

Background

- Genetic counselors (GCs) provide guidance to patients on cancer screening and prevention according to established guidelines.
- GCs have been shown to improve patient adherence to recommendations
- Guideline-based cancer screening and prevention services can improve patient outcomes and generate downstream revenue for health systems that can help financially support cancer genetics services
- Research quantifying downstream services after genetic counseling is lacking

Aim

To quantify the rate of risk-reducing salpingo-oophorectomies (RRSOs) after cancer genetic counseling by utilizing multi-center real-world data

Methods

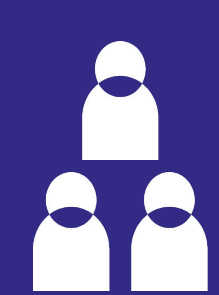
- Retrospective chart review
- Consecutive patients from a nationwide telehealth practice who had undergone genetic counseling and risk assessment with a GC after germline genetic testing
- Structured data and clinic notes obtained from multiple care sites via health information networks

Results



Jan 2018 to Oct 2020

For those with a guideline-based indication for RRSO (6%; 27/460):



100% Female (27/27)

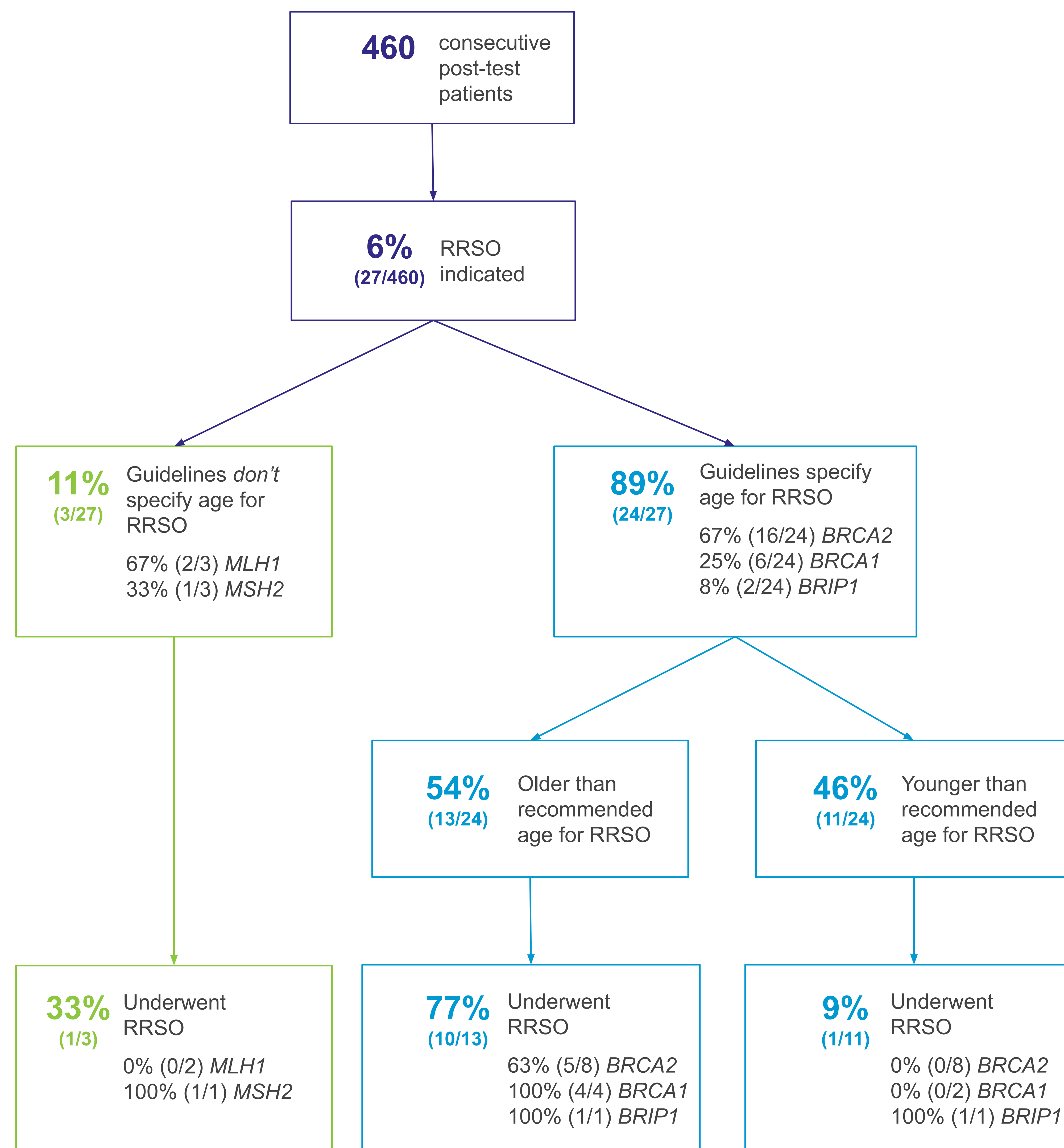


27y Median age



2.6y Median time from GC visit to data collection

Nearly half of patients with a guideline-based indication underwent risk-reducing salpingo-oophorectomy after genetic counseling



p = 0.001

Results



BRCA2 59% (16/27)

BRCA1 22% (6/27)

BRIP1 7% (2/27)

MLH1 7% (2/27)

MSH2 4% (1/27)



26% Breast cancer history (7/27)

0% Ovarian cancer history (0/27)

Uptake of RRSO

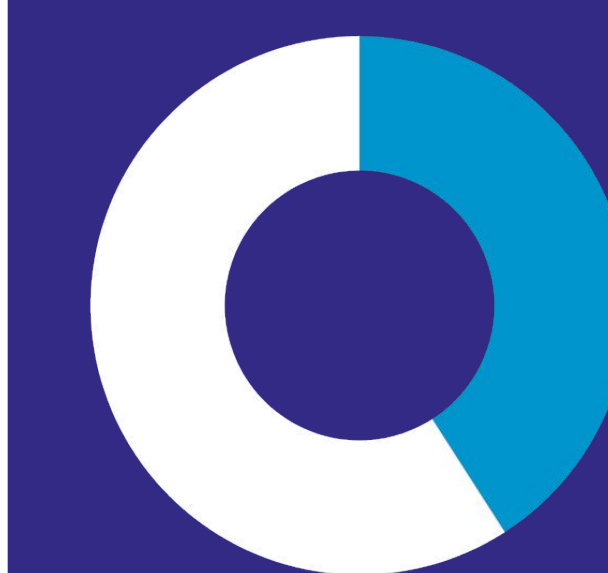


44% underwent RRSO (12/27)

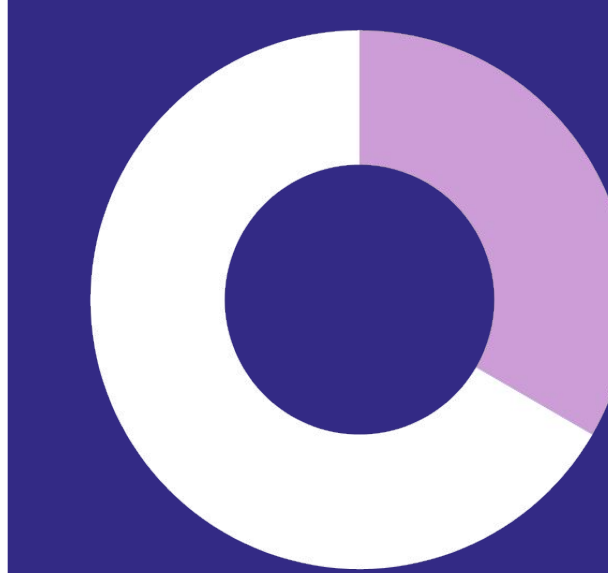


6 months median time from GC visit to RRSO

Uptake by genes



41% (9/22) of *BRCA1/2* patients had RRSO



33% (1/3) of Lynch patients had RRSO



100% (2/2) of *BRIP1* patients had RRSO

Conclusion

- Almost all RRSOs were completed in patients older than guideline age
- Further research is needed that compares uptake of RRSO in patients who did and did not see a GC

Leveraging real-world data from multiple institutions to assess uptake of risk-reducing salpingo-oophorectomy after cancer genetic counseling

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