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# UPDATE ON RECENT CUTTING-EDGE TRIALS: TREATMENTS NOW AVAILABLE FOR NEWLY DIAGNOSED mHSPC PATIENTS

**Dr. Neal Shore**, Carolina Urologic Research Centre, USA

**Assoc. Prof. Neeraj Agarwal**, Huntsman Cancer Institute, USA

**Prof. Steven Joniau**, University Of Leuven, Belgium

**INTRODUCTION:  
ADVANCED TREATMENT FOR PATIENTS  
WITH ANDROGEN SENSITIVE METASTATIC  
PROSTATE CANCER...**

**WHAT IS NEW?**

- Prostate cancer accounts for around one fifth of all male cancers
- Most men with prostate cancer are given hormone therapy and this is often effective for a short time
- In most cases over time progression occurs
- Three trials have reported on this relevant topic with STAMPEDE and LATITUDE as the most recent:
  - **CHAARTED**<sup>1</sup>: Androgen ablation therapy with or without chemotherapy in treating patients with metastatic prostate cancer
  - **STAMPEDE**<sup>2</sup>: Systemic therapy in advancing or metastatic prostate cancer: evaluation of drug efficacy: a multi-stage multi-arm randomised controlled trial
  - **LATITUDE**<sup>3</sup>: A phase 3, double-blind, randomized trial of androgen deprivation therapy with abiraterone acetate plus prednisone or placebos in newly diagnosed high-risk metastatic hormone-naïve prostate cancer patients

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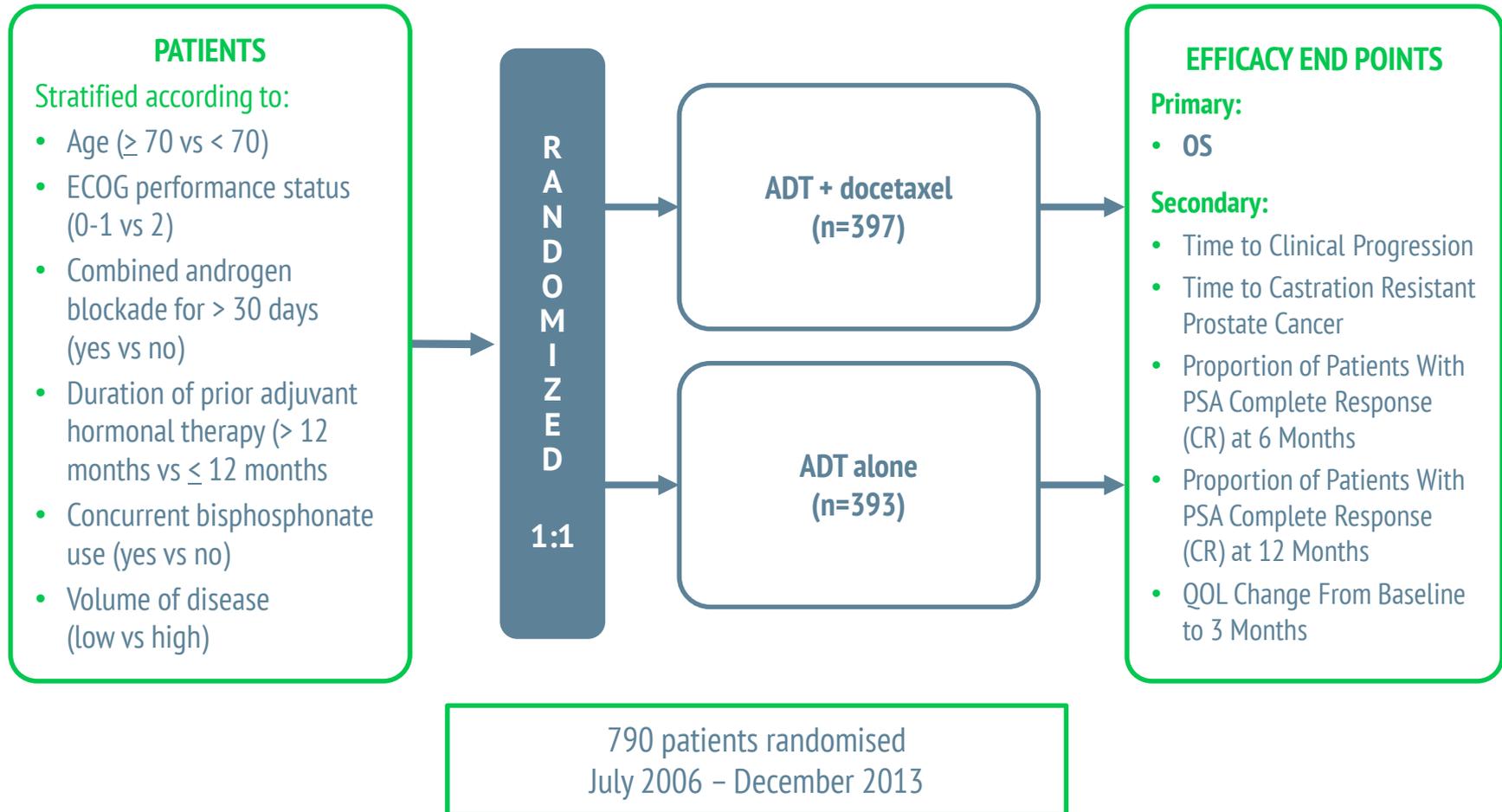
1. Sweeney, Christopher J et al. N Engl J Med 2015; 373:737-746

2. James, Nicholas D et al. N Engl J Med 2017; 377:338-351

3. Fizazi, Karim et al. N Engl J Med 2017; 377:352-360

**CHAARTED: ANDROGEN ABLATION  
THERAPY WITH OR WITHOUT  
CHEMOTHERAPY IN TREATING PATIENTS  
WITH METASTATIC PROSTATE CANCER**

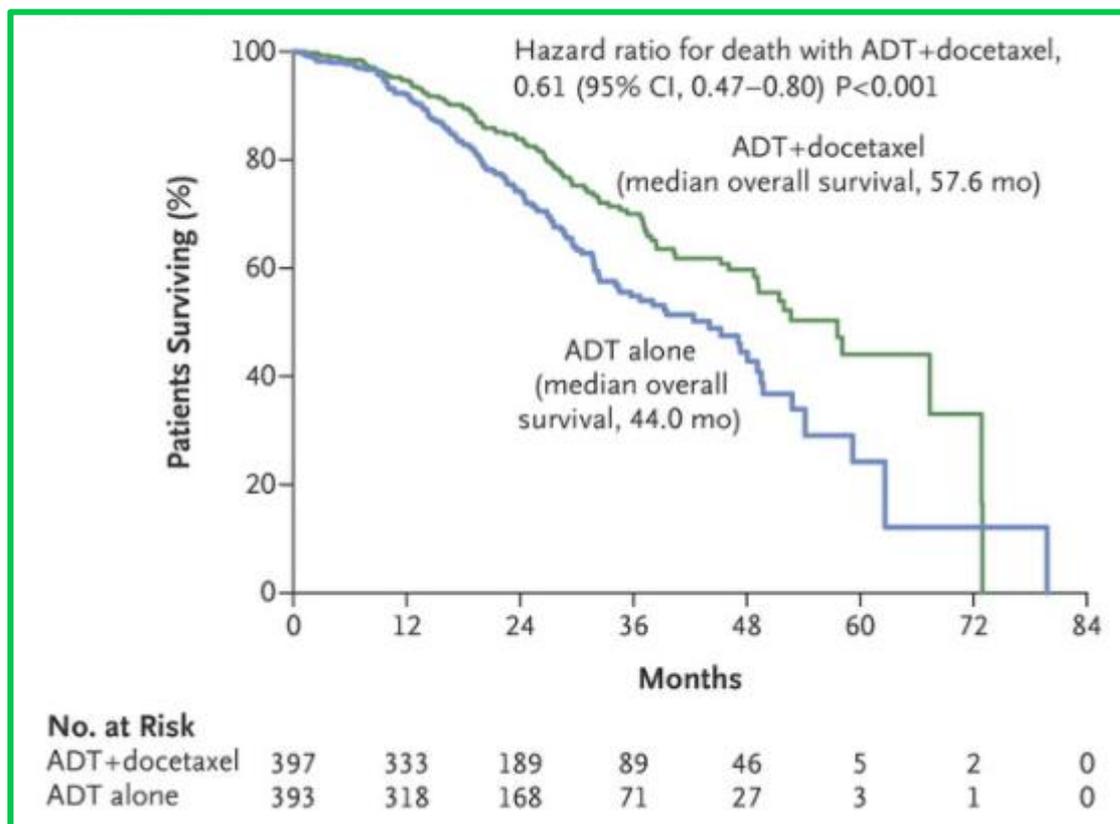
# OVERALL STUDY DESIGN OF CHAARTED



# CHAARTED: OVERALL SURVIVAL BENEFIT

## OVERALL SURVIVAL (OS)

- The median OS was 13.6 months longer with the addition to ADT of early docetaxel than with ADT alone

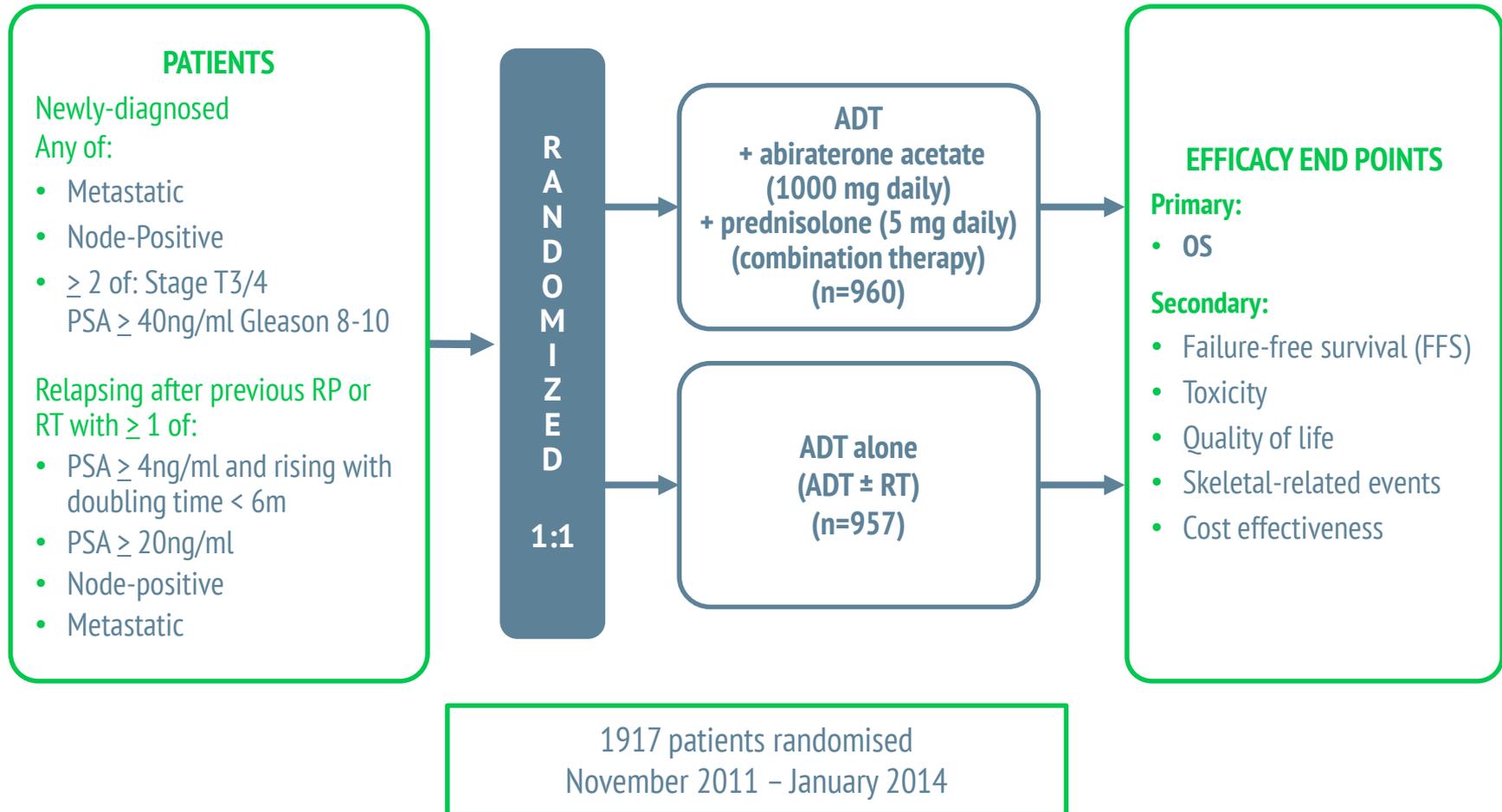


# CONCLUSIONS CHAARTED

- The combination of standard ADT and six cycles of docetaxel resulted in significantly longer OS than that with standard ADT alone in men with mHSPC
  - **Median OS 13.6 months longer**
  - Longer time to development of castration resistance
  - Higher rate of decrease in PSA levels to less than 0.2 ng/ml at 12 months
- **Clinical benefit was more pronounced among patients with a higher burden of disease**
  - Median OS 17.0 months longer in the combination group than in ADT-alone
- **CHAARTED established the benefit of ADT in combination** and set the scene for STAMPEDE AND LATITUDE

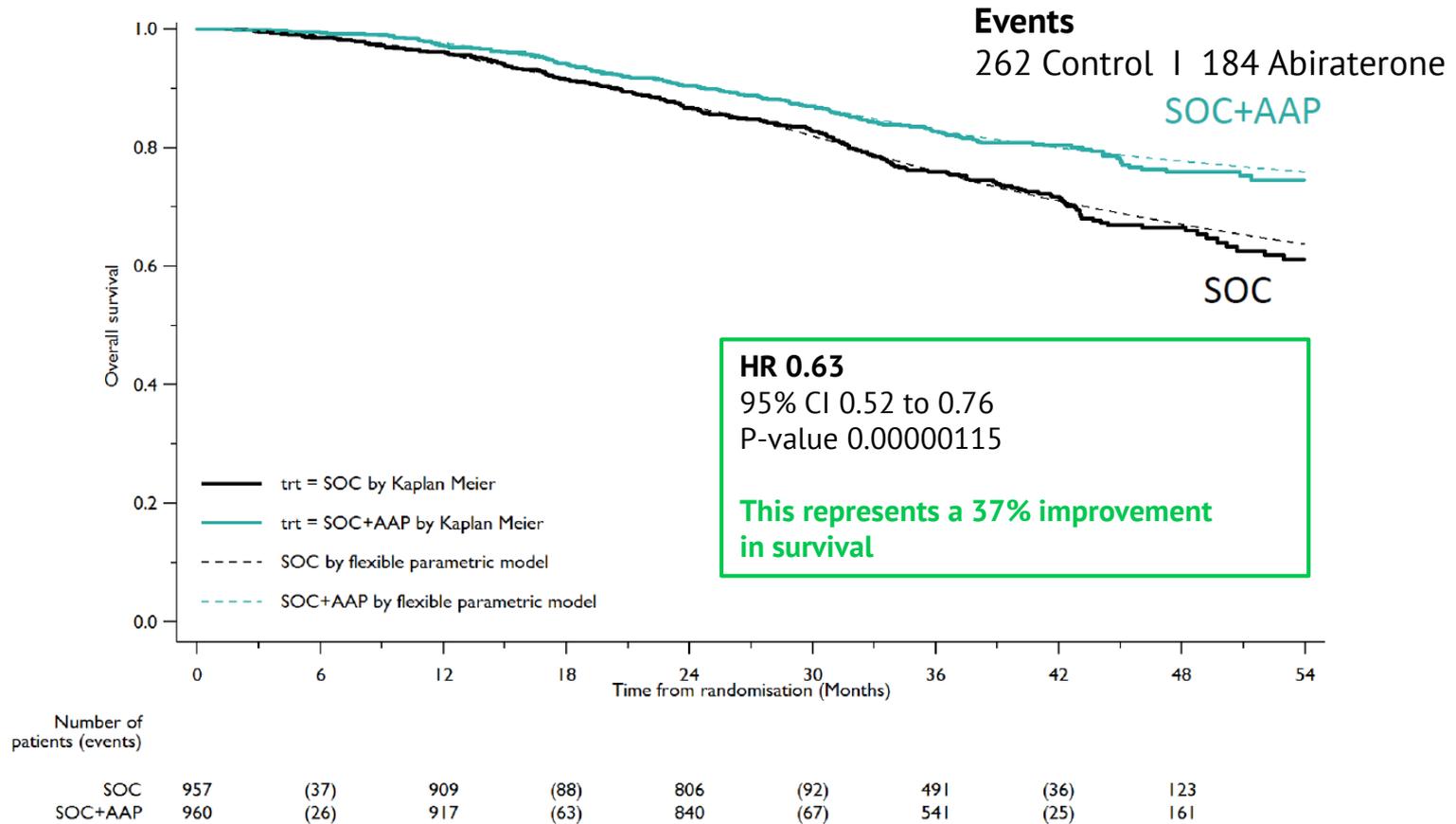
**STAMPEDE: SYSTEMIC THERAPY IN  
ADVANCING OR METASTATIC PROSTATE  
CANCER: EVALUATION OF DRUG EFFICACY:  
A MULTI-STAGE MULTI-ARM RANDOMISED  
CONTROLLED TRIAL**

# OVERALL STUDY DESIGN OF STAMPEDE



# STAMPEDE: 37% RISK REDUCTION OF DEATH

## OVERALL SURVIVAL – STAMPEDE “ABIRTERONE COMPARISON”

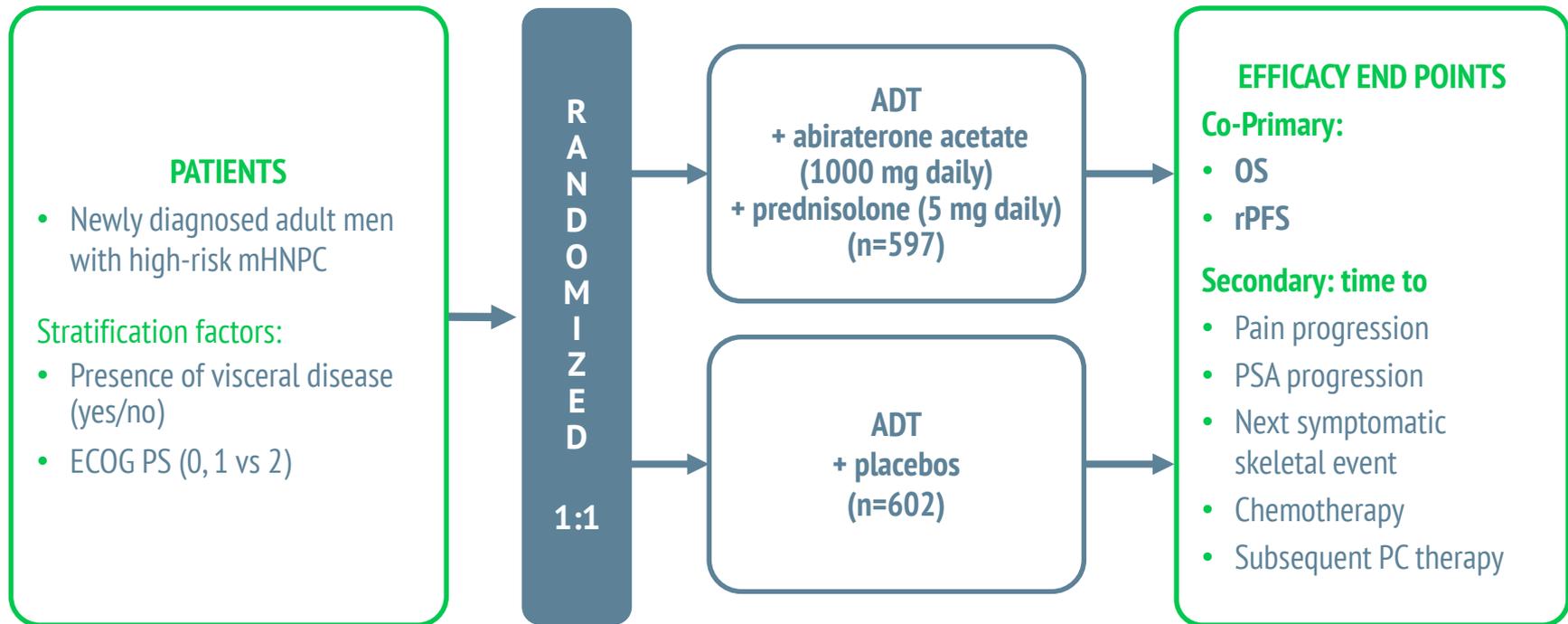


# CONCLUSIONS STAMPEDE

- In hormone naïve prostate cancer abiraterone acetate + prednisolone improves
  - **OS by 37%**
  - Failure free survival by 71%
  - Symptomatic skeletal events by 55%
- Treatment was **well tolerated**
- **Abiraterone acetate + prednisolone should be part of the standard of care** for men starting long-term androgen deprivation therapy

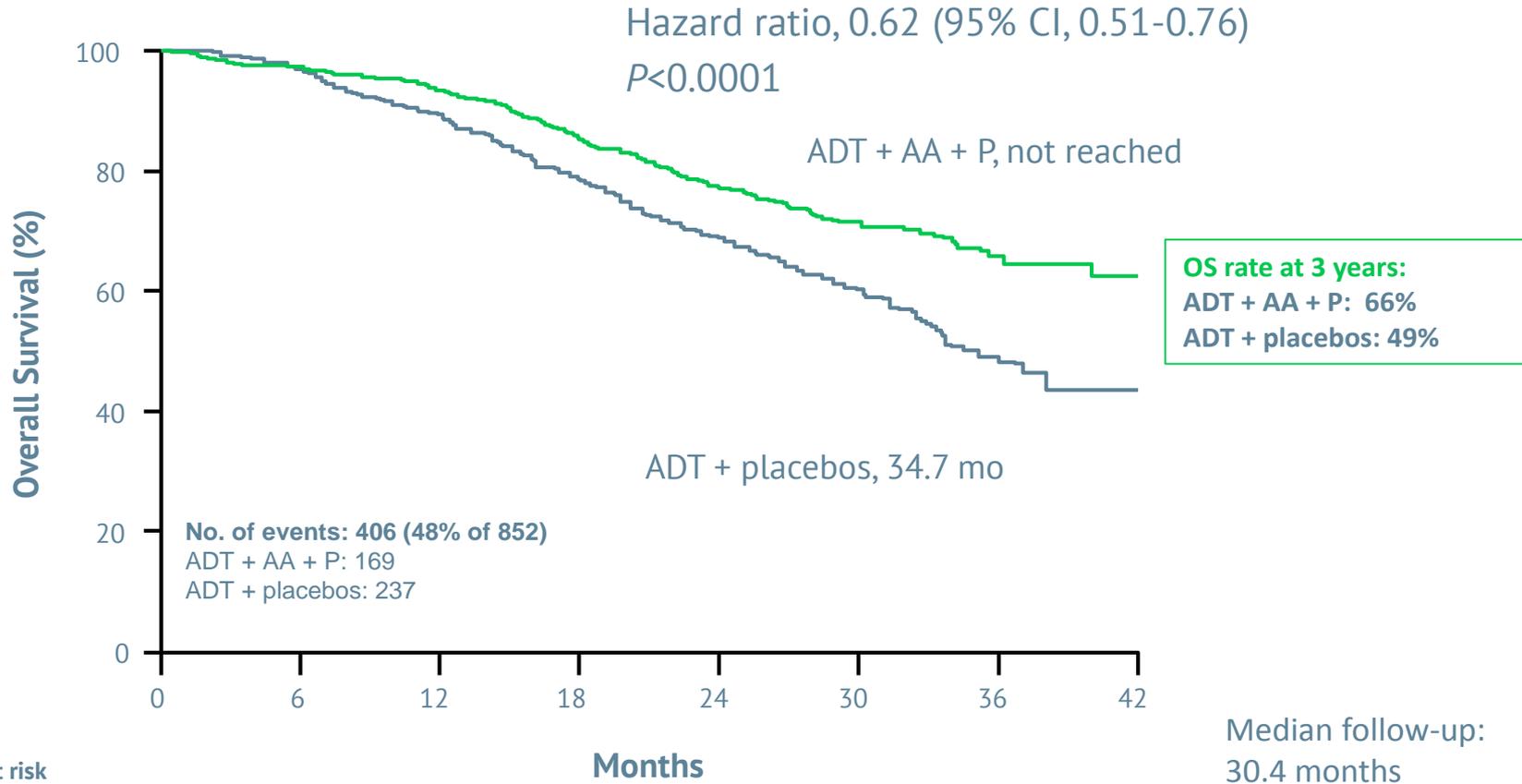
**LATITUDE: A PHASE 3, DOUBLE-BLIND,  
RANDOMIZED TRIAL OF ANDROGEN  
DEPRIVATION THERAPY WITH  
ABIRATERONE ACETATE PLUS PREDNISONE  
OR PLACEBOS  
IN NEWLY DIAGNOSED HIGH-RISK  
METASTATIC HORMONE-NAÏVE  
PROSTATE CANCER PATIENTS**

# OVERALL STUDY DESIGN OF LATITUDE



Conducted at 235 sites in 34 countries in Europe, Asia-Pacific, Latin America, and Canada  
Designed and fully enrolled prior to publication of CHAARTED/STAMPEDE results

# LATITUDE: 38% RISK REDUCTION OF DEATH



No. at risk	Months							
	0	6	12	18	24	30	36	42
ADT + AA + P	597	565	529	479	388	233	93	9
ADT + placebos	602	564	504	432	332	172	57	2

# CONCLUSIONS LATITUDE

- In the phase 3 LATITUDE, addition of AA + P to ADT led to:
  - Significantly improved OS with a **38% reduction in the risk of death**
  - Significantly **prolonged rPFS** (53% reduction) and all secondary end points
- The overall **safety profile of ADT + AA + P was consistent with prior studies** in patients with metastatic castration-sensitive prostate cancer

# IN SUMMARY

- **STAMPEDE and LATITUDE continue to build the body of evidence seen with CHARTED** in favour of combination therapy in men with mHSPC
- The Survival Benefit and HRs in both **STAMPEDE and LATITUDE are remarkably consistent**
- Whilst the patient populations in the two trials are broadly similar, there are some differences to be noted and this raises the question around **where to 'stop' when considering combination therapy;**
  - LATITUDE: eligible patients must have had documented distant metastatic disease
  - STAMPEDE: M0-patients were permitted to be enrolled in this trial
- A clinical **challenge exists in considering 2 different treatment options** – chemohormonal vs ADT/novel oral hormonal agent
- **Various factors must be considered** when selecting the right treatment for the right patient such as OS, toxicities, access, specific sub-populations and co-morbidities
- These trials may not only change the way in which mHSPC is treated, but will **also impact on the treatment of CRPC**

**REVIEW PERSPECTIVES**

**NORTH AMERICA**

# WHAT TO OFFER THE PATIENTS

## NO DIRECT COMPARISON OF THESE TWO APPROACHES

### Challenges:

- Docetaxel + P and AA + P are two valid approaches but have **not been compared** with one another
- **No consensus** among oncologists regarding which one to use
- **No biomarkers available to predict response** to these approaches, and help treatment selection

# PROS AND CONS

## DOCETAXEL + P VERSUS AA + P

Docetaxel + P	AA + P
Limited duration of therapy (18 weeks)	Much longer duration of therapy (often in years)
Lower cost (\$32,000 for a six-dose cycle)	Very expensive (\$8,000 to \$9,000 per month or ~\$200,000 over two years)
More affordable to patients: no copay for most men (i.e. >65 years, who are on Medicare)	Less affordable to patients: high co-pay for most, often hundreds of dollars per month
Higher toxicities (myelo-suppression, neuropathy etc.)	Lower toxicities (hypertension, hypokalemia, oedema)
Requires frequent visits to doctor's office for infusion, and monitoring	Less frequent visits, no infusions

# WHAT IS THE RIGHT CHOICE?

## DOCETAXEL + P VERSUS AA + P

Until biomarkers are available to select patients, the following factors may help:

- **Patient's choice:**
    - Inconvenience and taking time out from work for hospital appointments for repeated infusions for docetaxel versus outpatient oral therapy with AA
    - Type of insurance coverage available leading to affordability of AA
    - Concerns about being on prednisone for years
  - **Doctor's preference:**
    - Anecdotal experiences of individual oncologist with each of these approaches
  - **Co-morbidities:**
    - Pre-existing neuropathy precluding the use of docetaxel
    - Pre-existing grade 2-3 hypertension
    - Severe osteoporosis precluding the use of AA + P
-

# FUTURE DIRECTIONS

## IS THE COMBINATION OF DOCETAXEL + AA + P THE ANSWER?

- This question will be answered by **PEACE-1** (see next slide)
- If yes, it will be accompanied by additional concerns of cost and toxicities
- Multiple **other novel androgen axis inhibitors** being tested with their own advantages and disadvantages compared to docetaxel and AA (see next slide)
- Most important issue is the **development of predictive biomarkers of response** to improve efficacy and reduce cost and toxicities for a given patient

# ONGOING TRIALS OF NOVEL ANDROGEN AXIS INHIBITORS

## ONGOING PHASE III CLINICAL TRIALS EVALUATING ADT + ANDROGEN AXIS INHIBITION IN mHSPC

Trial Name	Arms	# Pts.	1° endpoint	NCT #	Anticipated Read-out
ENZA-MET	ADT +/- doce + enza vs. NSAA	1100	OS	NCT02446405	2020
ARCHES	ADT +/- doce + enza vs. placebo	1100	rPFS	NCT02677896	2023
TITAN	ADT +/- doce + apa vs. placebo	1000	OS	NCT02489318	2021
ARASENS	ADT + doce + ODM-201 vs. placebo	1300	OS	NCT02799602	2022
S1216	ADT + TAK-700 vs. bicalutamide	1304	OS	NCT01809691	2022
PEACE-1	ADT +/- doce, +/- RT, +/- abi	916	OS, rPFS	NCT01957436	2020

ADT, androgen-deprivation therapy; doce, docetaxel; enza, enzalutamide; NSAA, non-steroidal androgen antagonist; OS, overall survival; rPFS, radiographic progression-free survival; apa, apalutamide; abi, abiraterone acetate; RT, radiotherapy;

\*Values reflect failure-free survival instead of PFS.

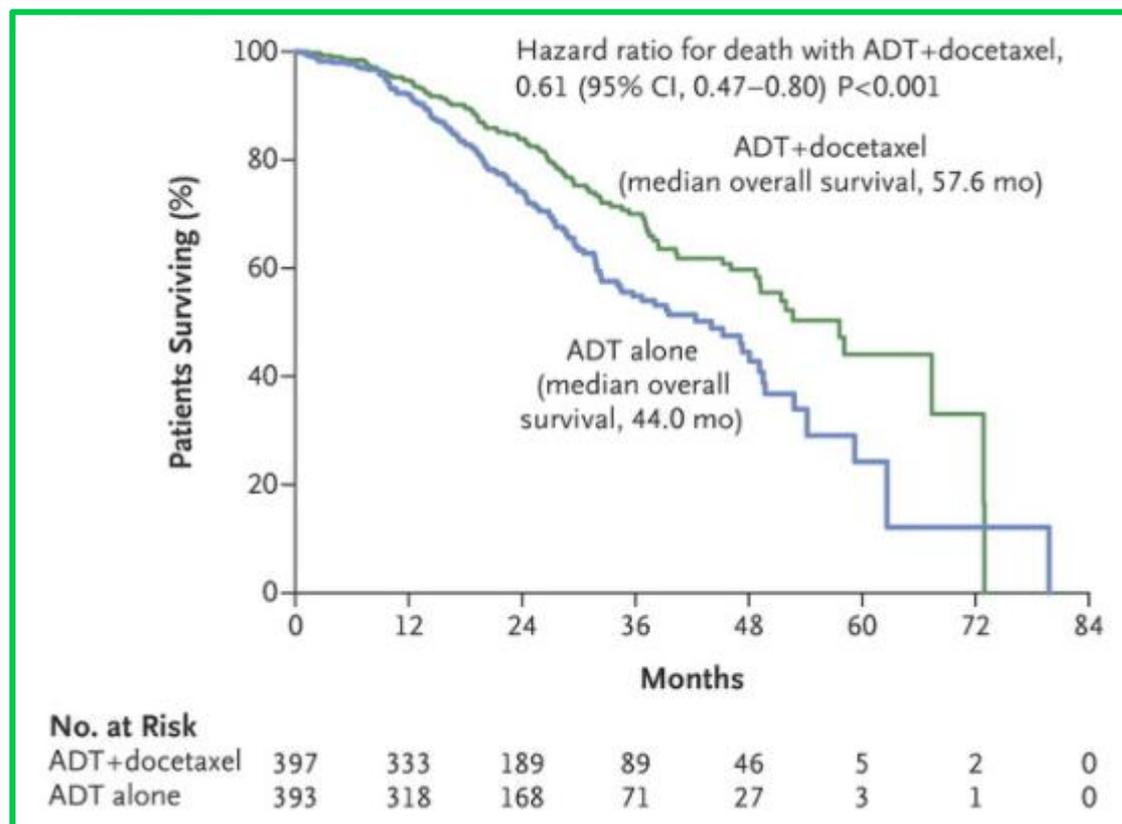
# REVIEW PERSPECTIVES

## EUROPE

# CHAARTED: OVERALL SURVIVAL BENEFIT

## OVERALL SURVIVAL (OS)

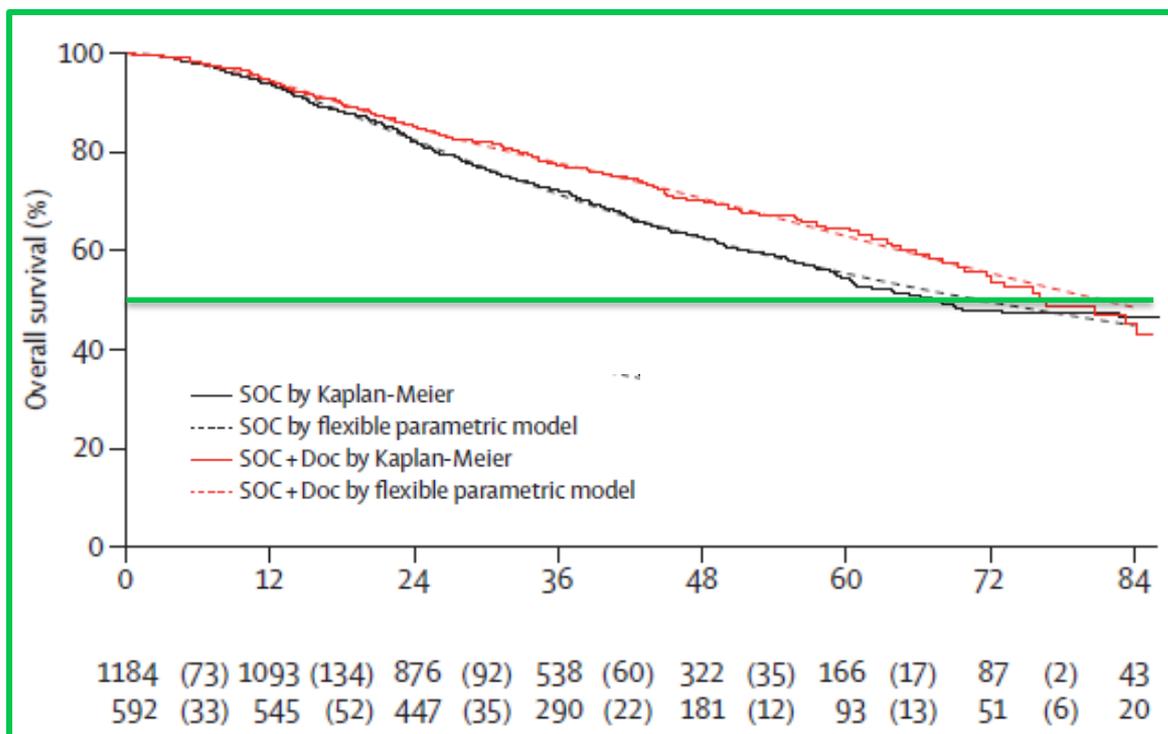
- The median OS was 13.6 months longer with the addition to ADT of early docetaxel than with ADT alone



# STAMPEDE: OVERALL SURVIVAL BENEFIT

## OVERALL SURVIVAL (OS)

- The median OS was 10 months longer with the addition to ADT of early docetaxel than with ADT alone



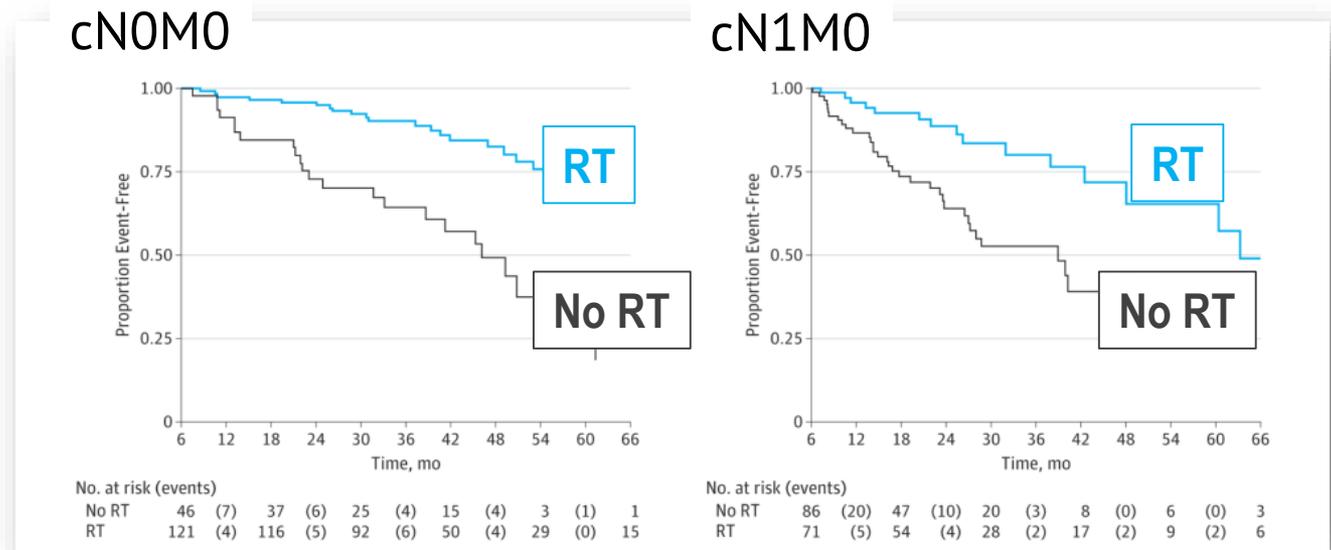
## GUIDELINES FOR THE FIRST-LINE TREATMENT OF METASTATIC PROSTATE CANCER

Recommendations	LE	GR
Offer castration combined with chemotherapy (docetaxel) to all patients whose first presentation is M1 disease and who are fit enough for chemotherapy.	1a	A
Offer castration alone, with or without an anti-androgen, to patients unfit for, or unwilling to consider, castration combined with chemotherapy.	1b	A
Do not prescribe abiraterone acetate or enzalutamide outside of a clinical trial.	3	A
Use castration combined with any local treatment (radiotherapy/surgery) in an investigational setting only.	3	A

# SOME MEN WITH OLIGO-METASTATIC PROSTATE CANCER MAY BENEFIT FROM RP/RT

## DATA FROM THE CONTROL ARM OF STAMPEDE

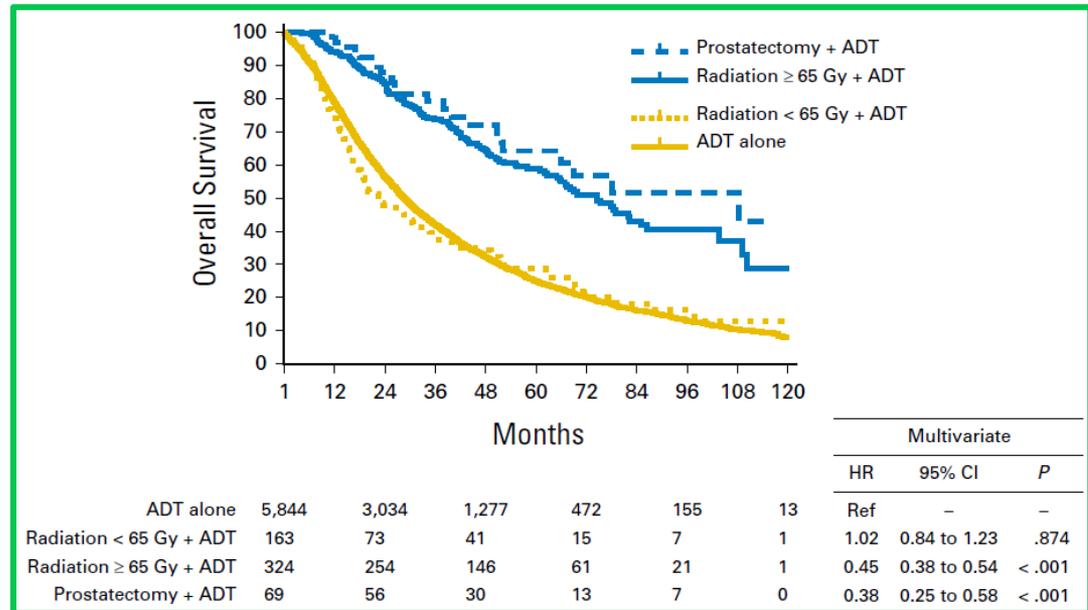
- **PFS** improved when adding RT to ADT in patients with cN1 PCa



# SOME MEN WITH OLIGO-METASTATIC PROSTATE CANCER MAY BENEFIT FROM RP/RT

## DATA FROM THE NATIONAL CANCER REGISTRY

- **OS** improved when adding RP of RT ( $\geq 65$  Gy) to ADT in patients with M1 PCa



## GUIDELINES FOR THE FIRST-LINE TREATMENT OF METASTATIC PROSTATE CANCER

Recommendations	LE	GR
Offer castration combined with chemotherapy (docetaxel) to all patients whose first presentation is M1 disease and who are fit enough for chemotherapy.	1a	A
Offer castration alone, with or without an anti-androgen, to patients unfit for, or unwilling to consider, castration combined with chemotherapy.	1b	A
Do not prescribe abiraterone acetate or enzalutamide outside of a clinical trial.	3	A
Use castration combined with any local treatment (radiotherapy/surgery) in an investigational setting only.	3	A

# ONGOING PROSPECTIVE TRIALS OF PROSTATE-TARGETED THERAPY IN SYNCHRONOUS (OLIGO)METASTATIC PROSTATE CANCER

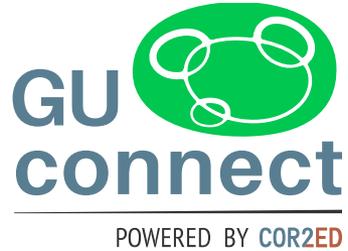
Study (ClinicalTrials.gov ID)	Phase	Design	Primary outcome measure	Estimated completion
TROmbone: Testing Radical prostatectomy in men with prostate cancer and oligoMetastases to the bone: a randomised controlled feasibility trial (ISRCTN15704862)	II	Randomised, open-label, parallel assignment	Feasibility to randomise (measured at 6 m)	Completed April 2017
HORRAD: A randomised study about the effect on survival of HT versus HT plus local external RT in patients with primary diagnosed metastasised PCa (ISRCTN06890529)	III	Randomised active-controlled parallel-group trial	Survival	Completed accrual
Safety and early efficacy of RP for newly diagnosed very high risk locally advanced and OMPca (NCT02971358)	I/II	Open-label, single group assignment	The rate of perioperative complications within 90 days from surgery (Clavien-Dindo)	November 2016
Combining ipilimumab, degarelix, and RP in men with newly diagnosed metastatic castration sensitive PCa or ipilimumab and degarelix in men with biochemically recurrent castration sensitive PCa after RP (NCT02020070)	II	Non-randomised, open-label, parallel assignment	Undetectable PSA (time frame at 12 and 20 m) from the start of treatment	December 2017
BST or BST plus definitive treatment (RT or surgery) of the primary tumour in mPCa (NCT01751438)	II	Randomised, open-label, parallel-assignment	PFS	March 2018
Cytoreductive prostatectomy in patients with newly diagnosed metastatic PCa (NCT02458716)	I	Open-label, single group assignment	Rate of major peri-operative complications (Clavien-Dindo $\geq$ III) within 90 days of surgery	August 2018
ADT or ADT plus definitive treatment (RT or surgery) in OMPca (NCT02742675)	II	Randomised, open-label, parallel assignment	PFS	March 2019
LoMP: Local treatment with RP for newly-diagnosed mPCa (NCT02138721)	II	Non-randomised, open-label, parallel assignment	Castration-refractory PCa PFS; Time to first disease-related event (time frame for either: up to 10 y)	May 2019
g-RAMPP: Impact of RP as primary treatment in patients with PCa with limited bone metastases (NCT02454543)	III	Randomised, open-label, parallel assignment	Cancer-specific survival (time frame: 5 y)	April 2020
PEACE1: A phase III of ADT +/- docetaxel +/- local RT +/- abiraterone acetate in metastatic hormone-naïve PCa (NCT01957436)	III	Randomised, open-label, parallel assignment	Survival (time frame 5.5. y) OS and PFS	October 2023

ADT, androgen deprivation therapy; BST, best systemic therapy; HT, hormonal therapy' ISRCTN, International Standard Randomised Controlled Trial Number; LN, lymph node; mPCa, metastatic prostate cancer; OMPca, oligometastatic prostate cancer; OS, overall survival; PCa, prostate cancer; PFS, progression-free survival; PSA, prostate-specific antigen; RP, radical prostatectomy; RT, radiotherapy

# CONCLUSIONS

# CONCLUSIONS

- Treatment of patients with mHSPC requires a **multidisciplinary approach** between Medical Oncologists and Urologists
  - The results from the 3 trials indicate that **treatment has moved beyond monotherapy ADT** for high volume mPC patients
  - When deciding on whether to combine ADT with abiraterone or docetaxel, a number of **selection factors** are to be considered
  - **Further trials** continue to investigate how to combine or sequence therapy, whilst others studies focus on the benefit in sub-populations (low volume metastatic and high risk localized disease)
  - Implications on **resistance patterns and therapeutic selection** when CRPC ensues must also be considered
  - A review of the treatment landscape in different regions indicates that **accessibility and cost** also impact upon treatment decisions
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GU CONNECT  
Bodenackerstrasse 17  
4103 Bottmingen  
SWITZERLAND

Dr. Antoine Lacombe  
Pharm D, MBA  
Phone: +41 79 529 42 79  
[antoine.lacombe@cor2ed.com](mailto:antoine.lacombe@cor2ed.com)

Dr. Froukje Sosef  
MD  
Phone: +31 6 2324 3636  
[froukje.sosef@cor2ed.com](mailto:froukje.sosef@cor2ed.com)

