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Uptake of Post-Mastectomy Immediate Breast Reconstruction in Older Women - A real-world analysis of the European Society of Breast Cancer Specialists (EUSOMA) database

R.X.N Lee, R.M Parks, L. Marotti, A. Ponti, M. Tomatis, C. Aristei; G. Curigliano; J. De Vries, D. Santini, F. Sardanelli, P. Van Dam, I.T. Rubio, K.L. Cheung, M.J. Cardoso and the Eusoma Working Group.

Immediate breast reconstruction uptake in older women with primary breast cancer: systematic review, *British Journal of Surgery*, Volume 109, Issue 11, November 2022. Pages 1063-1072

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Introduction

- **Post-mastectomy breast reconstruction improves patients' quality of life**
- **Increasing proportion of older women living with breast cancer**
- **Lower uptake of post-mastectomy immediate breast reconstruction (PMIBR) in older women**





- 1. Is there a disparity in uptake of PMIBR in older women compared to younger women?**
- 2. How can we attempt to overcome this disparity?**
- 3. Was the disparity influenced by the COVID-19 pandemic?**

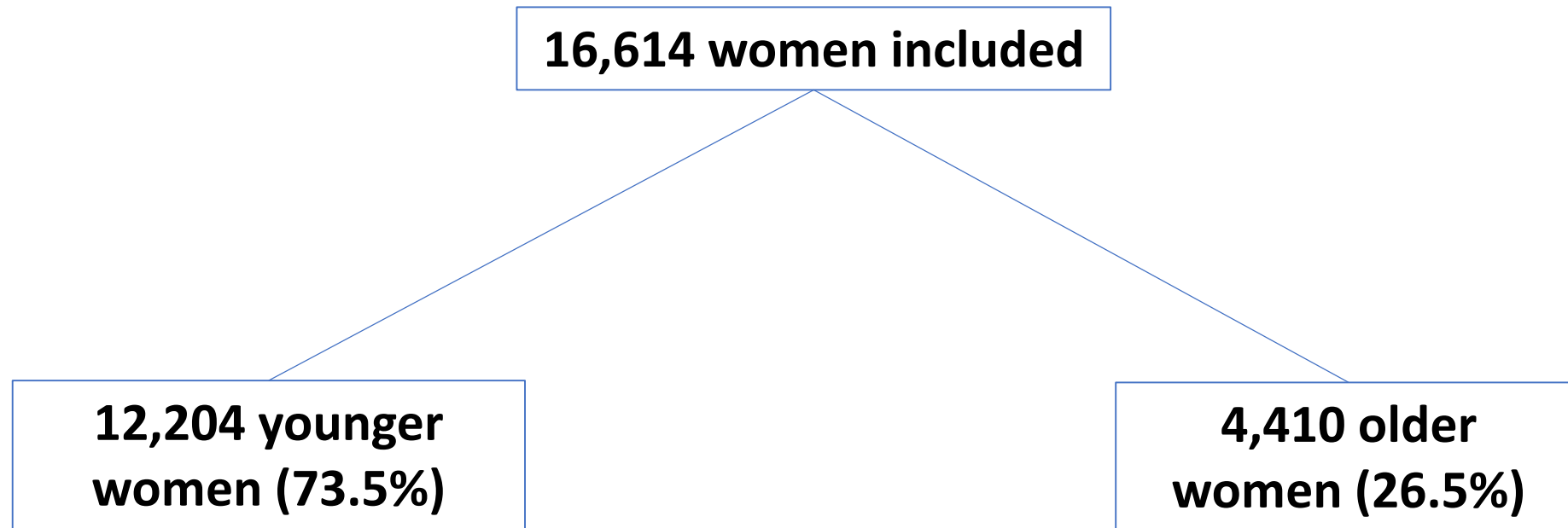


Methods

- **Real-world prospectively collected data from EUSOMA database**
- **Female patients who had undergone PMIBR for primary breast cancer from 2017 to 2021**
- **Excluded cases: delayed reconstruction and prophylactic mastectomy**

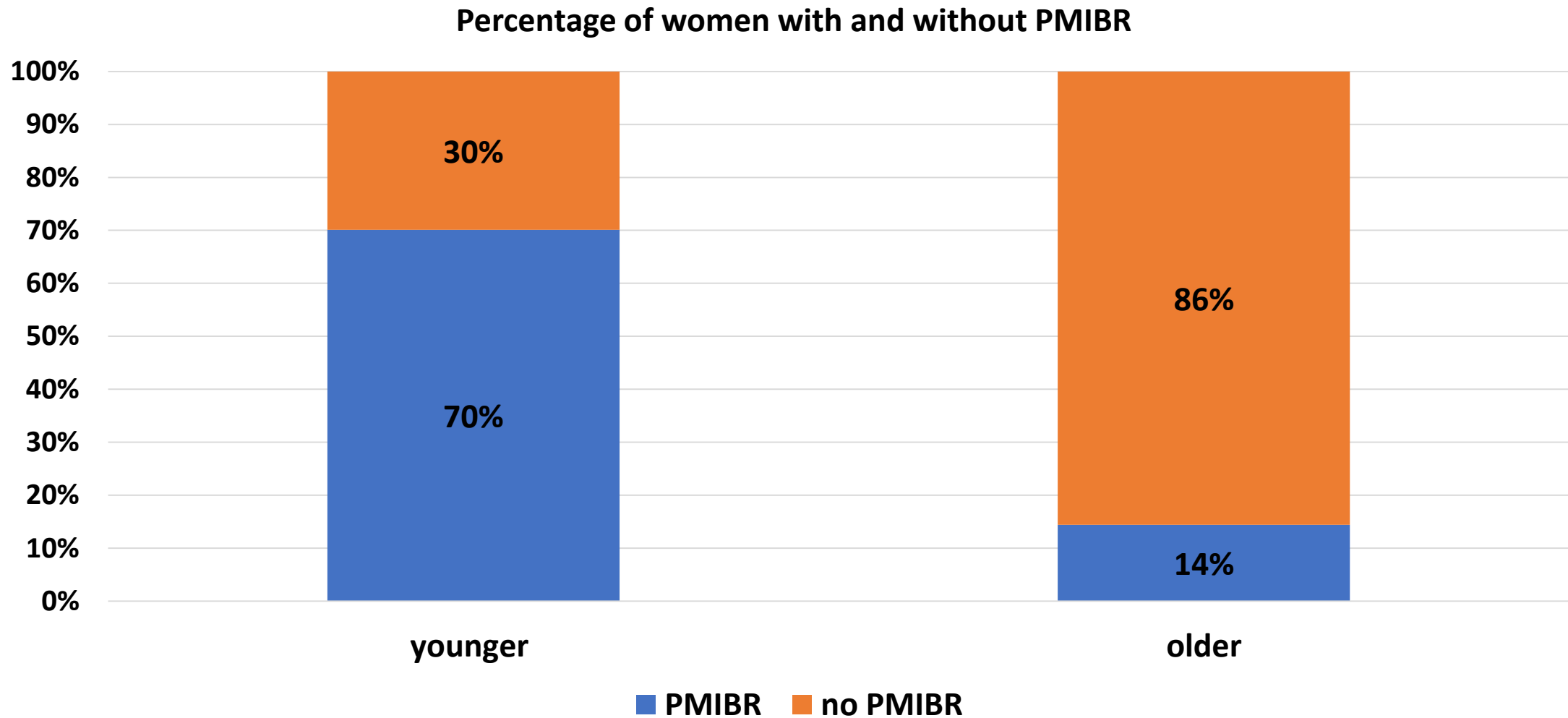


Results





Results





Results

		PMIBR rate for younger women (age <70) (%)	PMIBR rate for older women (age ≥70) (%)
Treatment	No neoadjuvant therapy	74.7	14.9
	Neoadjuvant Chemotherapy	61.0 (p=0.245)	11.1 (p=0.230)



Results

- Radiotherapy was an independent predictor for younger women not undergoing PMIBR

Radiotherapy treatment	PMIBR rate for younger women (age <70) (%)	PMIBR rate for older women (age ≥ 70) (%)
Yes	58.5% (p<0.001)	11.2% (p=0.484)
No	78.3%	15.8%



Results

		PMIBR rate for younger women (age <70) (%)	PMIBR rate for older women (age ≥70) (%)
Tumour Stage	cTIS	82.2 (p=0.029)	26.4 (p=0.157)
	cT1	76.7	20.5
	cT2	72.2 (p=0.271)	12.2 (p<0.001)
	cT3	56.6 (p<0.001)	6.5 (p<0.001)
	cT4	23.5 (p<0.001)	5.4 (p<0.001)



Results

		PMIBR rate for younger women (age <70) (%)	PMIBR rate for older women (age ≥70) (%)
Nodal stage	cN0	75.2	16.0
	cN1	62.1 (p=0.841)	11.2 (p=0.557)
	cN2+	46.2 (p=0.034)	5.9 (p=0.065)



Results

- **No significant impact of COVID-19 on the disparity in uptake of PMIBR in older women compared to younger women**

		PMIBR rate for younger women (age <70) (%)	PMIBR rate for older women (age ≥70) (%)
Year	2017-2019	70.2	14.7
	2020-2021	69.9 (p=0.307)	14.0 (p=0.382)



Conclusion

- **Disparity in uptake of PMIBR between older and younger women**
- **Reasons for this disparity remain inadequately understood**
- **Further research to explore patient-, physician-, and system-associated factors**





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