

## Noa Gordon<sup>1</sup>, Cara Dooley<sup>1</sup>, Áine Murphy<sup>1</sup>, Frank Sullivan<sup>2</sup>, Ray McDermott<sup>3</sup>, Linda Sharp<sup>4</sup>, William R Watson<sup>1</sup> and David Galvin<sup>1,5</sup>

1. University College Dublin. 2. University of Galway and the Galway Clinic. 3. Tallaght and St Vincent's University, UK. 5. St Vincent's and Mater Misericordiae University Hospitals

### Introduction

The Irish Prostate Cancer Outcomes Research (IPCOR) Study collected comprehensive longitudinal data on men diagnosed with prostate cancer in Ireland, which has a mixed public-private healthcare system.

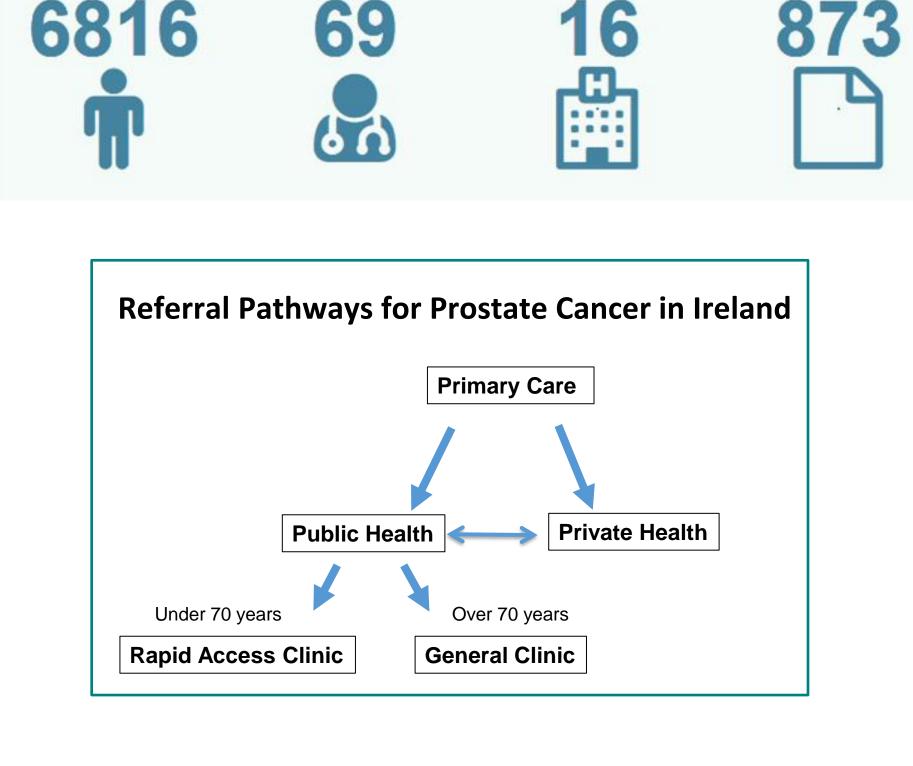
This analysis aims to characterize disease presentation features and identify factors related to sociodemographic disparities.

#### Methods

From February 2016 until January 2020, IPCOR collected data on demographics, diagnosis and treatment from 6816 men in 16 hospitals across Ireland. Covering about 85% of the patient population.

A subset of 873 men participated in a Patient Reported Outcomes (PROMs) sub-study, providing information regarding healthcare financing (i.e., having private medical insurance or public medical card).

A complete case analysis was performed. Between-group comparisons were performed using chi-squared analysis for categorical variables and ANOVA for continuous variables. Multivariable logistic regression was performed to predict dichotomous dependent variables.



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# The Squeezed Middle – Sociodemographic Disparities in Prostate Cancer Presentation in Ireland – **Results from the Irish Prostate Cancer Outcomes Research (IPCOR) Study**

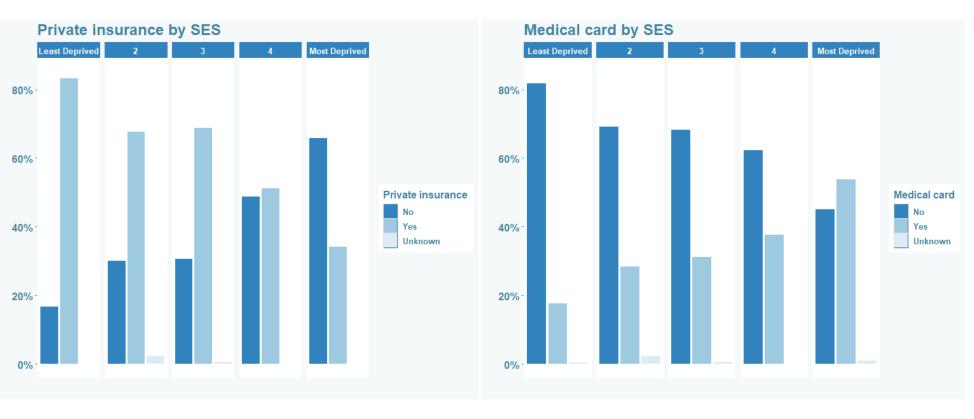
60% -

#### Results

A) The median age at diagnosis was 66.7. Almost two-thirds of men (62.2%) were diagnosed in a public hospital. Threequarters of men (69.1%) were diagnosed following opportunistic PSA screening, while a small proportion (7.6%) presented with symptoms.

	Overall (N=6816)
Age at Diagnosis	
Mean (SD)	66.7 (8.23)
Median [Min, Max]	67.0 [31.0, 94.0]
Missing	98 (1.4%)
PSA at Diagnosis	
Mean (SD)	30.2 (219)
Median [Min, Max]	7.68 [0.100, 9150]
Missing	405 (5.9%)
Method of Presentation	
Screening opportunistic	4712 (69.1%)
Symptoms	520 (7.6%)
Incidental	256 (3.8%)
Unknown	736 (10.8%)
Missing	592 (8.7%)
Distance Travelled to Diagnosing Hospital	
Mean (SD)	58.0 (61.7)
Median [Min, Max]	39.1 [0.173, 353]
Missing	50 (0.7%)
Deprivation Index	
1 - Least Deprived	1377 (20.2%)
2	1176 (17.3%)
3	1267 (18.6%)
4	1355 (19.9%)
5 - Most Deprived	1290 (18.9%)
Missing	54 (0.8%)
Mult_Different	297 (4.4%)

#### B) Examining the self reported responses, socioeconomic status (SES) was negatively linked to private insurance and positively linked medical cards (both p<0.001).

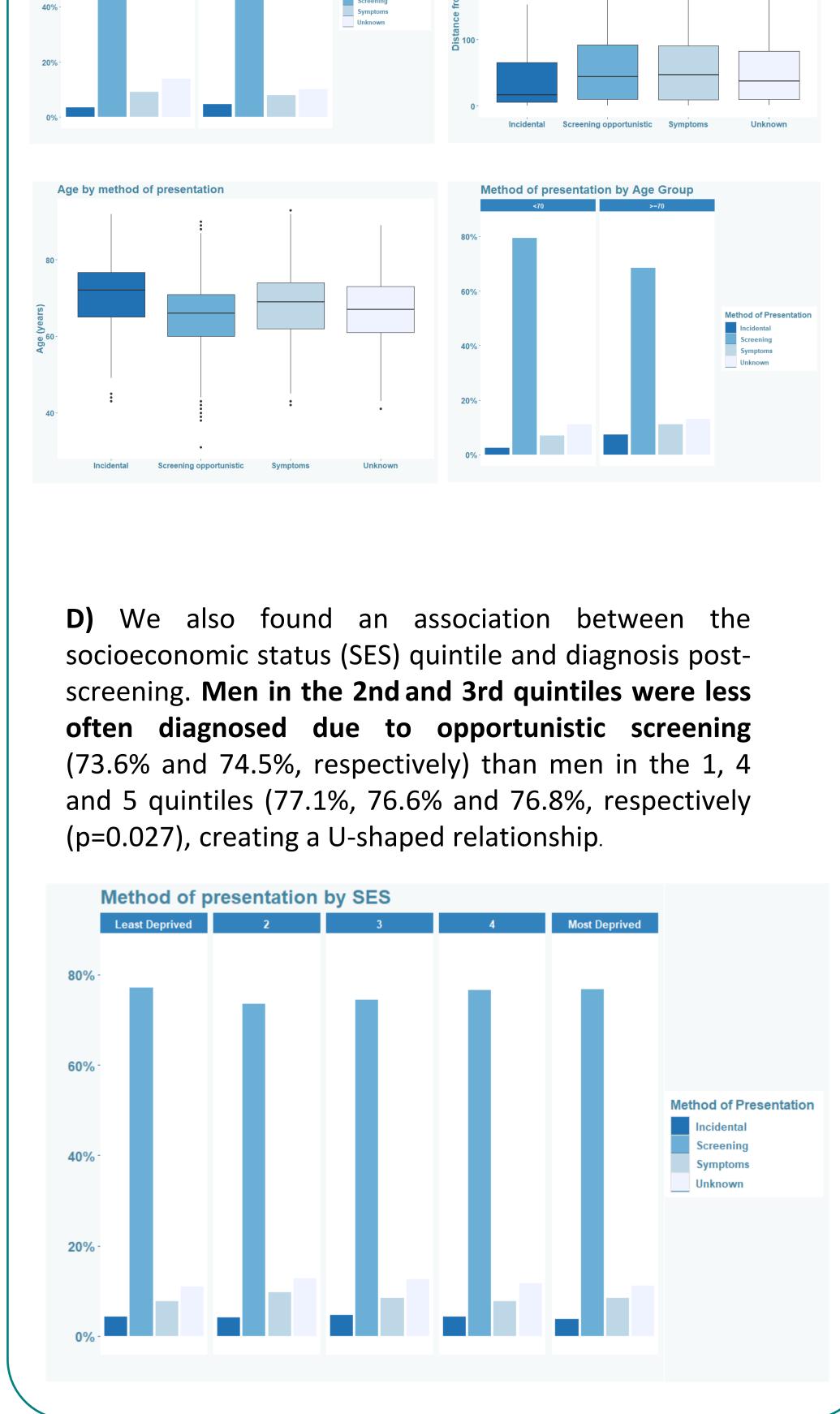




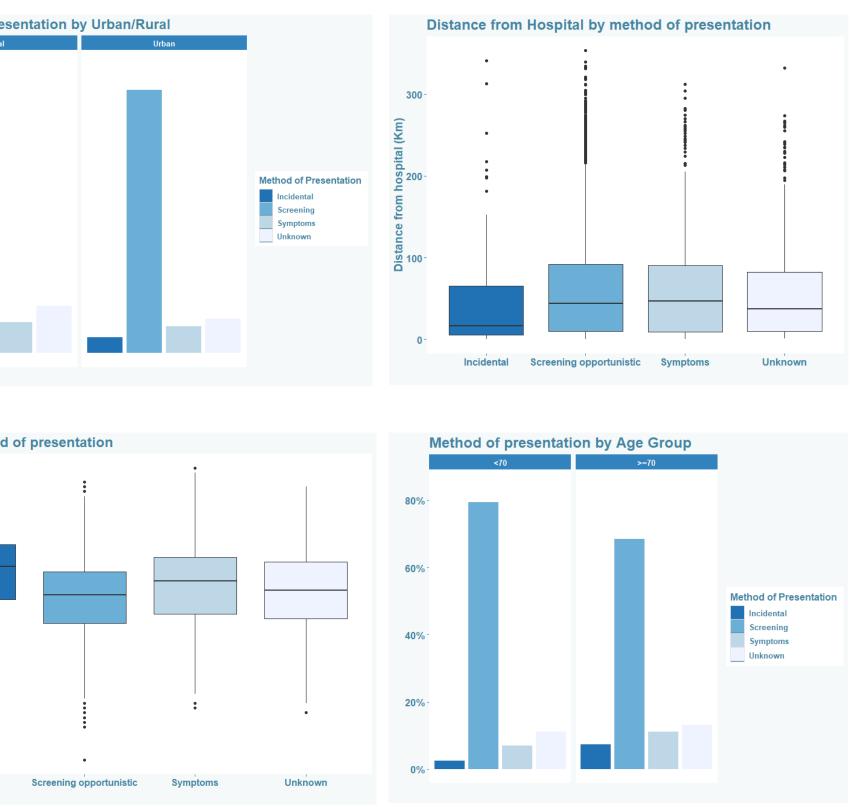
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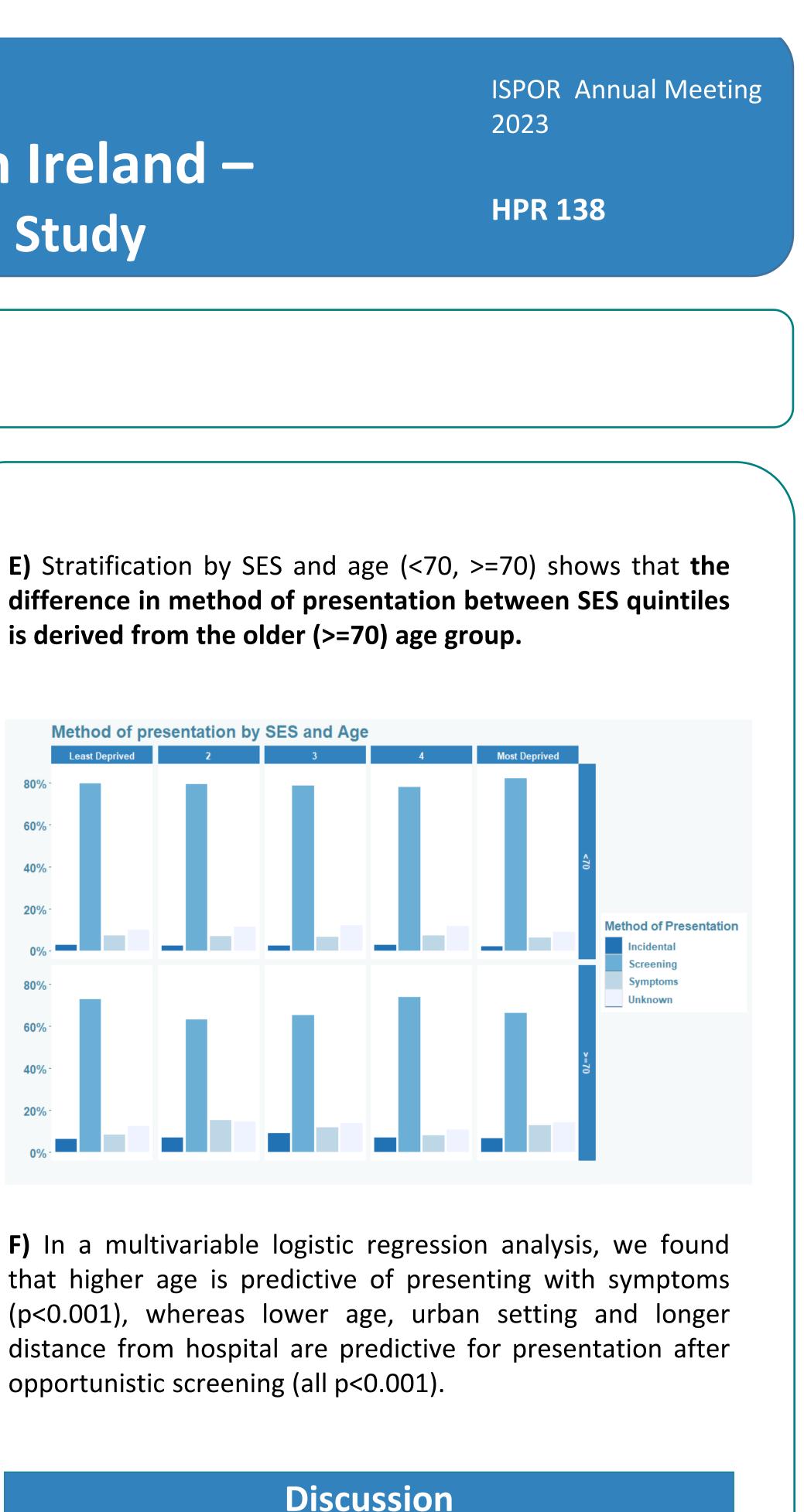


Cancer Registry Ireland



C) Distance to hospital, rural or urban setting and age (<70, >=70) were associated with method of presentation (all p<0.001).

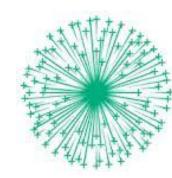




medical coverage.

Resources should be allocated to enable universal access to prostate cancer screening. This may eliminate disparities in disease presentation and affect outcomes.





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A variation was found in the method of disease presentation by socioeconomic status. Ireland's two-tiered public-private healthcare system may explain this anomaly.

While men in the 2 and 3 SES quintiles may not afford private insurance, they also may not be eligible for social

These men may avoid opportunistic screening since general practitioner visits are costly.

#### Conclusion

