criteria, and prenatal diagnosis (18, 23, 33).
- Genetic counseling is recommended when a patient is working with a gamete donor, yet the implementation of this service varies (4-7).
- Moreover, little is known about the perspectives and concerns of gamete donation recipients as they pursue this path to family-building (15, 16).
- The few studies that have explored these topics previously take a retrospective approach and highlight the complexity of recipient values, suggesting recipient risk perception may align or differ from that of established guidelines (15, 16-19).

STUDY QUESTIONS

- What is the perceived utility of genetic counseling for gamete recipients as they actively navigate their familybuilding journey?
- What are the experiences and attitudes of gamete recipients, and how does their perception of risk compare to the ASRM guidelines for gamete donation?

METHODS

- A prospective pilot survey was given to 11 gamete recipients after their genetic counseling appointment between June 20, 2024, and December 31, 2024.
- A chart review was conducted to abstract nonidentifiable demographic and clinical information.
- Descriptive statistics were generated for recipient survey responses, and a thematic analysis was conducted to extract commonalities in recipient openended responses.

THE ROLE AND IMPACT OF GENETIC COUNSELING IN FAMILY **BUILDING: DISABILITY CONSIDERATIONS**

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RESULTS

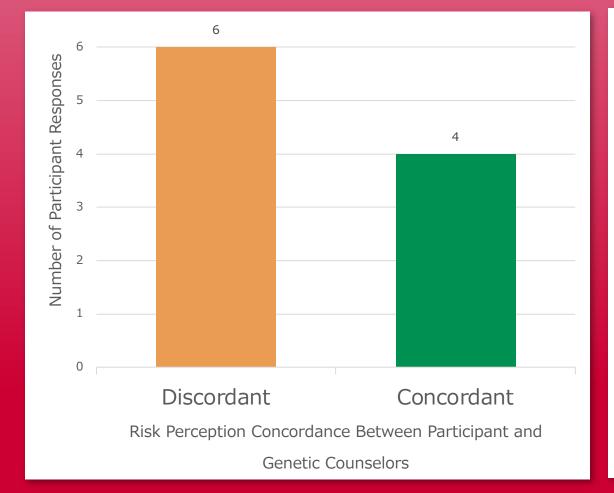
- The response rate of the survey was 14.5%, with most respondents identifying as white (64%) and female (82%) at an average age of 37.3 years old.
- 90.9% of participants indicated that discussing the donor's family history and genetic risk assessment was useful for their decision making, with all feeling this history would be important for their future child.
- 81.8% of participants shared that the genetic counseling session made more confident in their decision to pursue gamete donation.
- Participants expressed that the most important factors in their decision to work with a gamete donor are the donor's medical and psychological history and the donor's family and genetic history.
- Risk perceptions of donor family history between gamete recipients and genetic counselors as informed by ASRM guidelines demonstrated discordance.
- 90.9% expressed that they planned to proceed with the gamete donor(s) they discussed during their match consultation, with none feeling that a substantial genetic issue had been identified.

Table 1. Purpose and value of genetic counseling services to participants considering gamete donation

| Common Theme in Survey Responses | Illustrative Quote |
|--|---|
| Value of reviewing potential genetic risks revealed by testing results and family history intake in decision- making regarding working with a gamete donor | "We wanted more clarity on the specific genetic disorders that the donors were a carrier for. Genetic counseling helped us understand level of risk." |
| Appreciation of opportunity for nuanced discussion regarding donor anonymity and sharing child(ren)'s genetic origins | "I appreciate how the counselors made us think about the implicat of using a donor. How to tell our children, especially early so that normalize it." |
| Significance of knowledge and education as recipients navigate their fertility journey and prepare for the future | "[GC] ensures as much as possi known about the donor to give potential offspring the best chance a happy and healthy life." |
| Recognition of importance of genetic counseling, including as a part of standard protocol for gamete recipient donor selection | "I would recommend this to ever who is in the infertility and surrog journey." |



Figure 1. Gamete recipient values when considering gamete donor selection



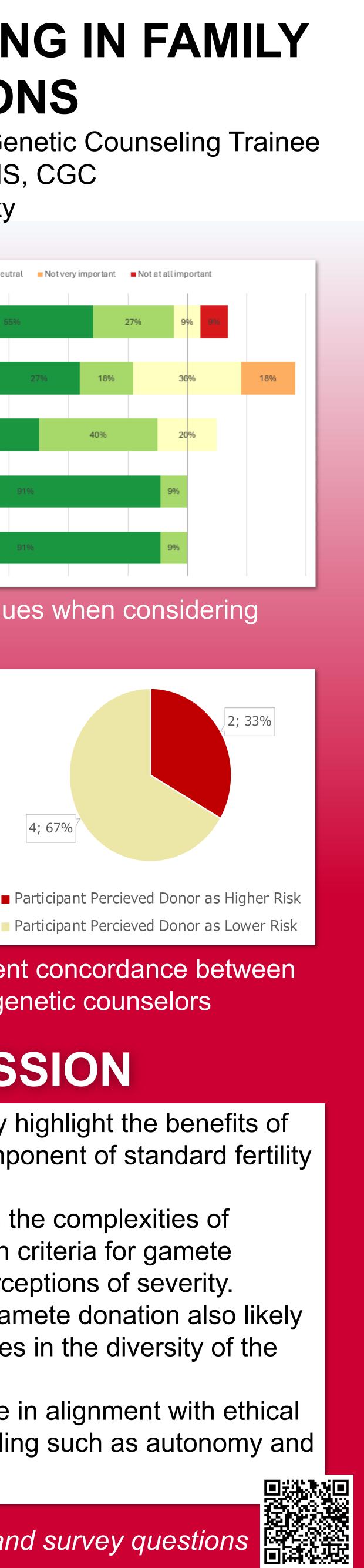


Figure 2. Donor risk assessment concordance between gamete donor recipients and genetic counselors

DISCUSSION

- The results of this pilot study highlight the benefits of genetic counseling as a component of standard fertility practice.
- This study also underscores the complexities of implementing strict exclusion criteria for gamete donation due to differing perceptions of severity.
- Strict exclusion criteria for gamete donation also likely exacerbate existing disparities in the diversity of the gamete donor pool (27-31).
- Exclusion criteria may not be in alignment with ethical principles of genetic counseling such as autonomy and anti-discrimination.

Scan for references and survey questions

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