

Outcomes of first subsequent taxane (FST) therapy in patients (pts) with metastatic castration-resistant prostate cancer (mCRPC) who previously received docetaxel intensification (DI) for metastatic castration-sensitive prostate cancer (mCSPC).

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1. Background

- Metastatic prostate cancer is an incurable illness with a limited life expectancy.
- The management of advanced prostate cancer is rapidly evolving, particularly with earlier use of survival prolonging therapies in mCSPC.
- Though approved prior to the use of intensification therapy in mCSPC, taxane-based chemotherapies remain a relevant option for pts with mCRPC. However, there is little evidence determining outcomes of FST in mCRPC pts who received DI in mCSPC.
- The purpose of this study is to compare outcomes between the survival prolonging taxanes, docetaxel (D) and cabazitaxel (C), as FST after DI.

2. Materials

- New patient consults seen at the Cross Cancer Institute from 1 July 2014 to 31 Dec 2020 were reviewed.
- Pts were considered eligible if they received DI for mCSPC, and received either D or C in mCRPC.
- Endpoints:
 - Primary endpoint: $\geq 50\%$ PSA response at 12 weeks relative to baseline for FST.
 - Secondary endpoints: OS from mCSPC diagnosis, and PFS and OS from FST start date.
- PSA responses were compared using chi-squared test and time-based endpoints were compared using the Kaplan-Meier method.

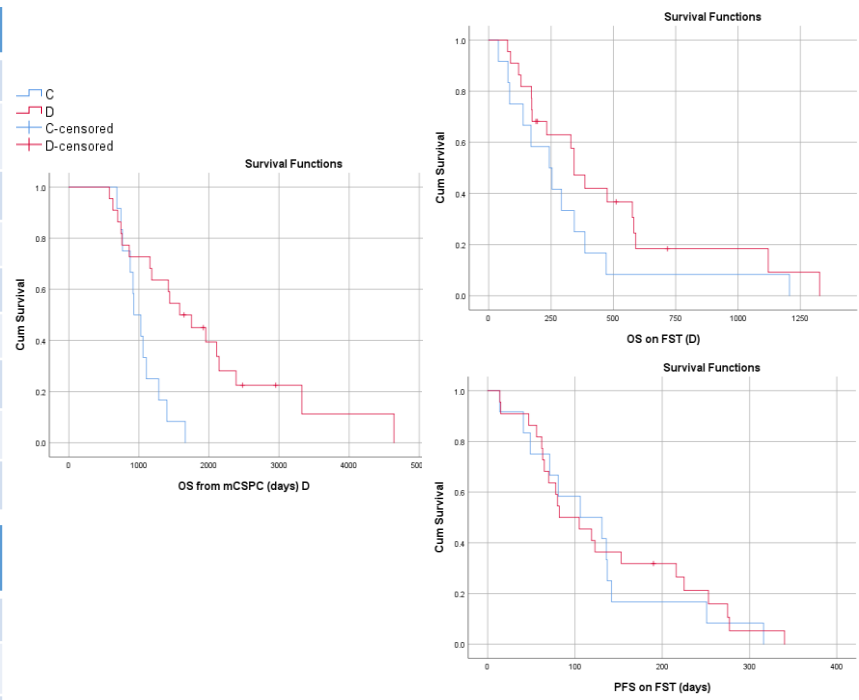
3. Results



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Baseline Characteristics	D	C	P-value
Total Patients	22	12	
Median Age at Diagnosis (years)	63.1	67.1	0.236
Sites of Metastases			0.215
Bone	81.8%	100%	
Lymph nodes	4.5%	0%	
Visceral	13.6%	0%	
Progression at Last Follow Up	95.5%	100%	0.453
Surviving at Last Follow Up	18.2%	0%	0.116
Median time to CRPC (mos)	18.6	14.2	0.079

Treatment & Survival Outcomes	D	C	P-value
Median Time to FST (mos)	34.6	24.1	0.036
Received FST as second-line	95.5%	83.3%	
PSA response to FST	40.9%	25.0%	0.645
Median OS from mCSPC diagnosis (mos)	52.7	31	0.002
Median OS from FST start date (mos)	11.4	8.1	0.132
Median PFS from FST start date (mos)	2.7	3.5	0.727



4. Conclusions

- Both D and C demonstrated activity as FST after DI in mCSPC.
- Pts who received C had shorter time to FST and OS from mCSPC. The reasons for this may reflect clinician preference for C in pts with aggressive or rapidly progressing disease.
- No difference was found in PSA response, PFS, or OS from FST with D compared to C.
- While limited by its retrospective nature and small sample size, this study suggests that D is active as FST despite treatment with DI in mCSPC.