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Addressing Gaps in Care Through a Medical Student-Led Cancer Screening Project

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BACKGROUND

- Colorectal (CRC), breast (BrCa), and cervical cancer are among the most preventable cancers that have demonstrated proven benefit of early screening.
- Despite strong evidence to support the importance of early detection and intervention, noncompliance to screening guidelines remain.
- The implementation of interactive telephone reminders has been shown to increase adherence to cancer screenings.
- Community service learning has been utilized within academic medicine as an effective way to teach clinical skills, advocacy and empathy.
- We developed a medical student-led project involving phone calls to patients within the Rowan-Virtua **Department of Family Medicine's Accountable Care** Organization (ACO), which includes 5,313 patients.

OBJECTIVES

• To assess the efficacy of a medical student-led service-learning project on increasing adherence to colorectal, breast and cervical cancer screening guidelines.

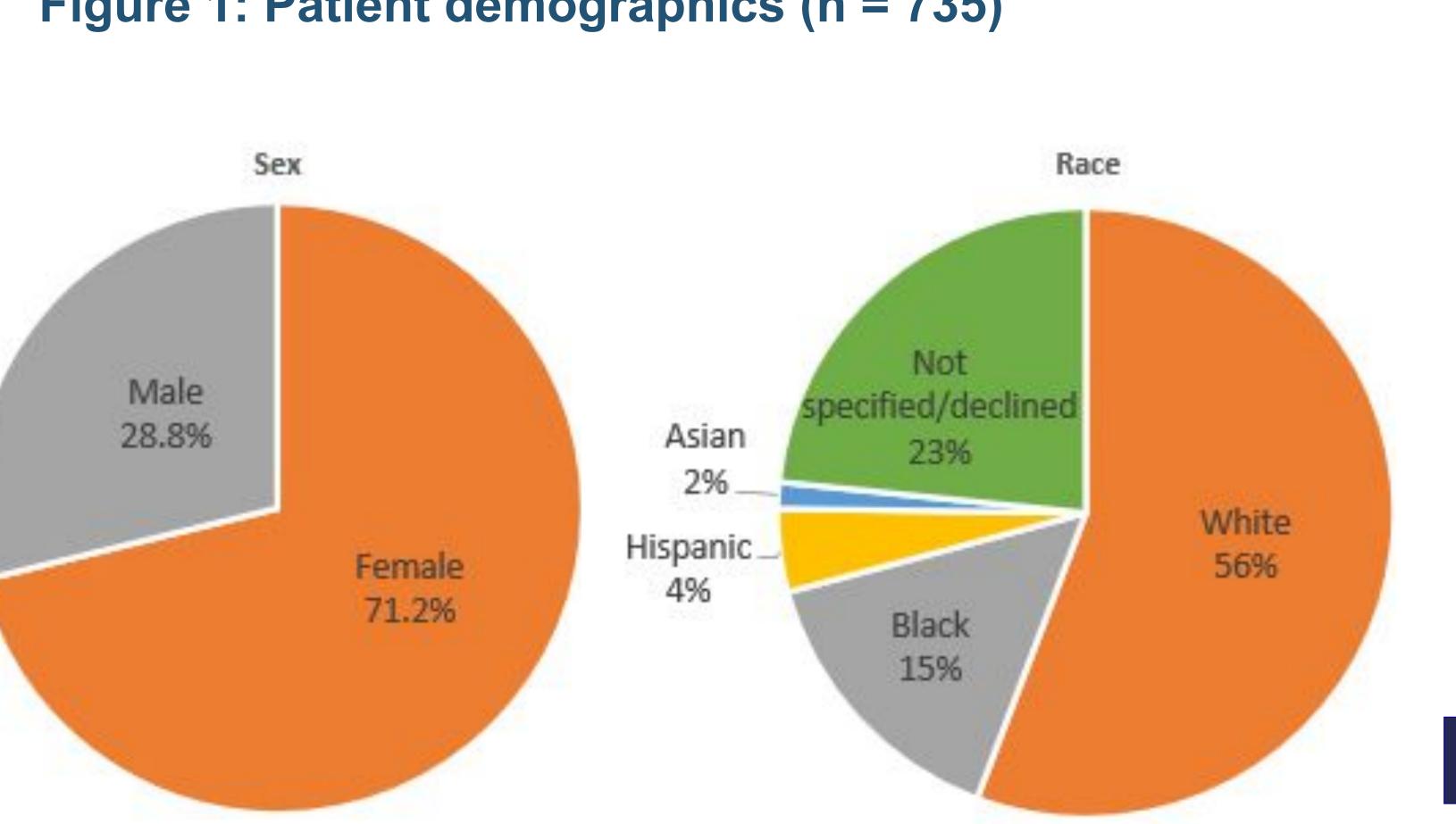
METHODS

- Patients between the ages of 21-75 (n = 735) were identified as due or up-to-date on cancer screenings based on electronic medical chart review.
- Volunteers were trained to contact patients to discuss options for overdue screenings and then place corresponding referrals.
- Screening recommendations were based on United States Preventative Services Task Force (USPSTF) guidelines.
- Patients were contacted between June 2022 and April 2023.
- Patient demographics such as sex, age, and race were collected and recorded.
- Outcome measures for this project included patient eligibility, number of patients reached, number of referrals placed, and number of up-to-date patients.

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Matthew Green, MPH; Hannah Ngo; Dakota Pastore, MPH; Jenna Zappetti; Olivia Siciliano, MPH; Meghan McQuade; John Sauer; Anne Jones, DO, MPH Department of Family Medicine, Rowan-Virtua SOM

Figure 1: Patient demographics (n = 735)



• The mean age (sd) was 57.9 (11.5)

Table 2: Outreach outcomes

OUTCOMES

Total Eligible for phone call	N = 643 (87.5%)	N (%)
	Due for colorectal cancer screening	472 (64.2)
	Due for breast cancer screening	282 (38.4)
	Due for cervical cancer screening	313 (42.6)
Patients reached via phone	N = 323 (50.2%)	
	Referral/order placed	99 (30.7)
	Up to date	75 (23.2)
	Declined	149 (46.1)
Referrals Placed	Colonoscopy	28 (5.9)

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RESULTS

NA	38 (8.1)
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ear	30 (9.6)

- screening.
- 323 (50.2%) patients were reached via phone. Among those:
 - 30.7% received a referral for cancer screening
 - 23.2% reporting being up to date on screenings

 - 46.1% declined screening.
- This intervention closed care gaps for 12.1% of patients within the ACO.

• This project can be used as a framework to establish similar initiatives at other institutions to continue increasing the number of patients screened and close the gap in missed or delayed screenings.

- Dr. Anne Jones, Michael Mowery, Kathleen Taylor and Dr. Allison Mancuso for their continued support on this project
- This study was approved by Rowan-Virtua SOM Institutional Review board (PRO-2022-255)

- 2. Wong MC, Ching JY, Huang J, et al. Effectiveness of reminder strategies on cancer screening adherence: a randomised controlled trial. Br J Gen Pract. 2018;68(674):e604-e611. doi:10.3399/bjgp18X698369
- 3. Seifer SD. (1998). Service-learning: Community-campus partnerships for health professions education. Academic Medicine, 73(3):273-277
- 4. Drastal M, Shaw K, Hyman N, Green M, Baumgart CQ, Diaz D. Colorectal Cancer Screening Decisions From Student-Led Telemedicine Initiative During COVID-19. *PRiMER*. 2023;7:253936. Published 2023 Jan 12. doi:10.22454/PRiMER.2023.253936

• Per chart review, 643 (87.5%) patients were determined to be due for at least one cancer

CONCLUSIONS

• This student-led medical outreach project was successful in promoting increased adherence to national cancer screening guidelines.

ACKNOWLEDGEMENTS

REFERENCES

1. Taksler GB, Peterse EFP, Willems I, et al. Modeling Strategies to Optimize Cancer Screening in USPSTF Guideline-Noncompliant Women. JAMA Oncol. 2021;7(6):885-894. doi:10.1001/jamaoncol.2021.0952