

Optimal Integration of Chemotherapy into the Management of Metastatic Prostate Cancer

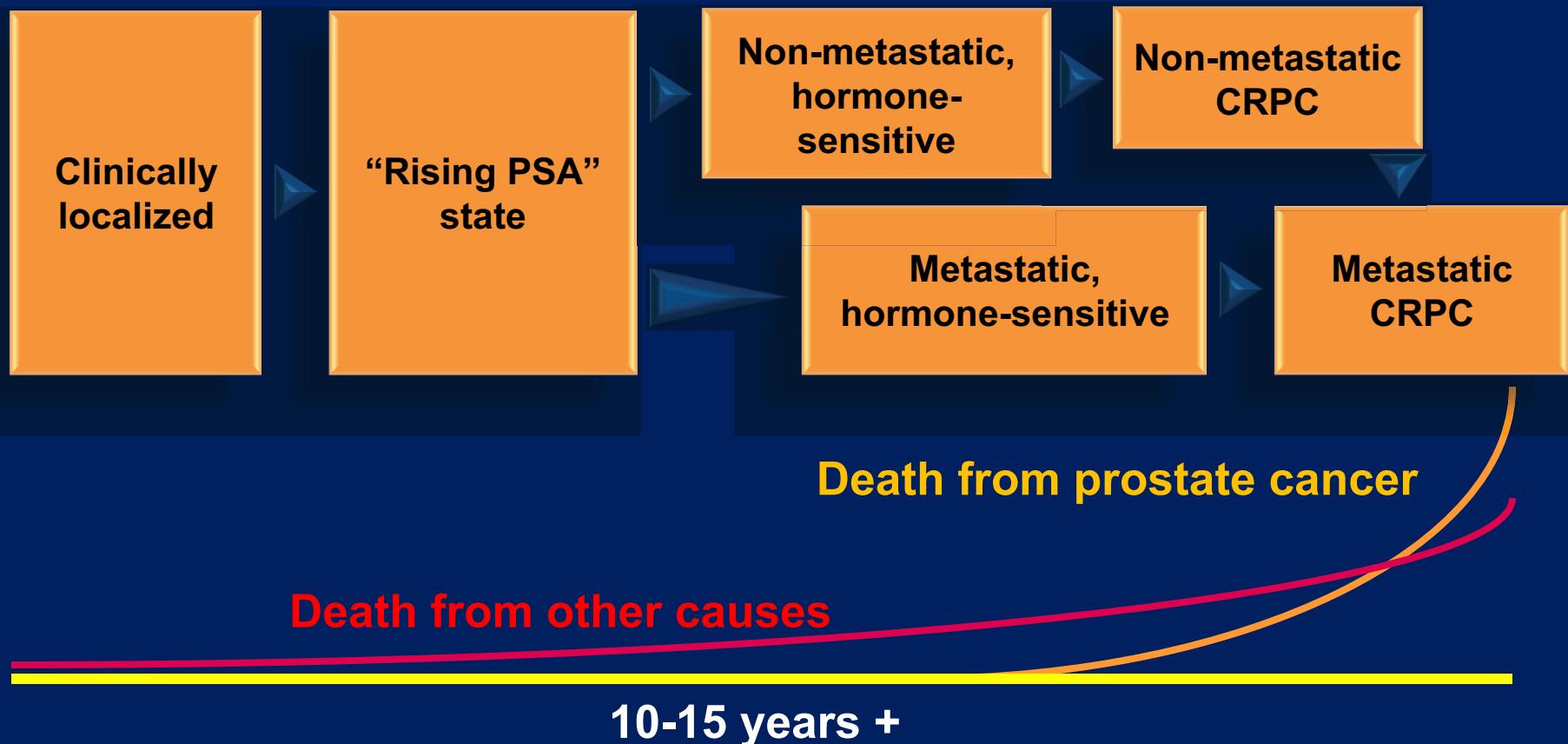
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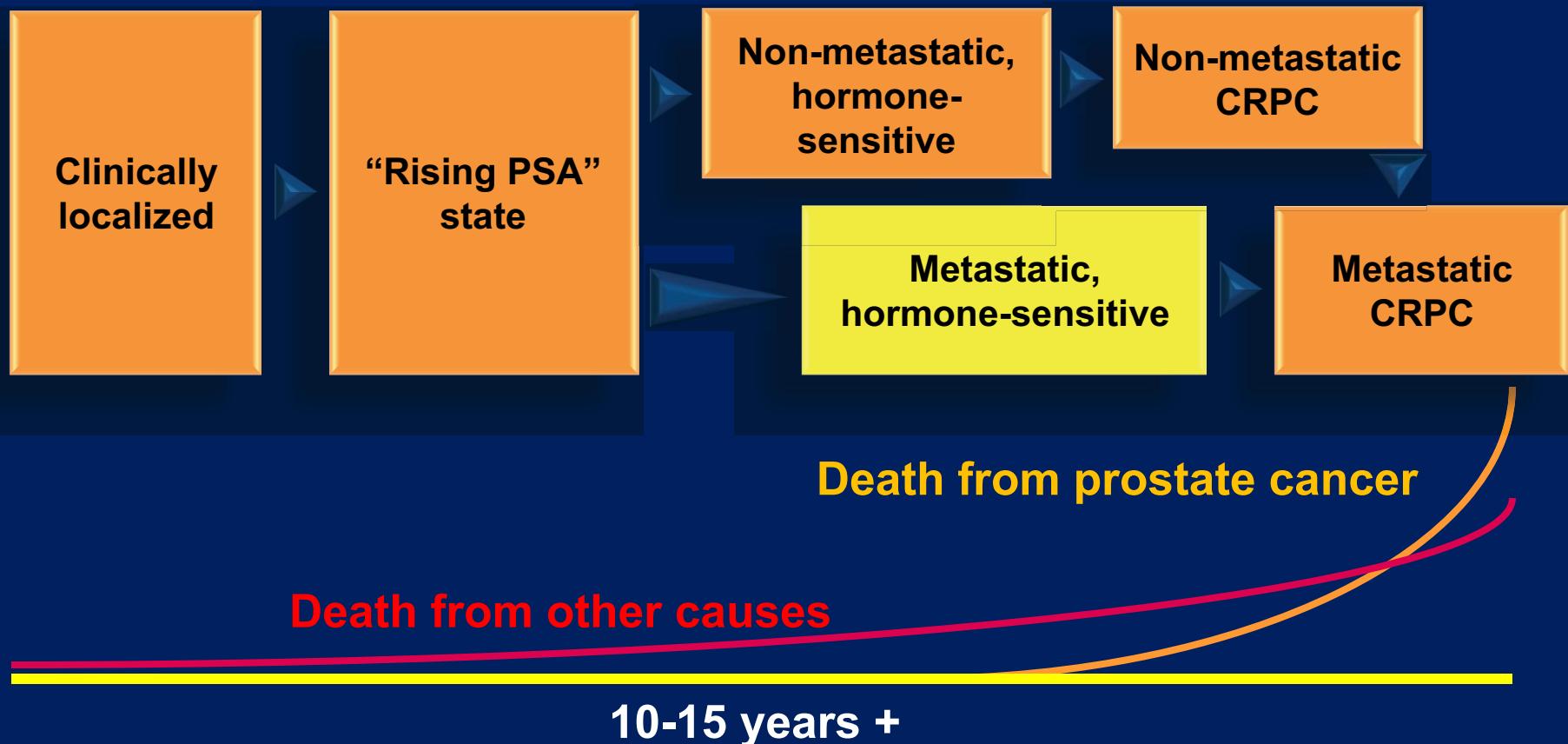
Disclosures

Consulting Agreements	Astellas Pharma Global Development Inc, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Churchill Pharmaceuticals LLC, Inovio Pharmaceuticals Inc, Janssen Biotech Inc, Sanofi Genzyme, Tokai Pharmaceuticals Inc
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Clinical States of Prostate Cancer



Clinical States of Prostate Cancer



What Is The Role Of Chemotherapy For Newly Diagnosed Metastatic Prostate Cancer?

E3805 – CHARTED Treatment

STRATIFICATION

Extent of Mets

-High vs Low

Age

≥ 70 vs < 70 yo

ECOG PS

- 0-1 vs 2

CAB >30 days

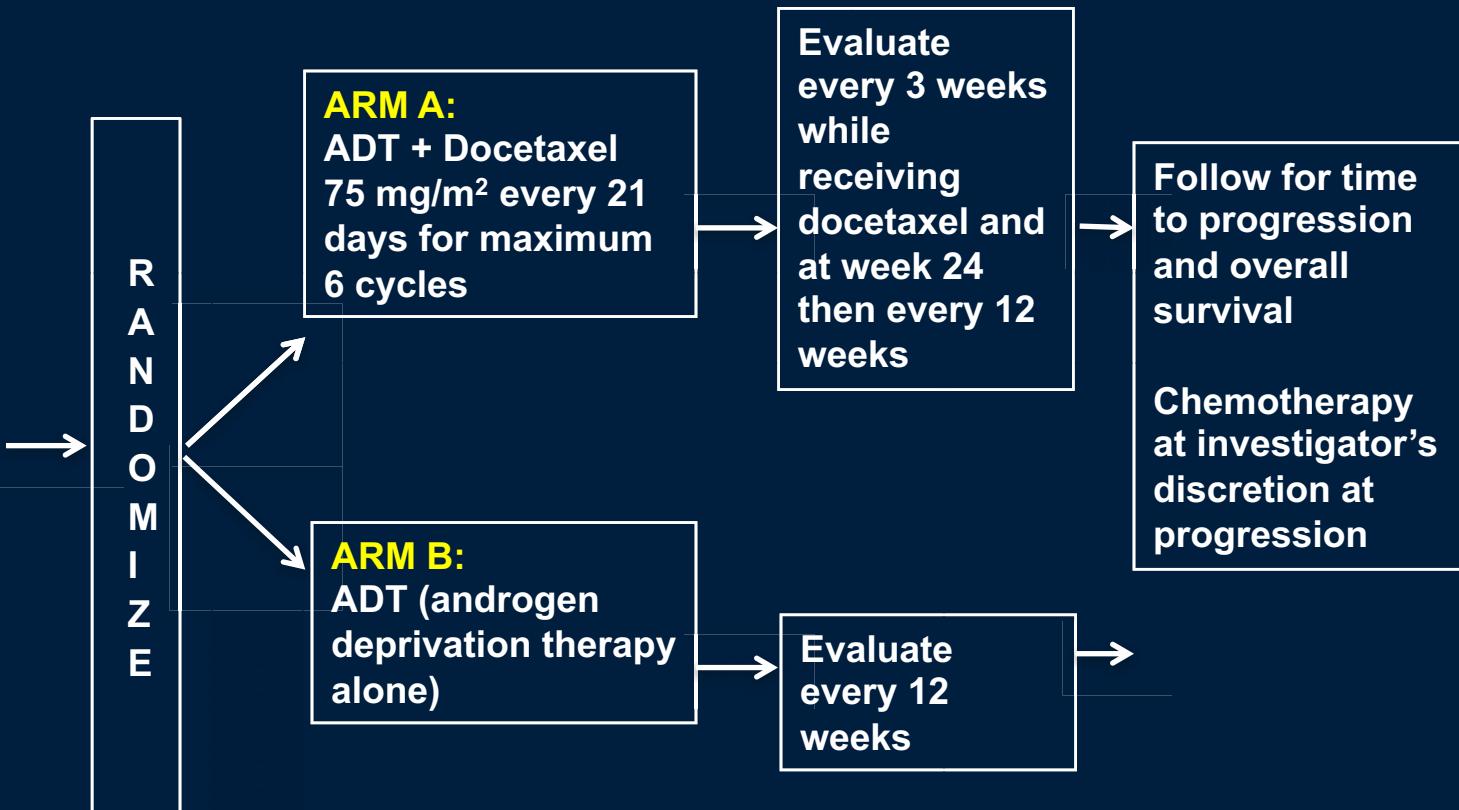
-Yes vs No

SRE Prevention

-Yes vs No

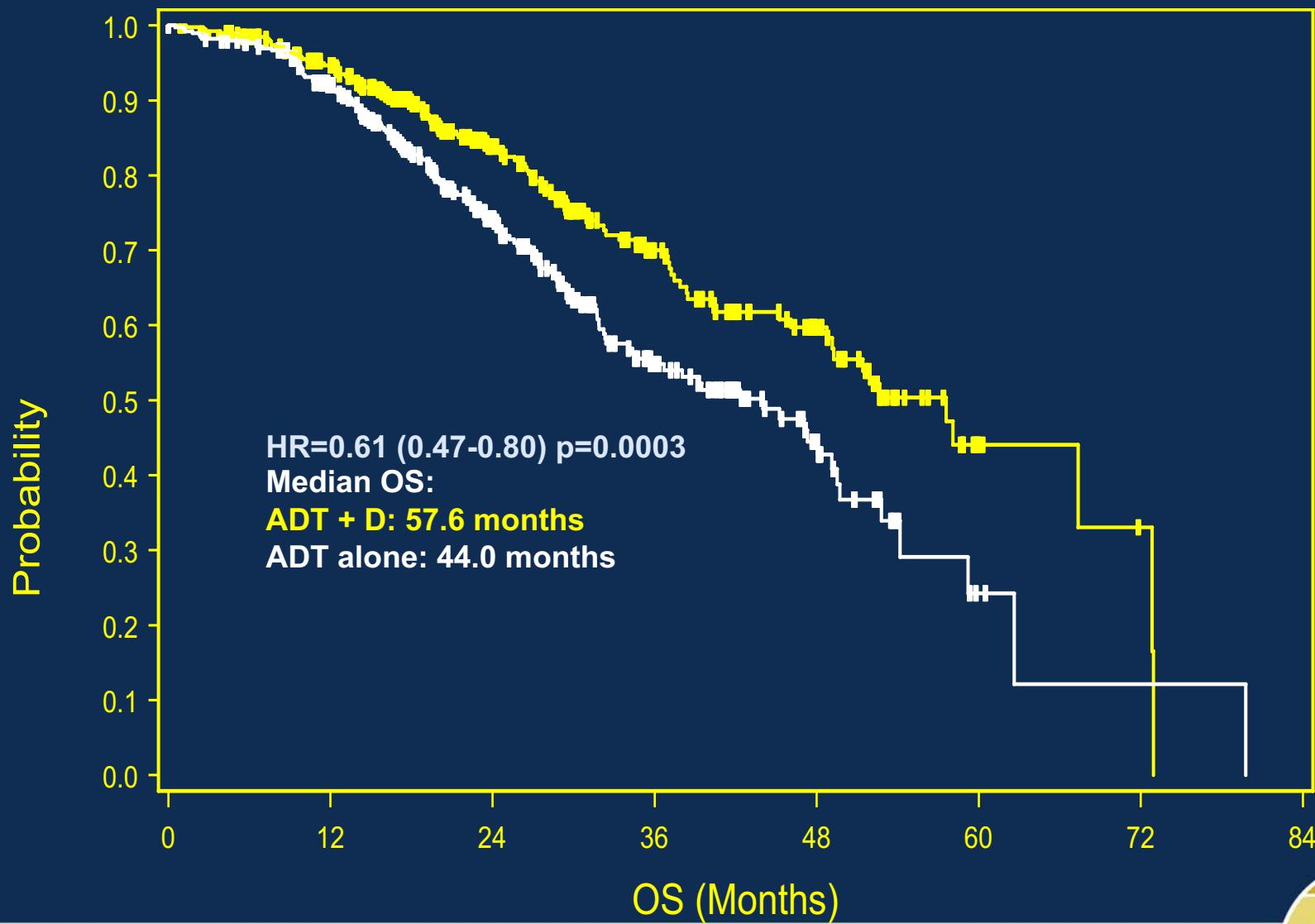
Prior Adjuvant ADT

≤ 12 vs > 12 months



- ADT allowed up to 120 days prior to randomization
- Intermittent ADT dosing was not allowed
- Standard dexamethasone premedication but no daily prednisone

Primary endpoint: Overall survival



Presented by: Christopher J. Sweeney, MBBS

PRESENTED AT:



CHAARTED: Low vs High Volume

Survival	ADT + D	ADT	p-value
LV Deaths / N (%)	51/134 (38.1%)	49/143 (34.3%)	
LV Median OS mos	63.5 (58.3, 78.5)	NR (59.8, -)	0.86
HV Deaths / N (%)	137/263 (52.1%)	162/250 (64.8%)	
HV Median OS mos	51.2 (45.2, 58.1)	34.4 (30.1, 42.1)	<0.0001

STAMPEDE

Comparison

Open: Oct-2005

Closed: Mar-2013

Accrual: 2962

Number of patients

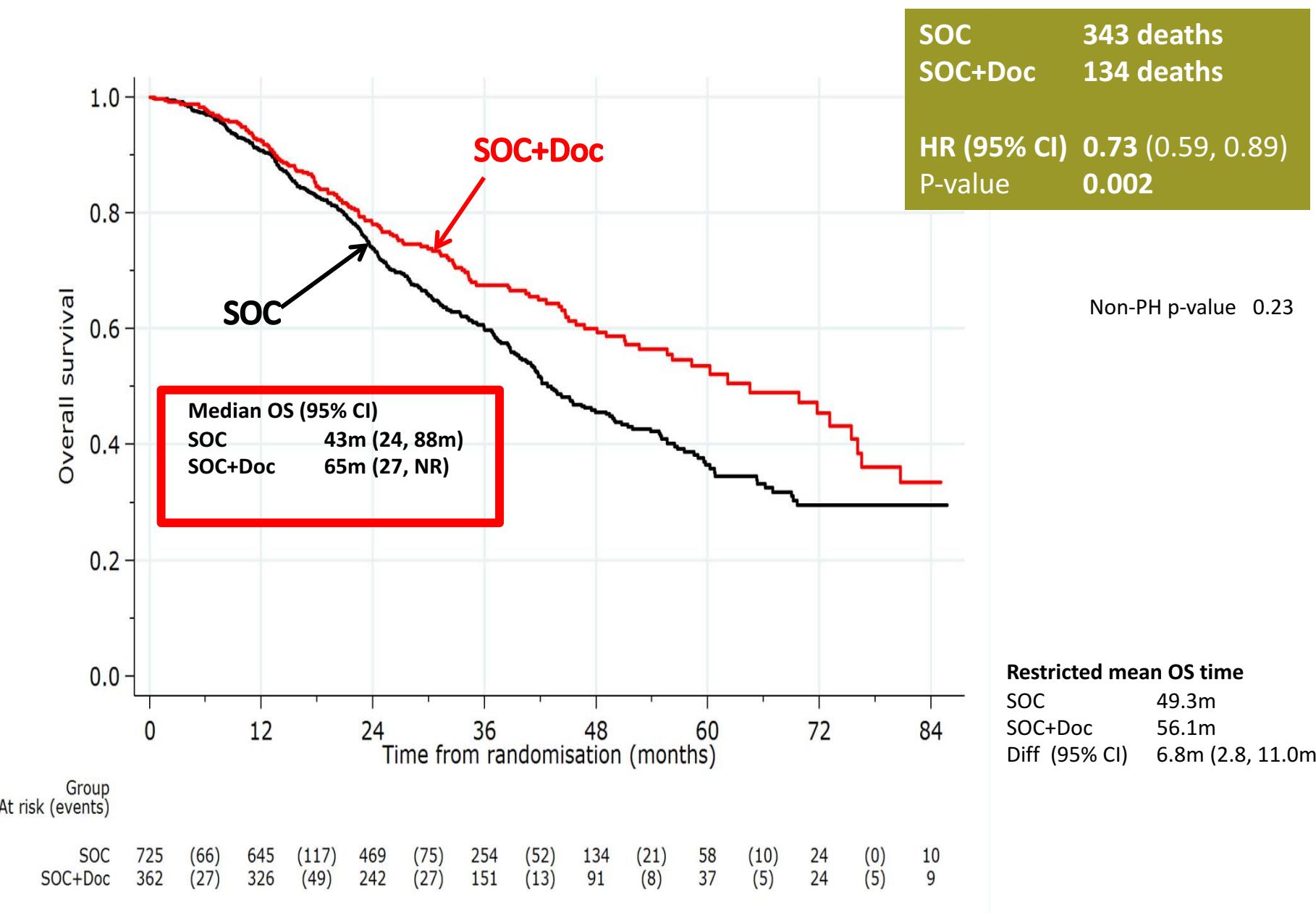
1184 A Standard-of-care (SOC)

593 B SOC + zoledronic acid

592 C SOC + docetaxel

593 E SOC + zoledronic acid + docetaxel

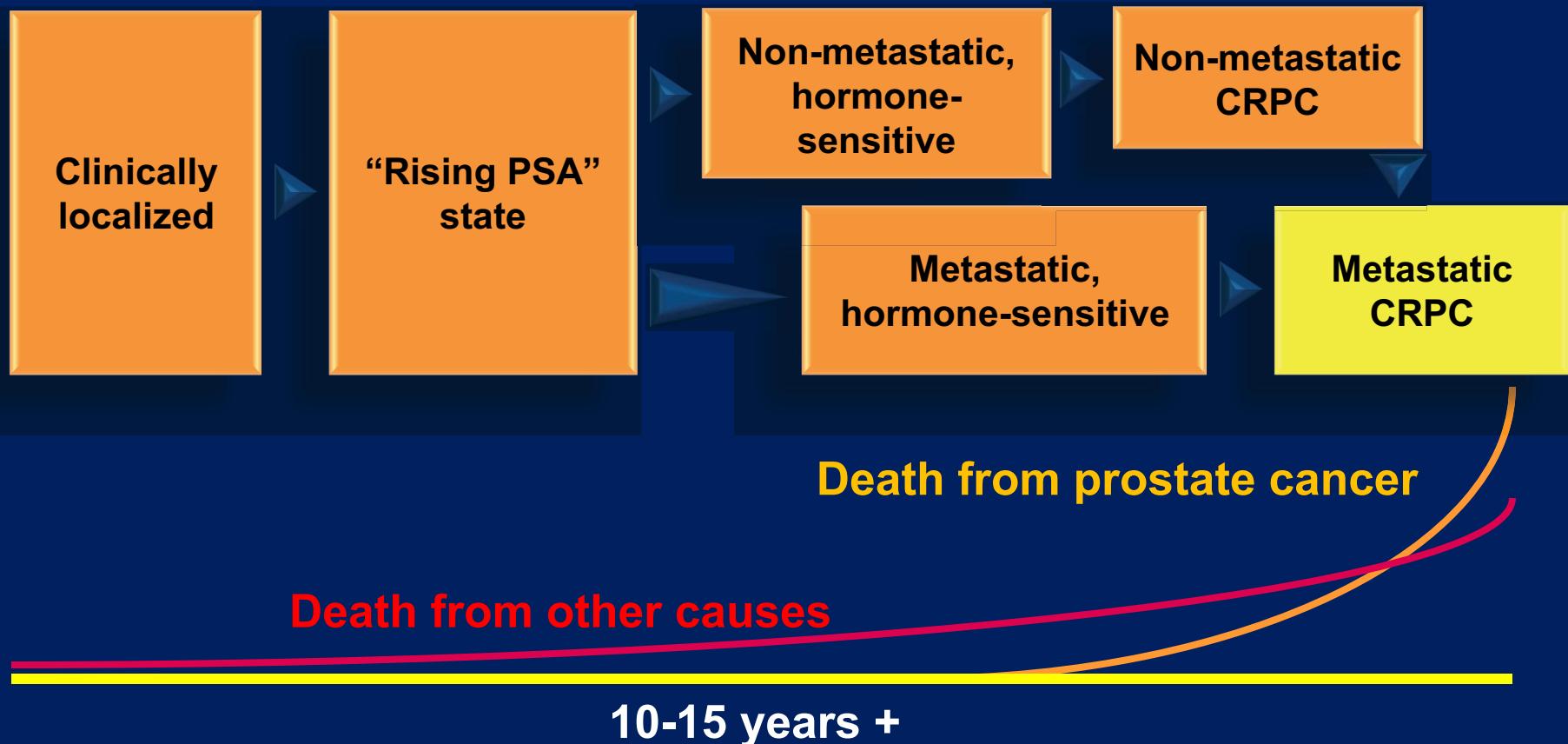
Docetaxel: Survival – M1 Patients



How do disease volume, symptoms, age factor into chemo decision in mHSPC?

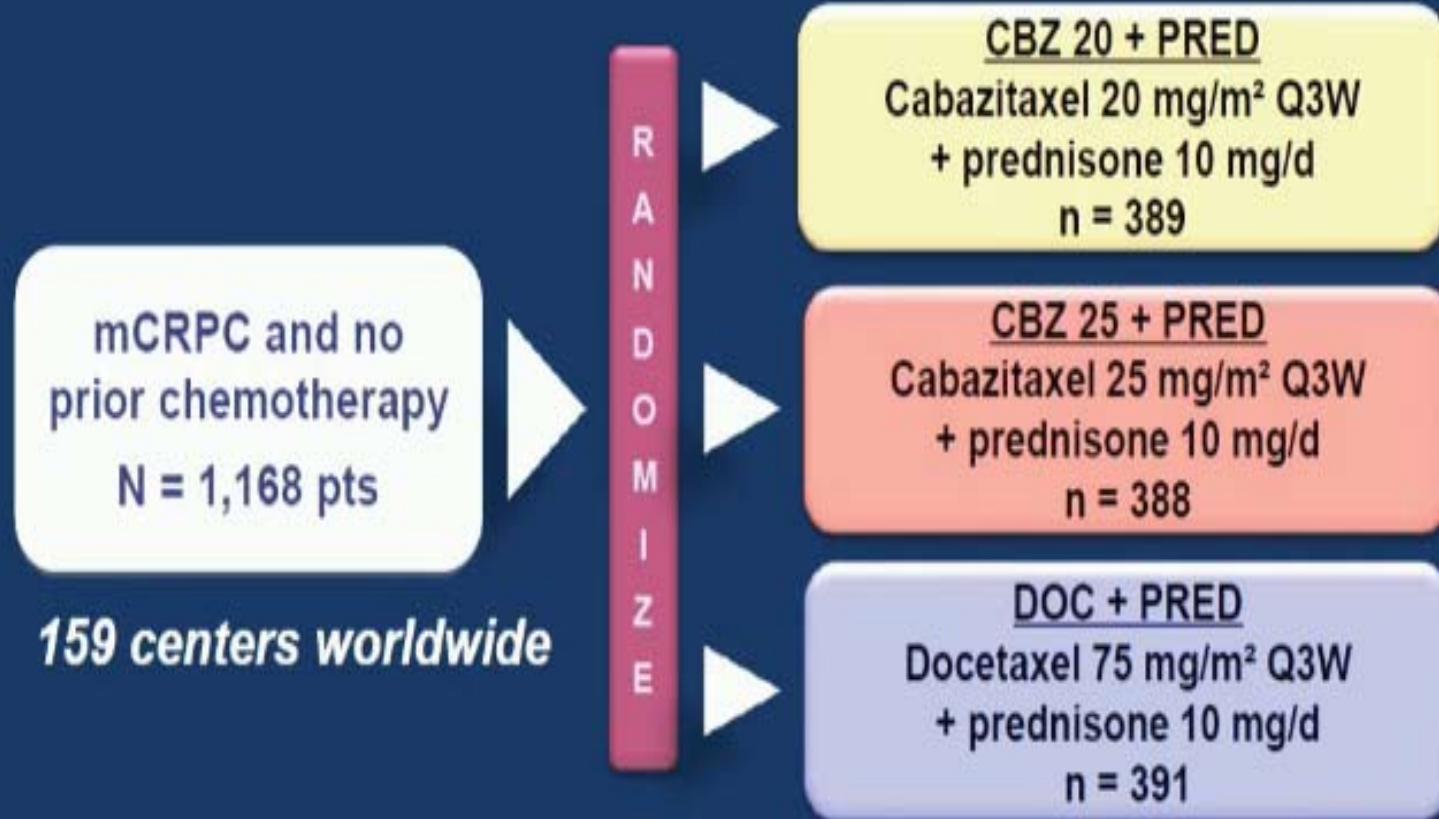
- Low vs high volume is a consideration
- Symptoms are a negative prognostic factor and will push me more towards chemo
- Age has to be a consideration
 - No absolute upper limit for chemo tolerance
 - Dose adjust or add G-CSF, as needed

Clinical States of Prostate Cancer

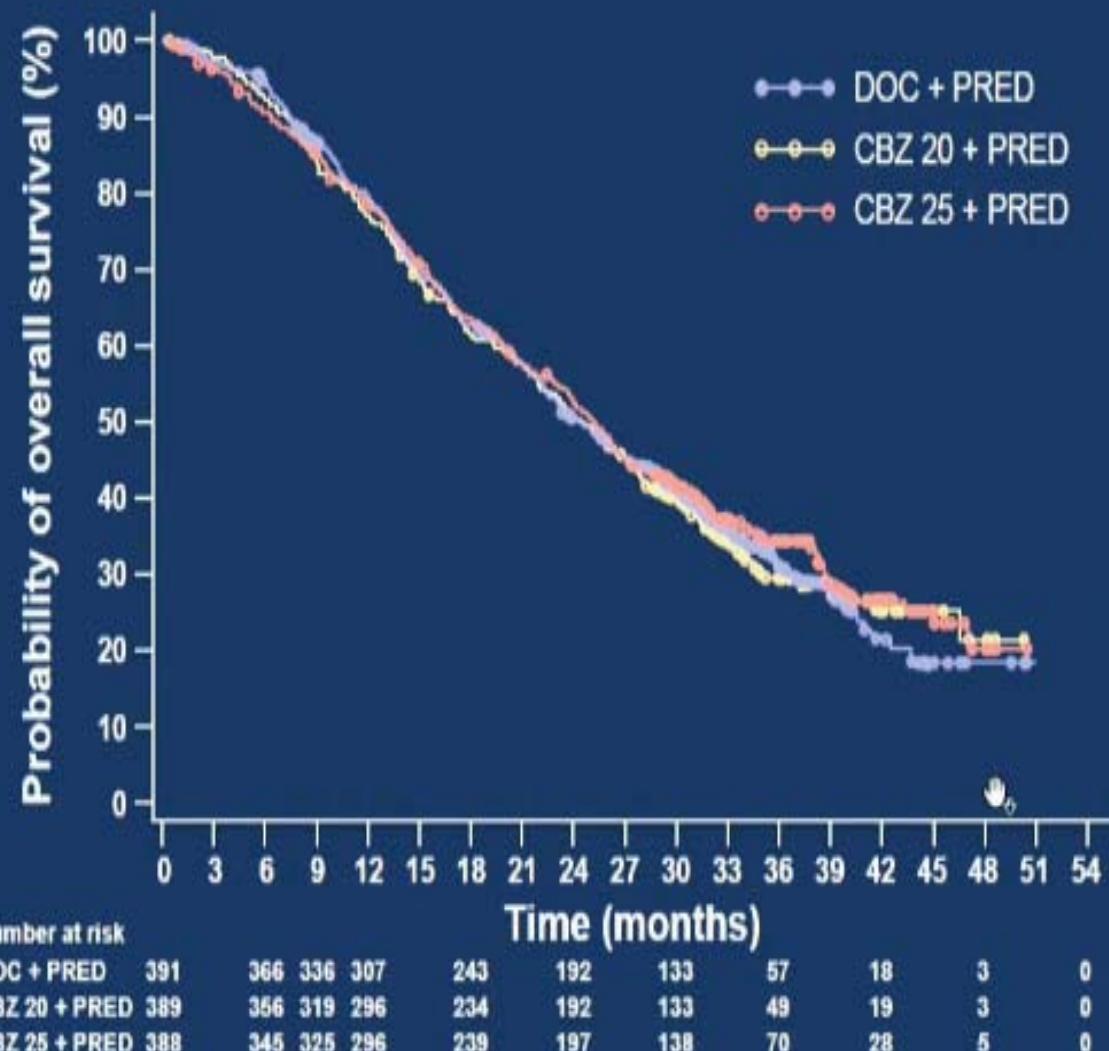


**So What Is The Optimal Use Of
Chemotherapy for mCRPC?**

FIRSTANA: Study Design



FIRSTANA: Overall Survival



Median OS, months (95% CI)

DOC + PRED 24.3 (22.18–27.60)

CBZ 20 + PRED 24.5 (21.75–27.20)

CBZ 25 + PRED 25.2 (22.90–26.97)

CBZ 20 vs DOC

HR 1.009 (0.85–1.197)

P = 0.9967

CBZ 25 vs DOC

HR 0.97 (0.819–1.16)

P = 0.7574

FIRSTANA: Selected Toxicities (%)

TOXICITY	DOC + PRED	CBZ 20 + PRED	CBZ 25 + PRED
Febrile neutropenia	8.3	2.4	12.0
Diarrhea	37.0	32.5	49.9
Hematuria	3.6	20.3	25.1
Peripheral neuropathy	25.1	11.7	12.3
Peripheral edema	20.4	9.8	7.7
Alopecia	39.0	8.9	13.0
Nail disorder	9.0	0.3	0.8

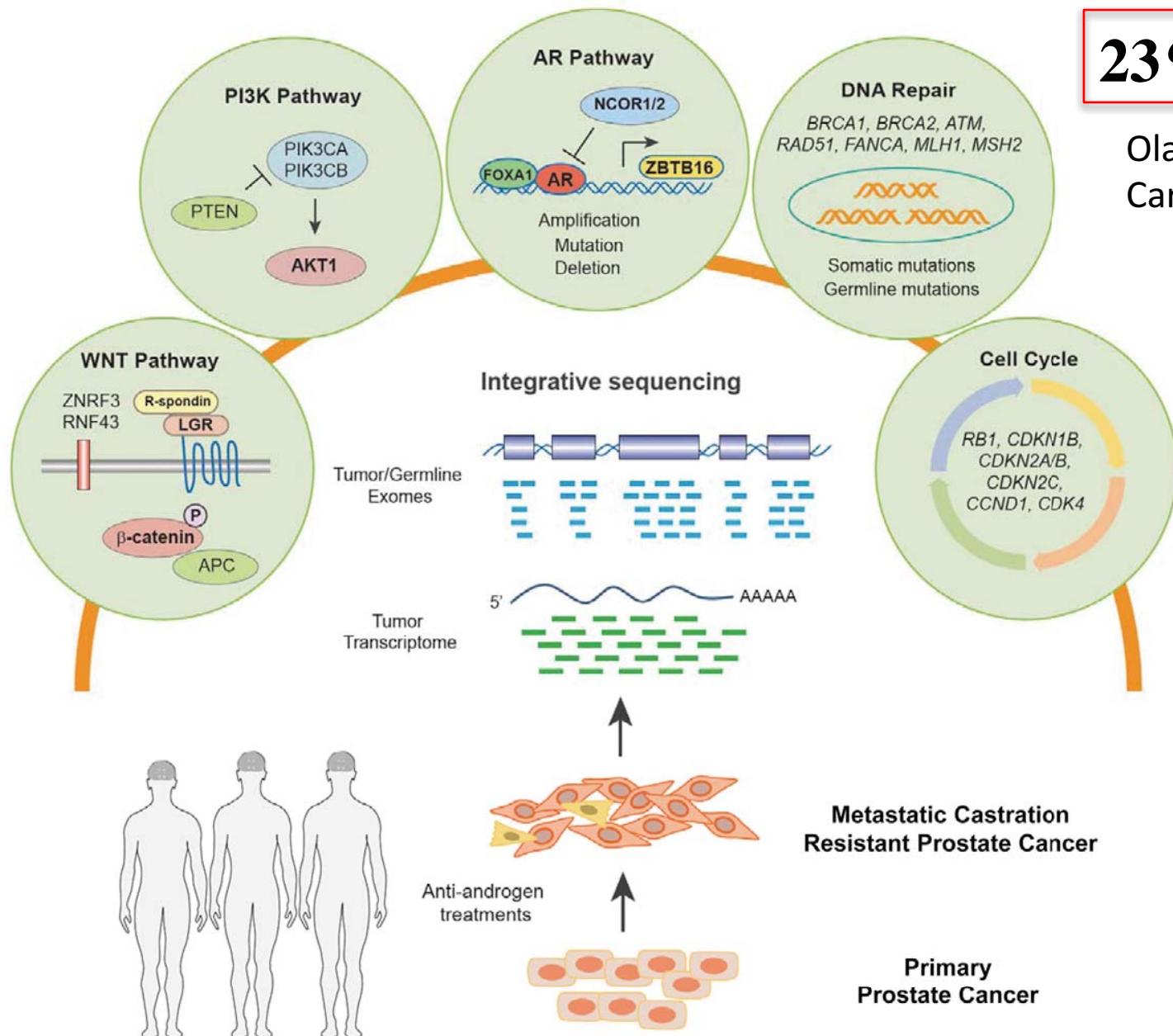
Conclusions

- Therapeutic targeting of tubulins is clinically relevant
 - Docetaxel, cabazitaxel
- Cabazitaxel is equivalent to docetaxel in first line mCRPC
- Should differential toxicity profiles play a role in the selection of a taxane?

Can Molecular Defects in CRPC Drive Therapeutic Choice?

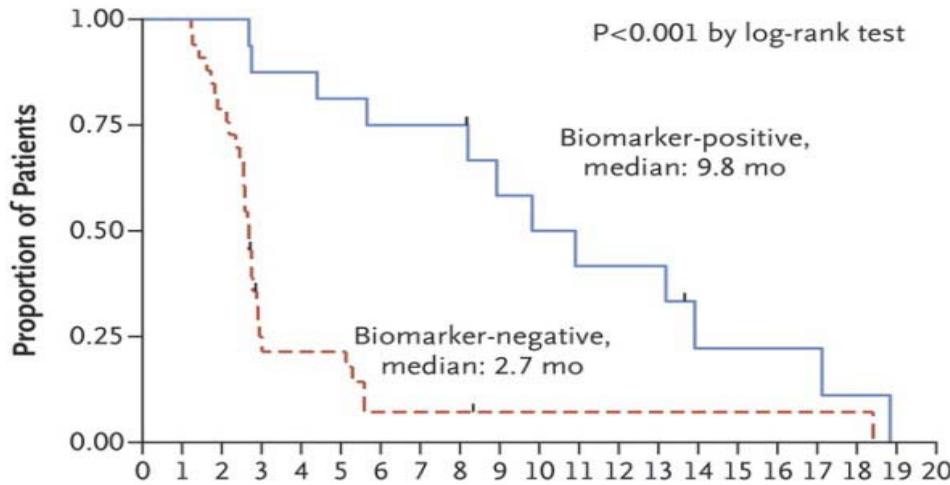
23%

Olaparib
Carboplatin

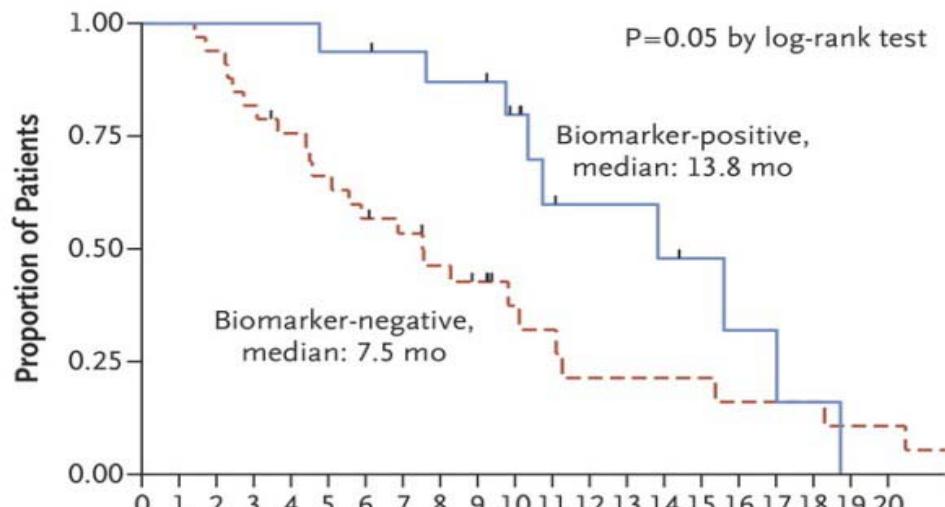


DNA Repair Defects → Olaparib Benefit

A Radiologic Progression-free Survival



B Overall Survival



Months since Trial Entry

Mateo NEJM 373:1697, 2015

Carboplatin in mCRPC

- N = 141 patients rx'd: carbo +/- docetaxel
- 8 (5.7%) with germline BRCA2 mutations
 - 63% had PSA response to carbo
 - 17% of non-BRCA2 carriers
 - p = 0.008
- Should BRCA2 carriers with prostate cancer receive carboplatin?

Treatment Landscape

