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## Baseline Circulating Tumor Cell (CTC) Subtype Predicts Responses to Enzalutamide but Not Abiraterone in Metastatic Castration-Resistant Prostate Cancer (mCRPC) Patients Howard I. Scher<sup>1,2</sup>, Adam Jendrisak<sup>3</sup>, Nicole A. Schreiber<sup>1</sup>, Brigit McLaughlin<sup>1</sup>, Ryon P. Graf<sup>3</sup>, Angel Rodriguez<sup>3</sup>, Martin Fleisher<sup>1</sup>, Jerry Lee<sup>3</sup>, James Kelvin<sup>3</sup>, Yipeng Wang<sup>3</sup>, Mark Landers<sup>3</sup>, Ryan Dittamore<sup>3</sup>

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- Enza but not both, and have the potential to guide ARSi therapy selection strategy.



Patient Cha	racteristics				
Unique Patients	98				
Age, years: median (range)	70 (45-87)				
Primary Treatment					
Prostatectomy	47 (48%)				
Radiation	21 (21%)				
Brachytherapy	3 (3%)				
None	27 (28%)				
Sample Characteristics					
Total Baseline (pre-therapy)	107				
Samples	107				
Metastatic Therapy Initiated after Baseline					
Abiraterone	47 (44%)				
Enzalutamide	60 (56%)				
Line of Metastatic Therapy at Baseline					
1 <sup>st</sup> Line	64 (60%)				
2 <sup>nd</sup> Line	43 (40%)				
Chemotherapy Status at Baseline					
Chemo-naïve	97 (91%)				
Chemo-exposed	10 (9%)				

Metastatic Sites of	Disea
Bone Only	
Lymph Node Only <sup>a</sup>	
Bone and Lymph Node <sup>a</sup>	
Bone and Visceral +/- Lymph	
Node <sup>a</sup>	
Other Soft Tissue Only	
Laboratory Meas	sures
PSA, ng/mL: median (range)	
Hgb, g/dl: median (range)	
ALK, unit/L: median (range)	
LDH, unit/L: median (range) <sup>b</sup>	
ALB, g/dl: median (range)	
CTC Enumerat	ion at
Total CTC/mL: median (range)	



ds of Death (Overall Survival)	Feature	HR	<i>p</i> Value	CI	
Favors Abi	Enza Therapy	0.6543	0.42	0.2351-1.821	
	Cell Type K & Enza	5.2792	0.03	1.168-23.861	
	<ul> <li>Cox proportional model: <ul> <li>therapy (Abi vs. Enza)</li> <li>patient Cell Type K status</li> <li>interaction term between therapy and the Cell Type K status.</li> </ul> </li> <li>Cell Type K status was evaluated as a binary</li> </ul>				