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### **KEY TAKEAWAYS**

- Patients with pPSA after RP represent a small number of LPCa patients. It however is key that this patients are identified and managed properly.
- This population have a significantly higher risk of metastasis, progression to CRPC and PC-specific death.
- Alternative treatment strategies are required to manage disease progression in this population.

**KEY TAKEAWAY** CONCLUSIONS INTRODUCTION METHODS RESULTS RESULTS RESULTS RESULTS REFRENCES AND ACKNOWLEDGEMENT

NAVIGATION



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### CONCLUSIONS

- Patients who do not achieve a PSA<0.1 ng/ml after radical prostatectomy have a worse prognosis.</p>
- IPCa patients should be monitored closely after RP to identify the sub-population with persistent PSA that could benefit from additional therapies intensified systemic therapies including Androgen Receptor Pathway Inhibitors (ARPIs).

NAVIGATION **KEY TAKEAWAY** CONCLUSIONS INTRODUCTION METHODS RESULTS RESULTS RESULTS RESULTS REFRENCES AND ACKNOWLEDGEMENT

Prostate Cancer



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### INTRODUCTION

- Patients (pts) with localized high-risk/very high-risk prostate cancer (PCa) have an elevated risk of metastases and Prostate Cancer (PCa)-specific death following local therapy.
- This risk is significantly higher for patients with a persistently positive PSA (pPSA) after Radical Prostatectomy (RP). We aim to better understand the current management strategies for this population using real world data.





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### **METHODS**

A retrospective population-based cohort study using province-wide linked administrative data from 2010-2022, in ON, CA and patterns of patient management in the intermediate (IR)/High-/very high risk (h/vHR) LPCa patients who underwent RP with persistently elevated PSA>=0.1 ng/ml were analyzed.



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### RESULTS

# Baseline Characteristics by Next Line of Therapy among Patients with +Persistently Positive PSA after RP

\*\*Next Line of Therapy Total RT ADT RT+ADT Variable P Value N=207 N=76 N=26 N=105 Age at PC Median (Q1-Q3) 63 (58-67) 61 (57-66) 67 (63-69) 64 (60-67) 0.0035 diagnosis PSA value Median (Q1-Q3) 10 (7-15) 9 (6-12) 12 (7-18) 10 (7-15) 0.2819 Stage II, n (%) 75 (36.2%) 38 (50.0%) 8 (30.8%) 29 (27.6%) 0.0069 PC best stage Stage III, n (%) 132 (63.8%) 38 (50.0%) 18 (69.2%) 76 (72.4%) Score <= 6, n (%) 13 (6.3%) 6 (7.9%) 0 (0.0%) 7 (6.7%) 0.0113 Gleason score Score = 7, n (%) 131 (63.3%) 57 (75.0%) 18 (69.2%) 56 (53.3%) 63 (30.4%) Score >=8, n (%) 13 (17.1%) 8 (30.8%) 42 (40.0%) CCI=0, n (%) 55 (26.6%) \*16-20 \*7-11 28 (26.7%) 0.5741 Charlson \*1-5 CCI=1-2, n (%) 32 (15,5%) \*8-12 \*15-19 comorbidity index CCI>=3, n (%) \*1-5 \*1-5 \*1-5 6(2.9%)(CCI) CCI: Missing, n (%) 114 (55.1%) 43 (56.6%) 14 (53.8%) 57 (54.3%)

\*Persistently positive PSA: Patients who Underwent RP and after Surgery never had PSA Measured at <0.1 while Having I+ PSA Test. \* Sample size is compressed due to the small # for the difference between this group and the group for brachy, or between this cohort of patients aged 66+ and the overall

cohort patients.
\*\*Note: The groups of next line therapy in this table are mutually exclusive. They were based on the patients who received treatments: 1). RT + ADT: receiving both RT and ADT
after RP (overlapping or not); 2). RT: receiving RT only; and 3). ADT: receiving ADT only. (Patients may only be in one of the 3 groups).

KEY TAKEAWAY

CONCLUSIONS

INTRODUCTION

METHODS

RESULTS

RESULTS

RESULTS

RESULTS

RESULTS

NAVIGATION

REFRENCES AND ACKNOWLEDGEMENT



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### RESULTS

### Management of Patients with Persistently Positive PSA after

Management	Label (Sample size)	Total N=314	Intermediat e Risk N=127 ्94	High- or Very High Risk N=187	P Value	Standardized Difference
Next line therapy			on re			
Radiotherapy(RT) ADT	) n (%) n (%)	147 (46.8%) 127 (40.4%)	43 (33.9%) 22 (17.3%)	104 (55.6%) 105 (56.1%)	0.0001 <.0001	0.448 0.880
RT + ADT PSA value	n (%) n (%)	68 (21.7%) 162 (51.6%)	<sup>6</sup> 12 (9.4%) 43 (33.9%)	56 (29.9%) 119 (63.6%)	<.0001 <.0001	0.533 0.624
immediately preceding start of	Mean (SD)	27.46 (127.11)	40.44 (172.54)	22.76 (106.61)	0.4361	0.123
next line of therapy	Median (IQR)	(0.3-5.5)	1.5 (0.3-6.9)	0.9 (0.2-5.0)	0.2821	0.194



KEY TAKEAWAY	
CONCLUSIONS	
INTRODUCTION	
METHODS	
RESULTS	
RESULTS	
RESULTS	
RESULTS	
REFRENCES AND ACKNOWLEDGEMENT	



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### RESULTS

# Time to Progression to CRPC, PCa Event and Mortality by Persistently positive PSA Status among Patients with RP

			Persistent		
Variable			No	Yes	P Value
		N=207	N=13,770 \	N=314	
Time to	n (%)	186 (1.3%)	148 (1.1%)	38 (12.1%)	<.0001
CRPC	Median (IQR), Years	9.1 (7-11.3)	9 (7-11.3)	7.4 (5.2-10)	<.0001
Time to	n (%)	6,001 (42.6%)	5,744 (41.7%)	257 (81.8%)	<.0001
PC event	Median (IQR), Years	6.7 (1.9-3.6) 6.8 (1.5-10)		0.8 (0.4-4)	<.0001
PSA value		un (no choje			
before RP (PSA test	Median (IQR), ng/ml	6.7 (5.1-9.6)	6.7 (5.0-9.6)	9.0 (5.9- 12.8)	
closest to RP)	aterial is	6.7 (5.1-9.6)			<.0001



NAVIGATION

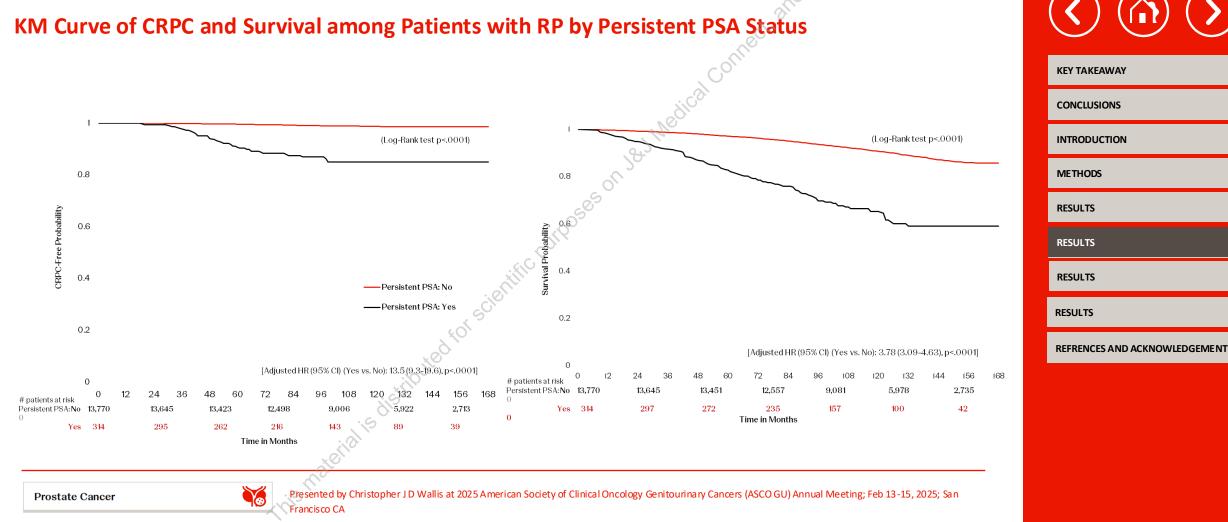
Prostate Cancer



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RESULTS



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NAVIGATION



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