

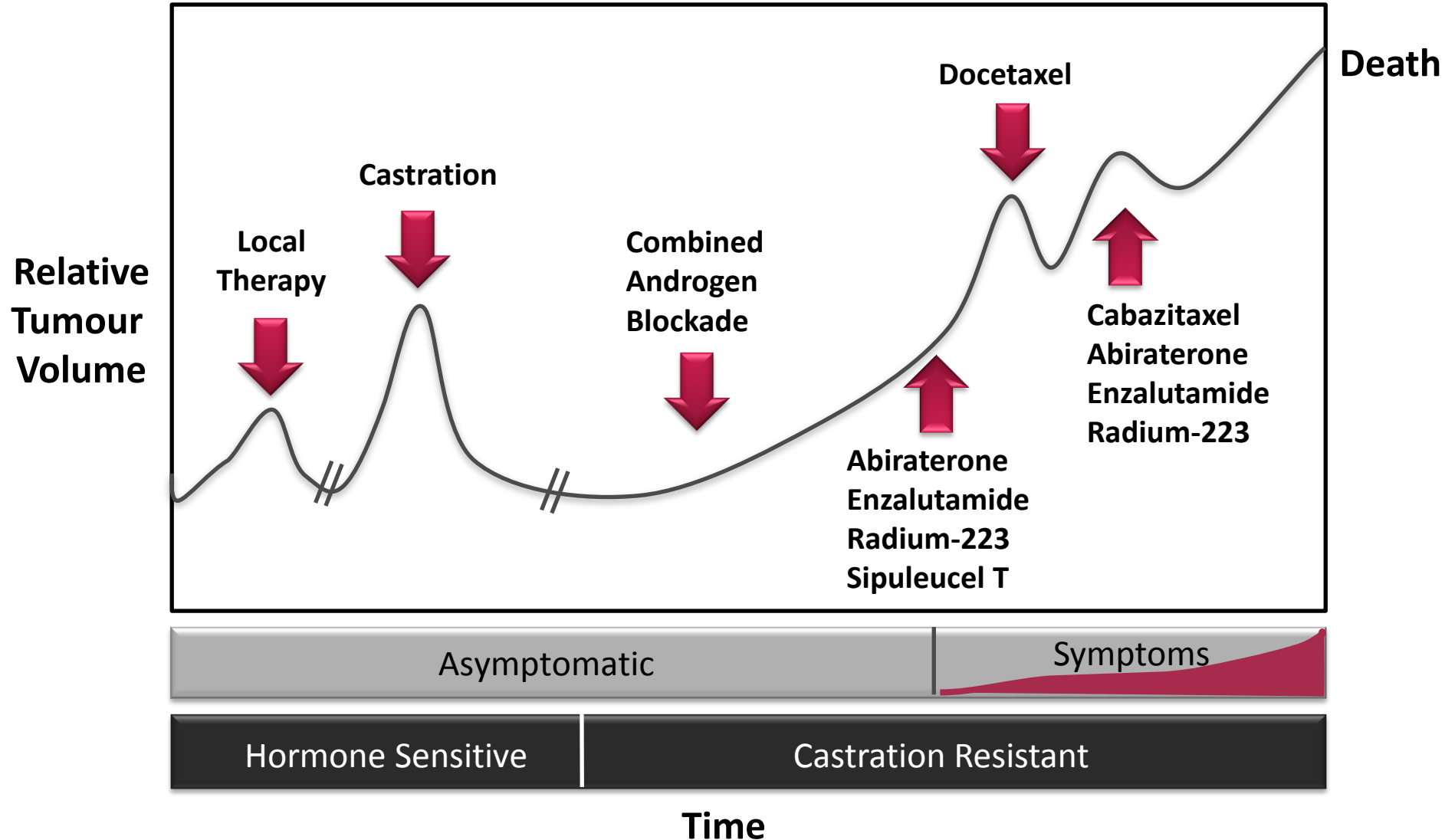
The role of chemotherapy as first line treatment

Dr Simon Crabb

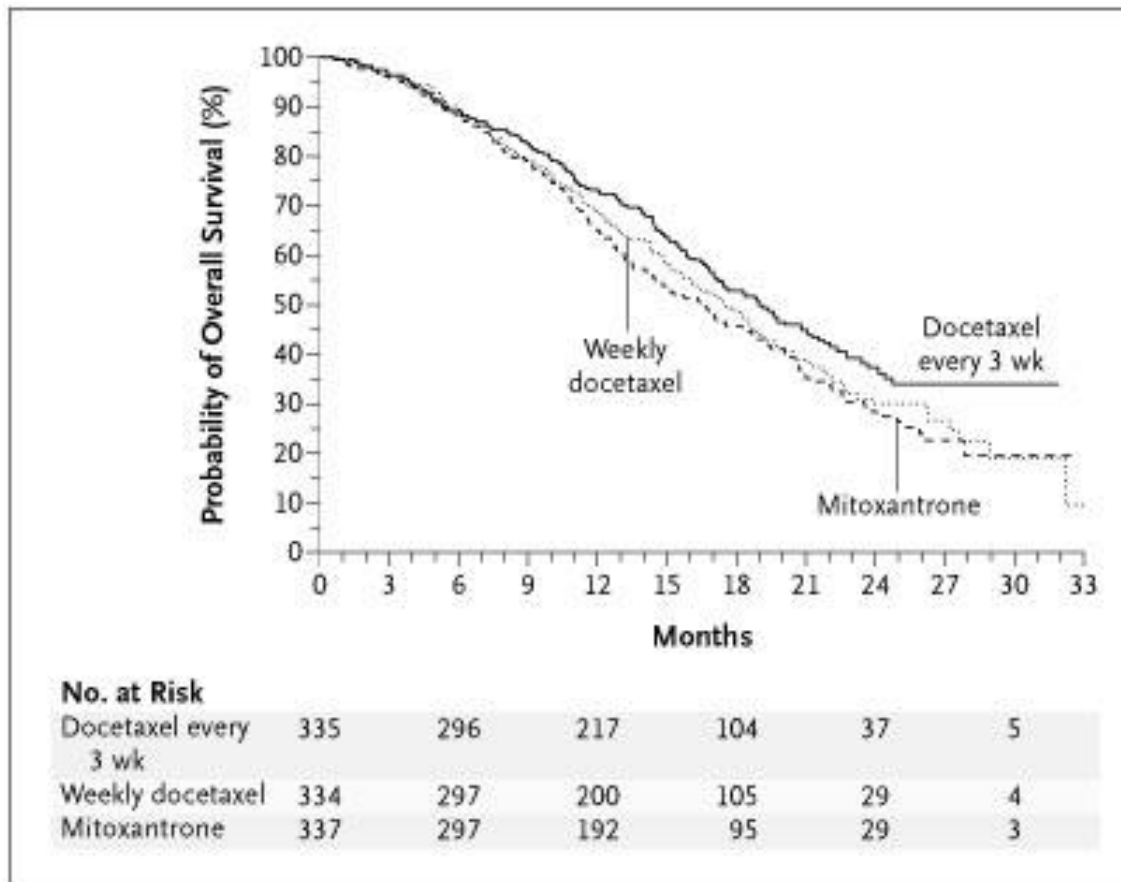
University of Southampton



Where we were...



Docetaxel for mCRPC



Median survival

D3 – 19.2 months

D1 – 17.8 months

M – 16.3 months

Improvements also in:

- QOL
- Pain
- PSA response

'Up front' docetaxel?

Pros

- Improved survival
- Prolonged time to clinical progression

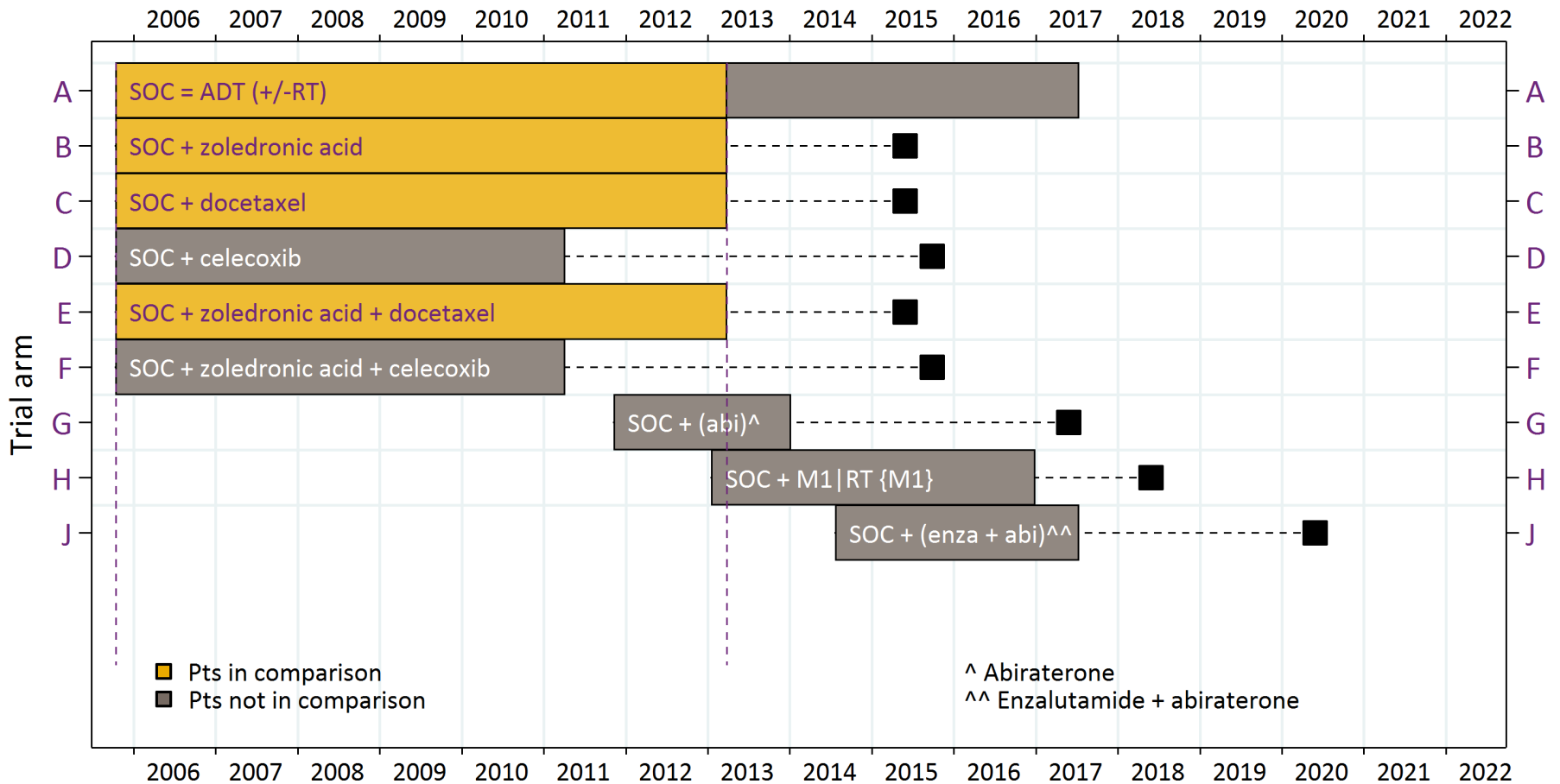
Pros (potentially)

- Improved toxicity profile?
- Quality of life benefit?
- Allow some to benefit that could not do so later due to frailty at progression?
- Cost effectiveness?

Cons (potentially)

- Expose more patients to toxicity
- Some may never 'need' chemo
- Cost effectiveness?
- Our data for subsequent management is very limited

STAMPEDE: Comparisons to date



Docetaxel Target Dose: 75mg/m², every 3 weeks for 6 cycles (+prednisolone 10mg od)

STAMPEDE: Inclusion criteria

Newly-diagnosed

Any of:

- Metastatic
- Node-Positive
- ≥ 2 of: Stage T3/4
PSA ≥ 40 ng/ml
Gleason 8-10

Relapsing after previous RP or RT with ≥ 1 of:

- PSA ≥ 4 ng/ml and rising with doubling time < 6 m
- PSA ≥ 20 ng/ml
- Node-positive
- Metastatic

All patients

Fit for all protocol treatment

Fit for follow-up

WHO performance status 0-2

Written informed consent

Full criteria and slide set

www.stampededtrial.org

STAMPEDE: Outcome measures

Primary outcome measure

Overall survival

Secondary outcome measures

Failure-free survival (FFS)

Toxicity

Quality of life

Skeletal-related events

Cost effectiveness

FFS definition

First of:

PSA failure

Local failure

Lymph node failure

Distant metastases

Prostate cancer death

PSA failure definition

PSA fall $\geq 50\%$

→ 24wk nadir + 50% **and**

→ $>4\text{ng/ml}$

PSA fall of $<50\%$

→ failure at $t=0$

STAMPEDE: Patient characteristics

Comparison

Open: Oct-2005
Closed: Mar-2013
Accrual: 2962

Number of patients

1184 Standard-of-care (SOC)
593 SOC + zoledronic acid
592 SOC + docetaxel
593 SOC + zoledronic acid + docetaxel

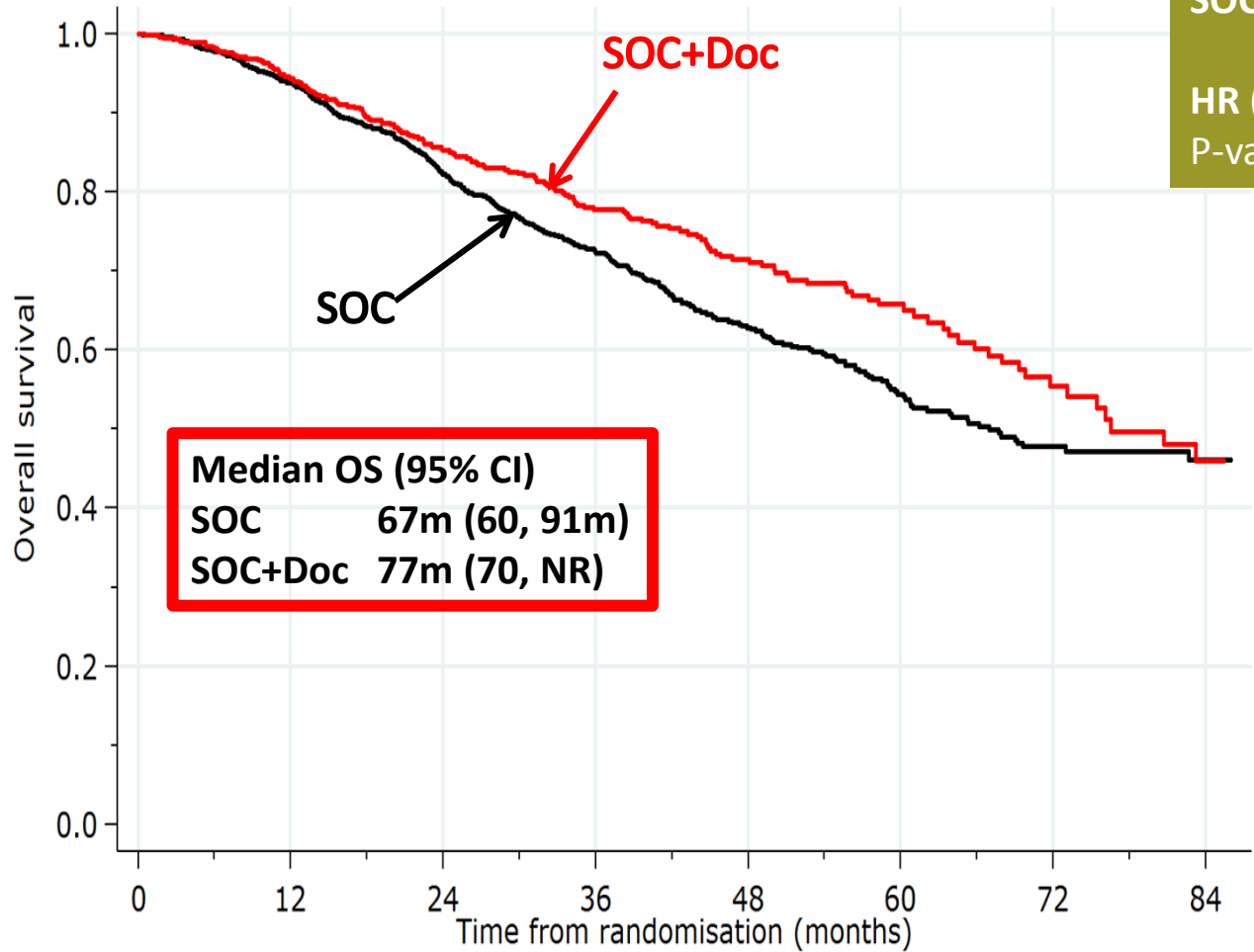
1% WHO PS 2 [s]
21% WHO PS 1 [s]
65yr Median age [s]
(min 40, max 84)
61% Metastatic [s]
(85% Bony mets)
15% N+M0
24% N0M0
98% LHRH analogues [s]
29% Planned for RT [s]
(72% of N0M0 pts)
6% Previous local therapy

Balanced by arm

[s] Stratification factors + hospital + NSAID/aspirin

STAMPEDE: Survival +/- docetaxel

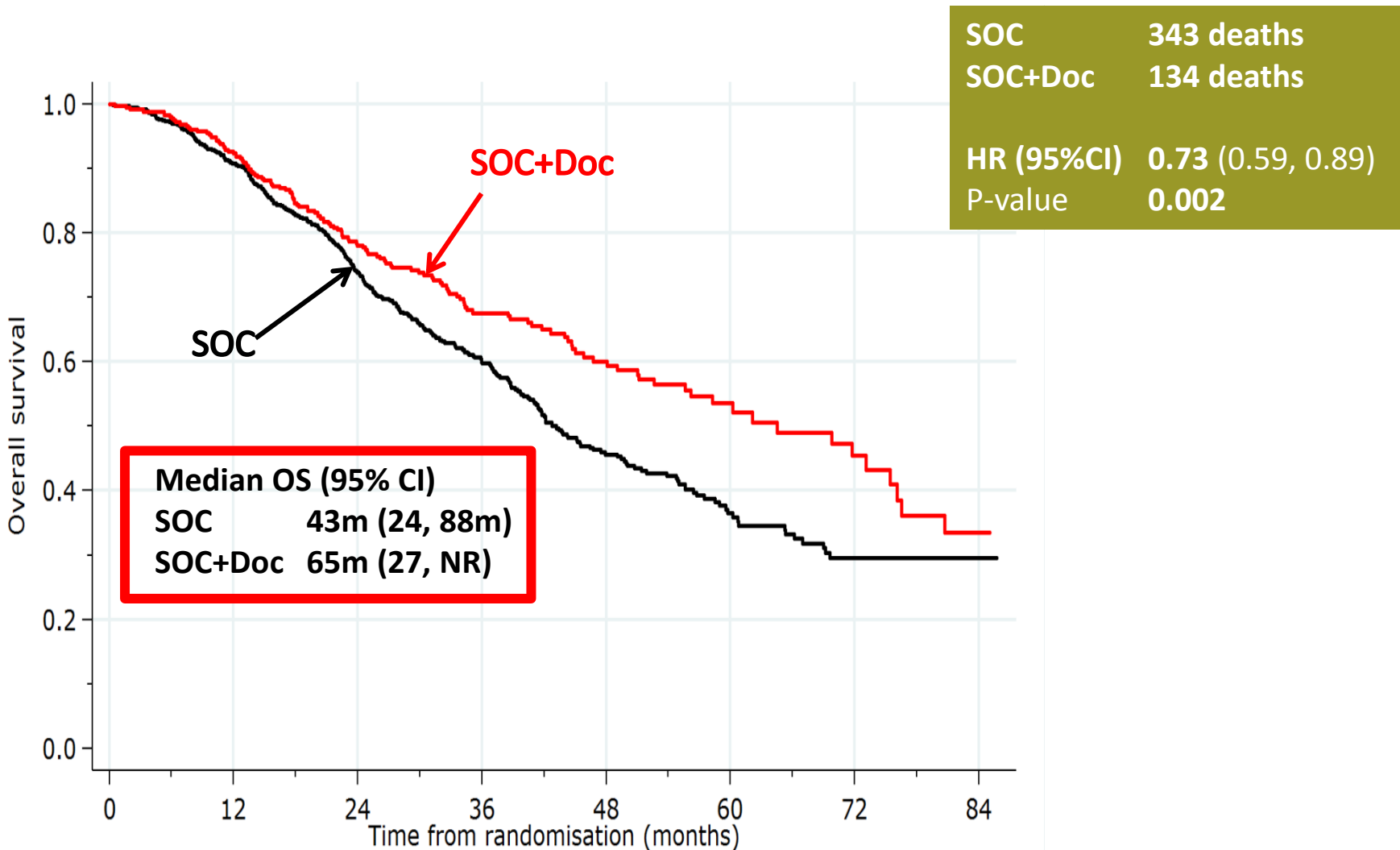
SOC	405 deaths
SOC+Doc	165 deaths
HR (95%CI)	0.76 (0.63, 0.91)
P-value	0.003



Group
At risk (events)

SOC	1184	(73)	1092	(130)	860	(89)	521	(59)	310	(33)	156	(17)	81	(2)	36
SOC+Doc	592	(33)	545	(51)	437	(32)	283	(19)	180	(12)	91	(12)	48	(6)	18

STAMPEDE: Survival in M1 Patients +/- docetaxel

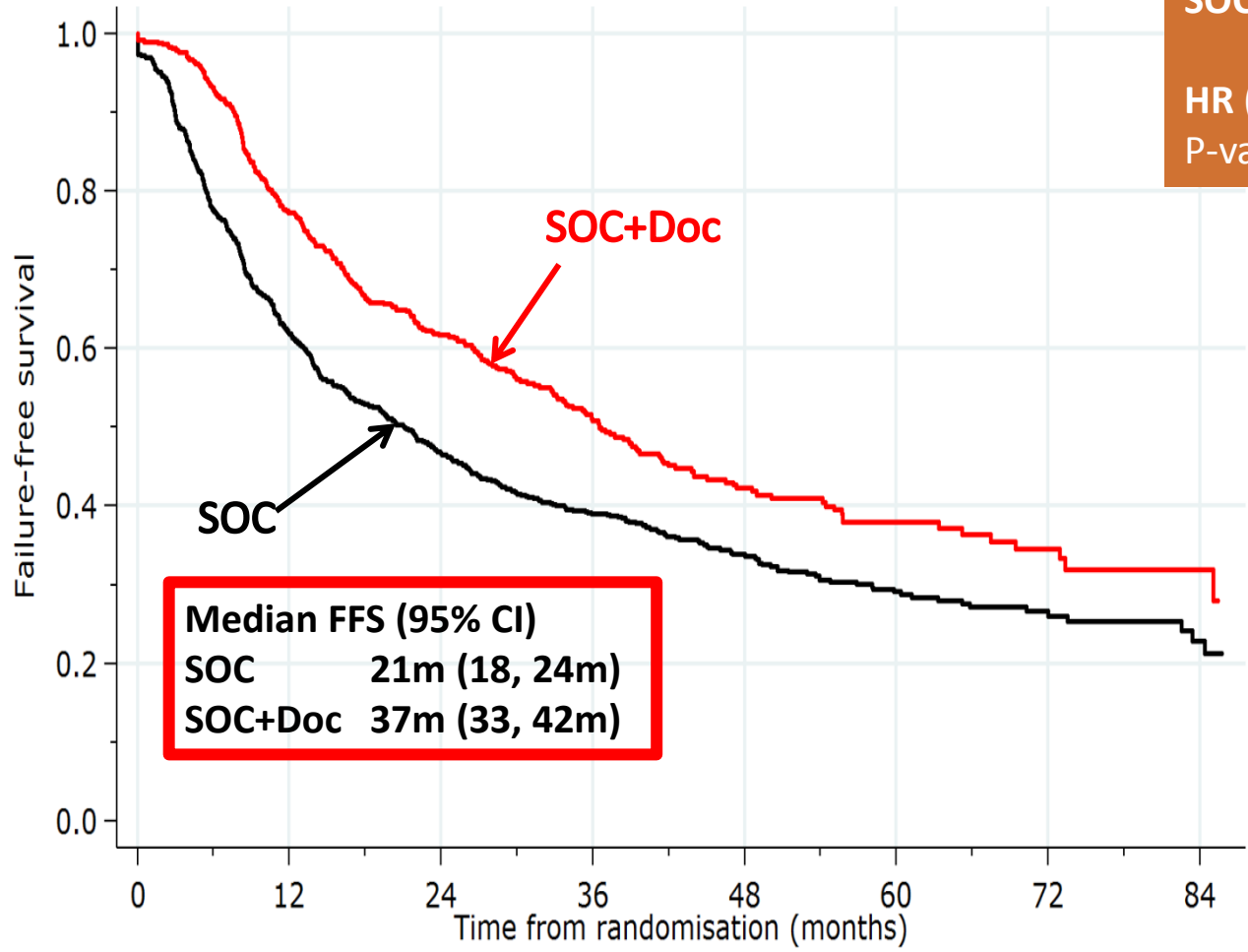


Group
At risk (events)

SOC	725	(66)	645	(117)	469	(75)	254	(52)	134	(21)	58	(10)	24	(0)	10
SOC+Doc	362	(27)	326	(49)	242	(27)	151	(13)	91	(8)	37	(5)	24	(5)	9

STAMPEDE: Failure-free survival +/- docetaxel

SOC	750 FFS events
SOC+Doc	371 FFS events
HR (95%CI)	0.62 (0.54, 0.70)
P-value	<0.000000001*



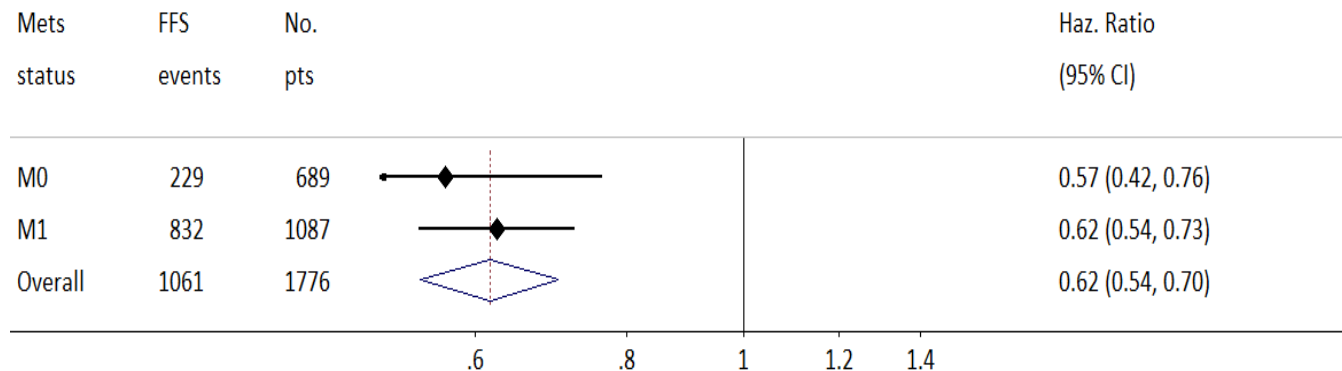
Group
At risk (events)

SOC	1184	(446)	713	(173)	488	(70)	287	(31)	161	(19)	84	(6)	45	(4)	17
SOC+Doc	592	(131)	441	(88)	318	(48)	184	(27)	105	(9)	56	(4)	29	(2)	11

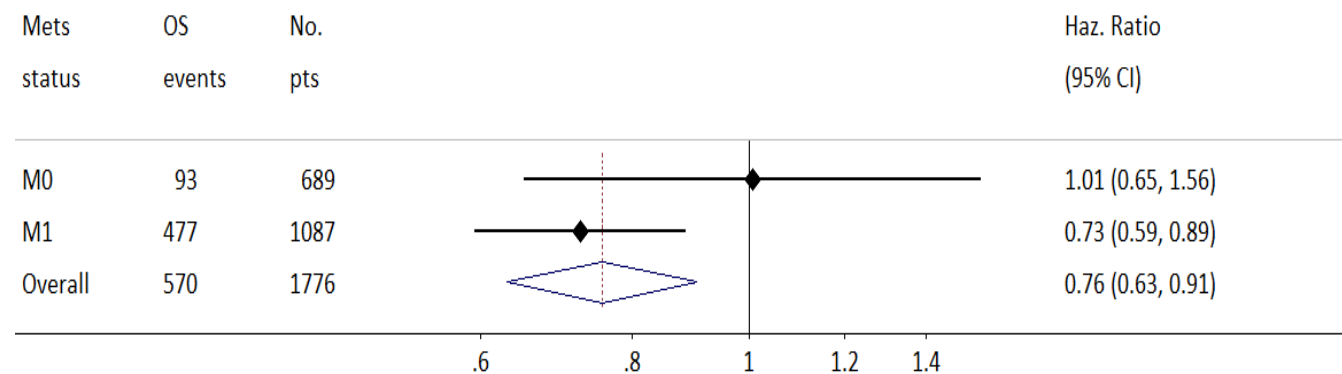
STAMPEDE: Docetaxel effect by metastatic status

Pre-planned analysis

Failure free survival +/- Doc



Overall survival +/- Doc



STAMPEDE: Grade 3+ adverse events ever reported

	A SOC	B SOC+ZA	C SOC+Doc	E SOC+ZA+ Doc
Patients randomised	1184	593	592	593
Patients with adverse event data	1174	587	579	564
Grade 3-5 AE (G5) N	363 (3)	185 (1)	291 (3)	294 (7)
%	31%	31%	51%	52%
Endocrine disorder	12%	12%	10%	12%
Blood and lymphatic (<i>febrile neutropenia</i>)	1%	2%	12%	12%
Blood/bone marrow (<i>neutrophils</i>)	1%	1%	12%	11%
General disorder	4%	5%	8%	11%
Musculo-skeletal	5%	5%	6%	8%
Gastrointestinal disorder	3%	3%	7%	7%
Renal	5%	4%	4%	6%

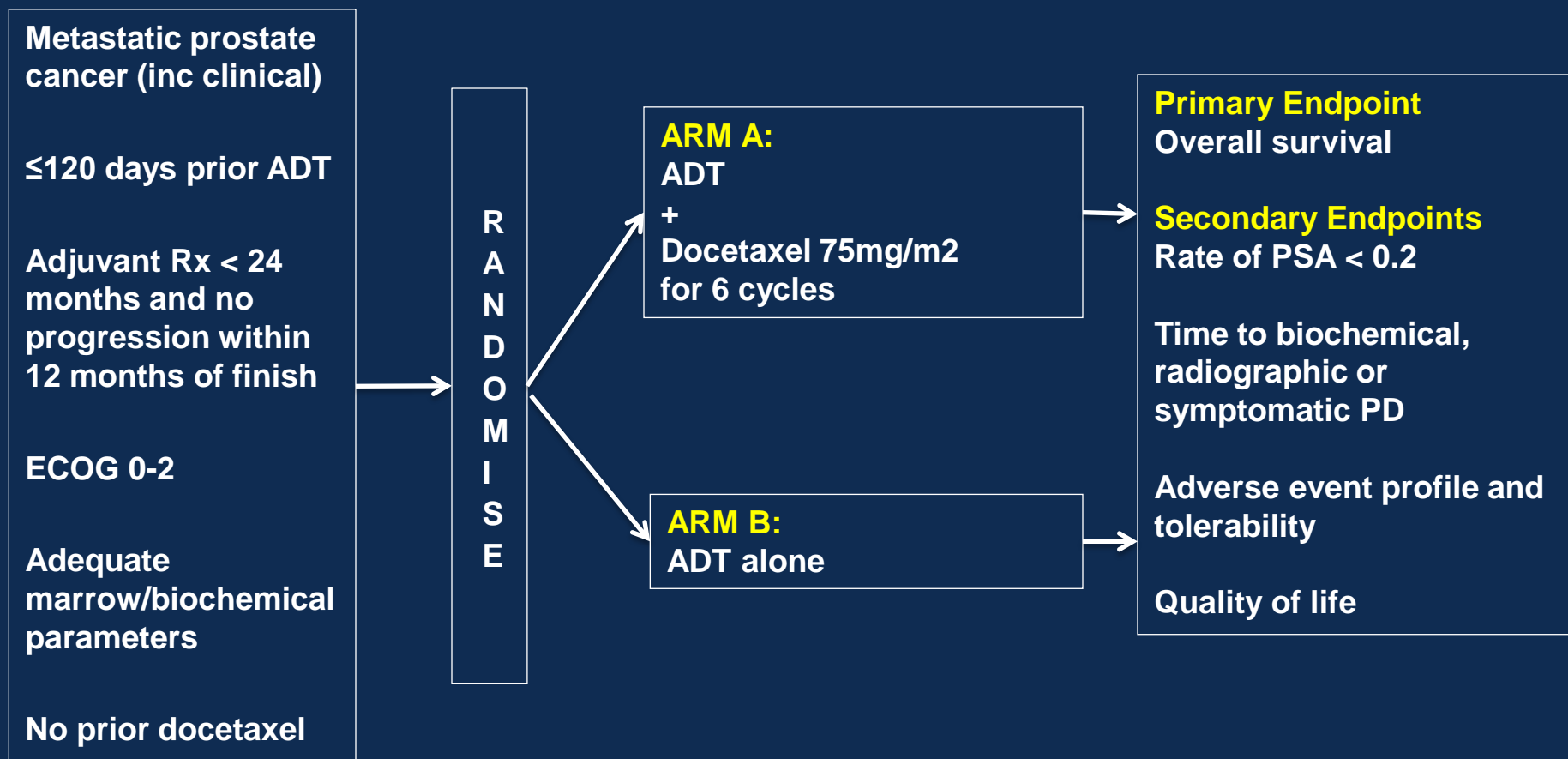
STAMPEDE: Grade 3+ adverse events at 1 year

Treatment	Incidence	Rate	95%CI
SOC	71/732	9.7%	(7.6% to 11.8%)
SOC+ZA	40/377	10.6%	(7.5% to 13.7%)
SOC+Doc	44/437	10.1%	(7.2% to 12.9%)
SOC+ZA+Doc	51/450	11.3%	(8.4% to 14.3%)

Early peak in toxicity during chemotherapy seems to settle by 1 year

CHAARTED

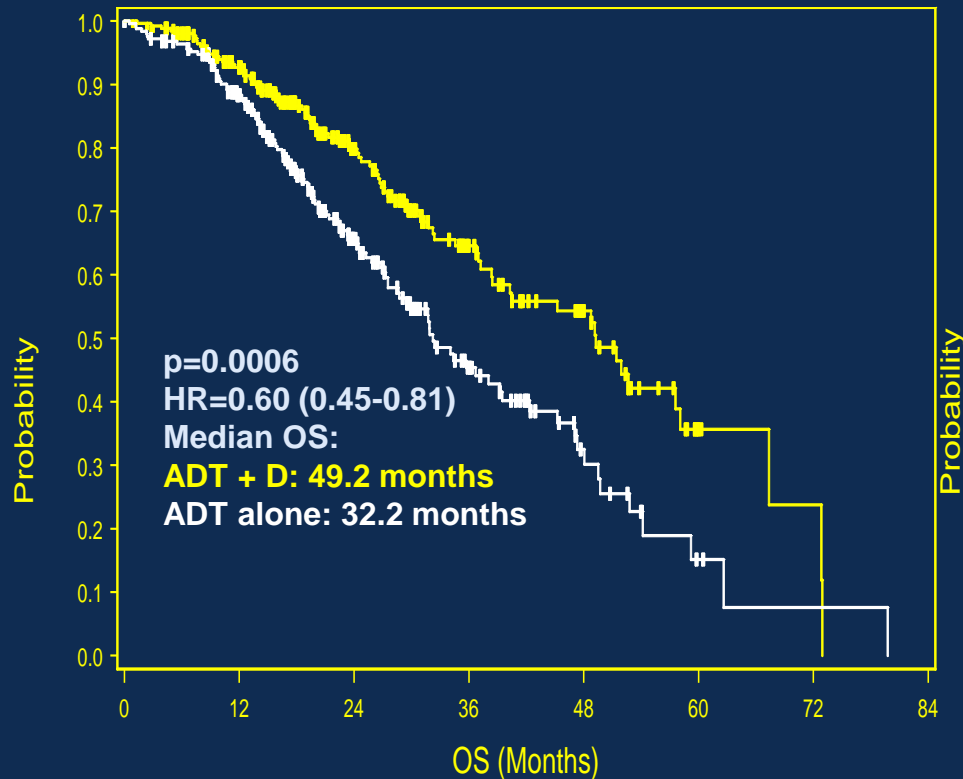
Sweeney et al, N Engl J Med, 2015



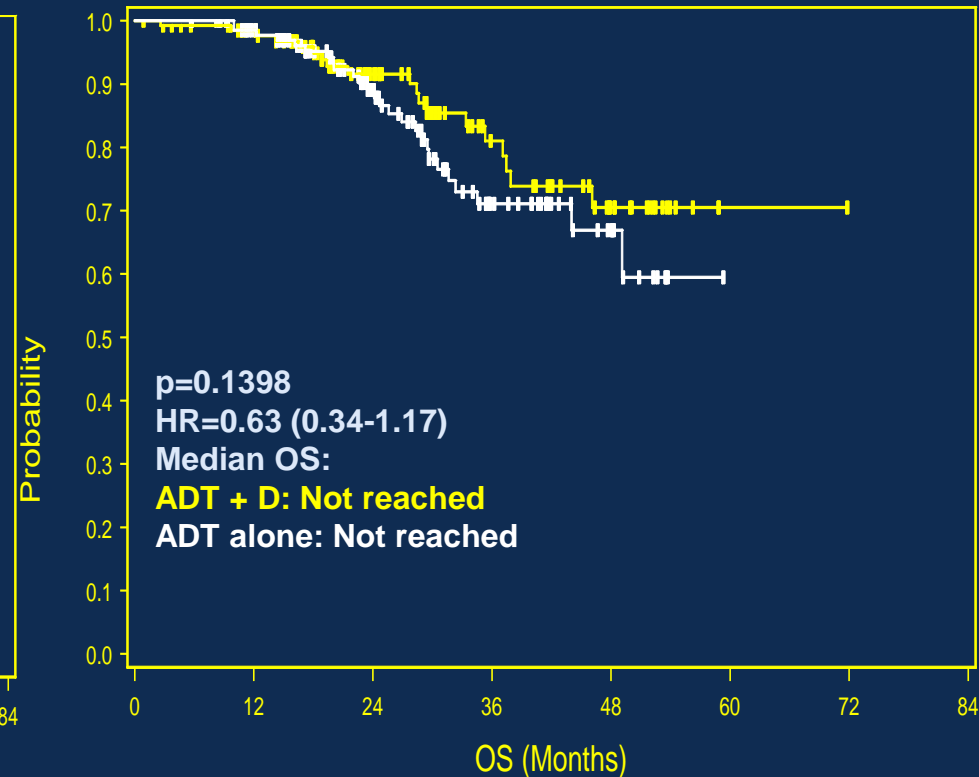
- Intermittent ADT dosing not allowed
- Standard dexamethasone premedication but no daily prednisone
- Treatment at investigator's discretion at progression

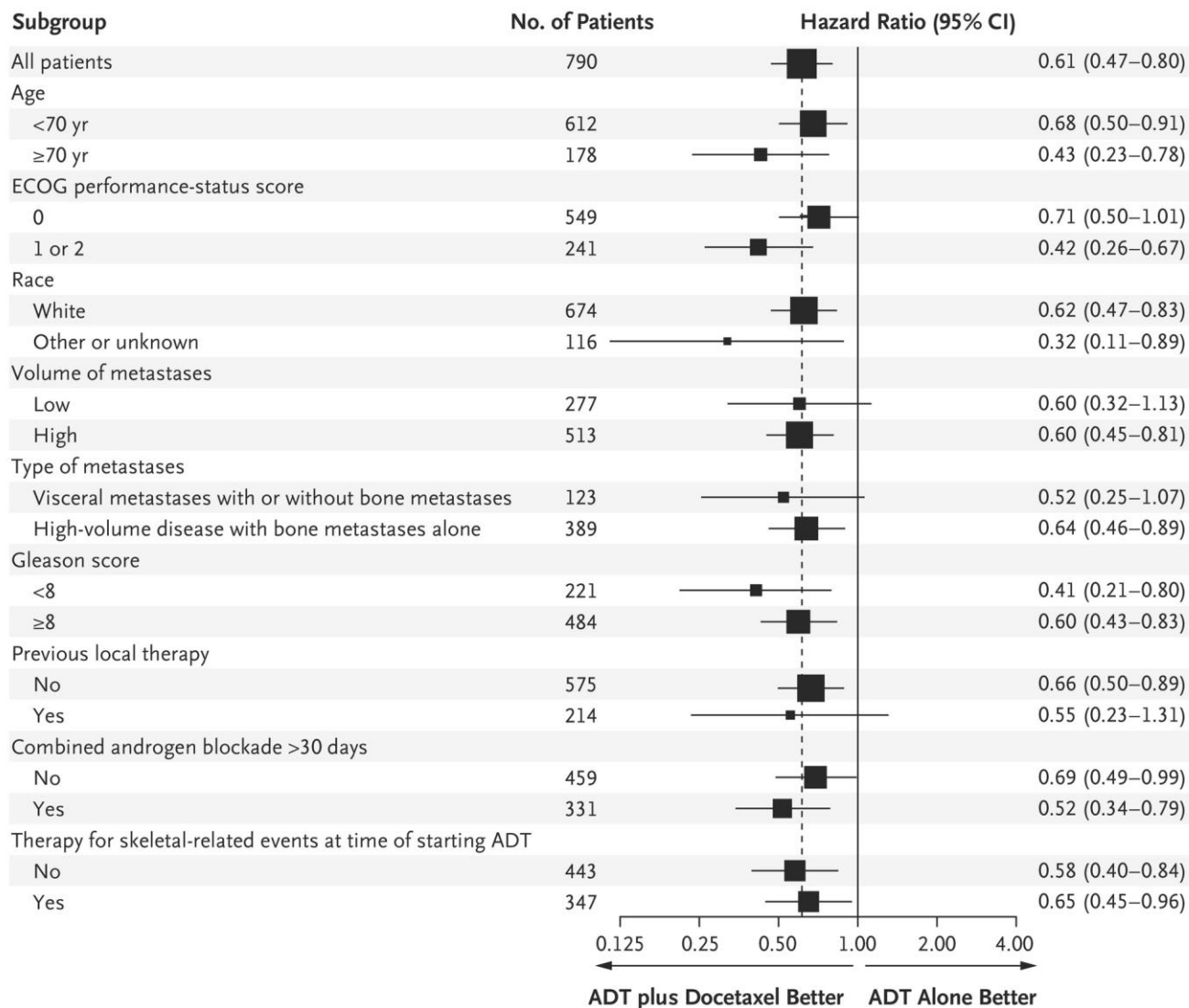
OS by extent of metastatic disease

High volume

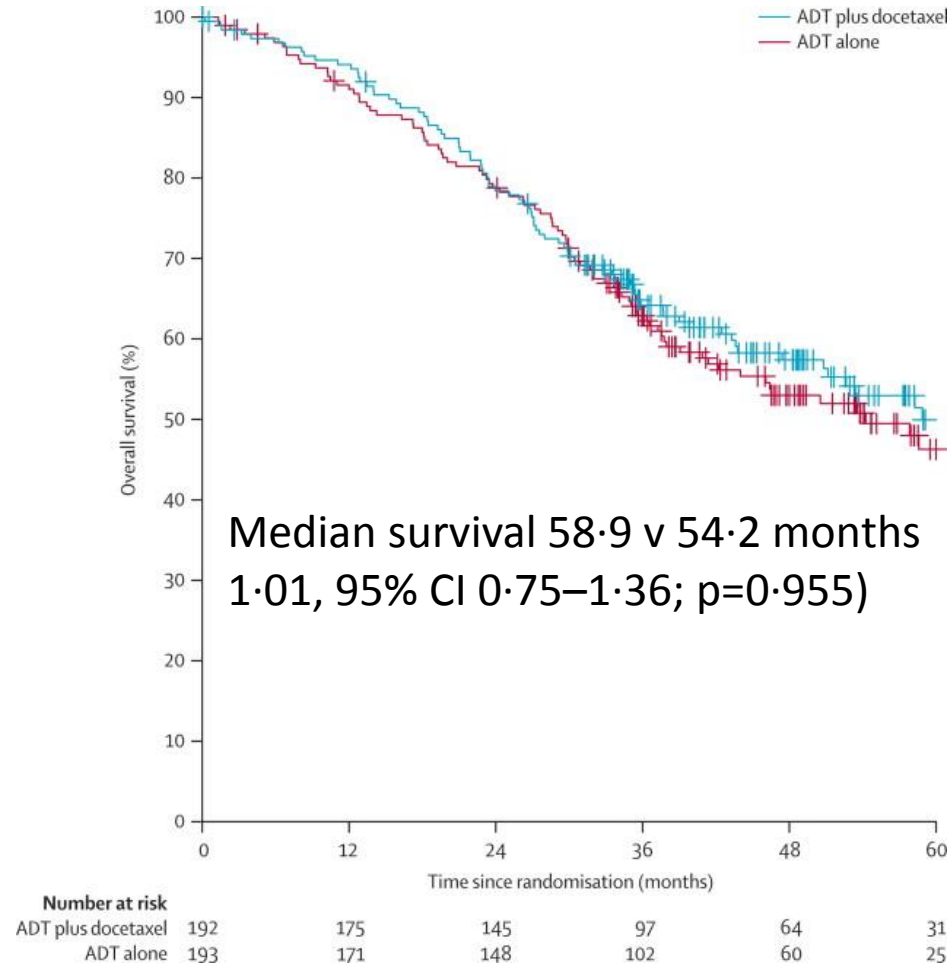


Low volume





The French Trial



Conclusions (in my opinion)

- ADT + Docetaxel is now the standard of care for hormone naive M1 prostate cancer in patients fit enough to receive it
- Clinical trials should be offered to all eligible patients as we remain unclear on much (STAMPEDE will allow docetaxel soon)

Open questions

- No cost effectiveness data yet (and access is patchy)
- No QOL data yet
- No data to support a selection strategy
- What to do for M0 patients?
- Should relapsing M1 patients be treated like de-novo M1 patients?
- We have very little data to inform subsequent management decisions if docetaxel is used up front
- How do we modify our MDT practices to incorporate this?
- What is the correct baseline imaging?