

Disclosure belangen spreker

(potentiële) belangenverstengeling	Geen / Zie hieronder
Voor bijeenkomst mogelijk relevante relaties met bedrijven	Bedrijfsnamen
<ul style="list-style-type: none">• Sponsoring of onderzoeksgeld• Honorarium of andere (financiële) vergoeding• Aandeelhouder• Andere relatie, namelijk ...	Geen disclosures

State of the Art

Urogenitale en blaastumoren

- Focus op immuun checkpoint inh -

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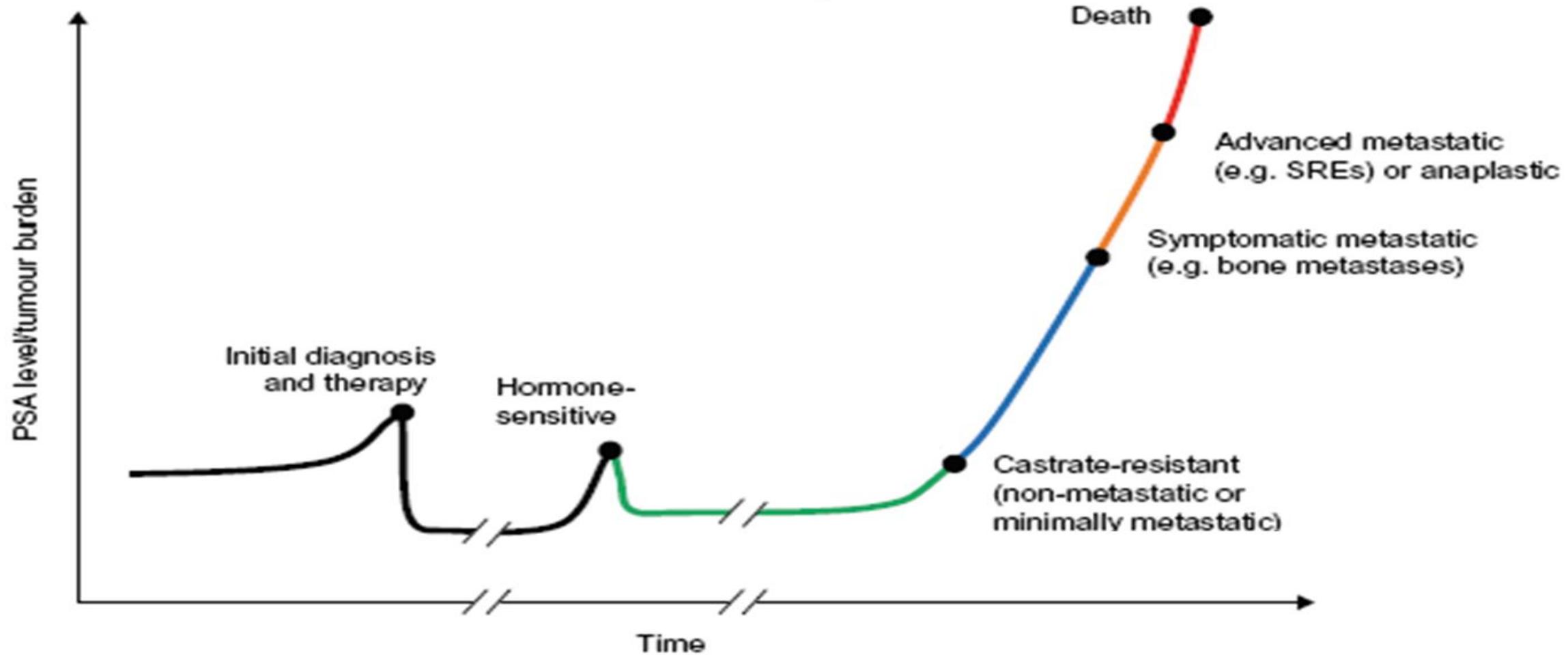
Radboud University



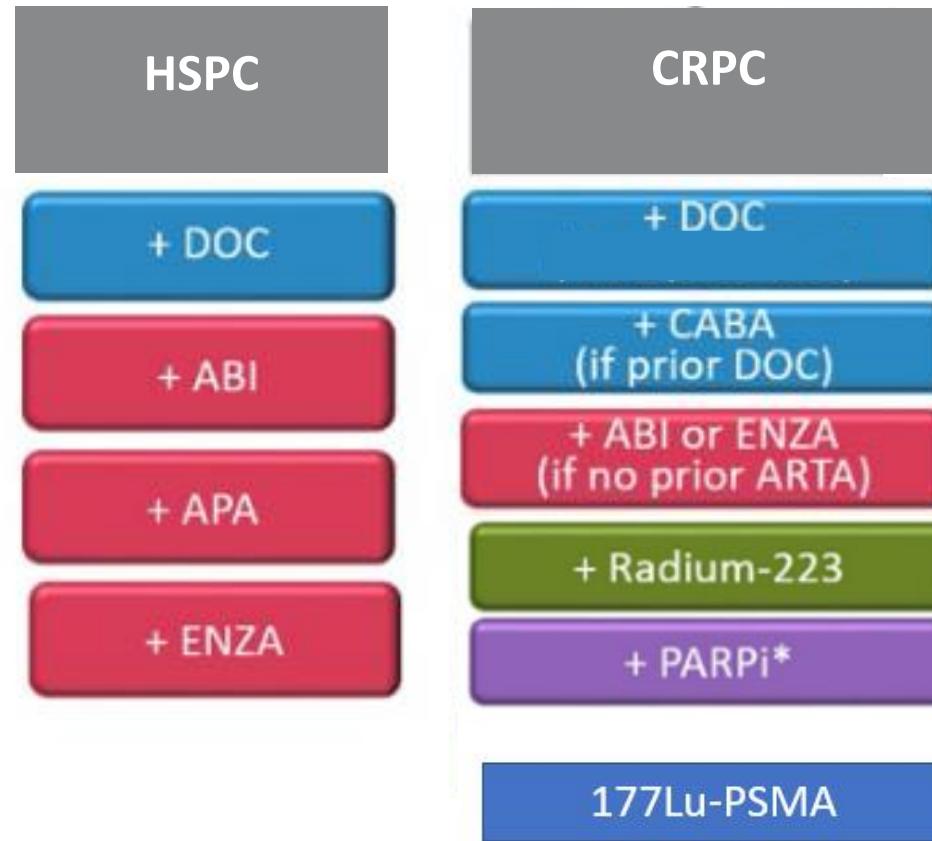
Radboudumc
university medical center

Prostaatcarcinoom

Het beloop bij gemetastaseerd prostaatcarcinoom

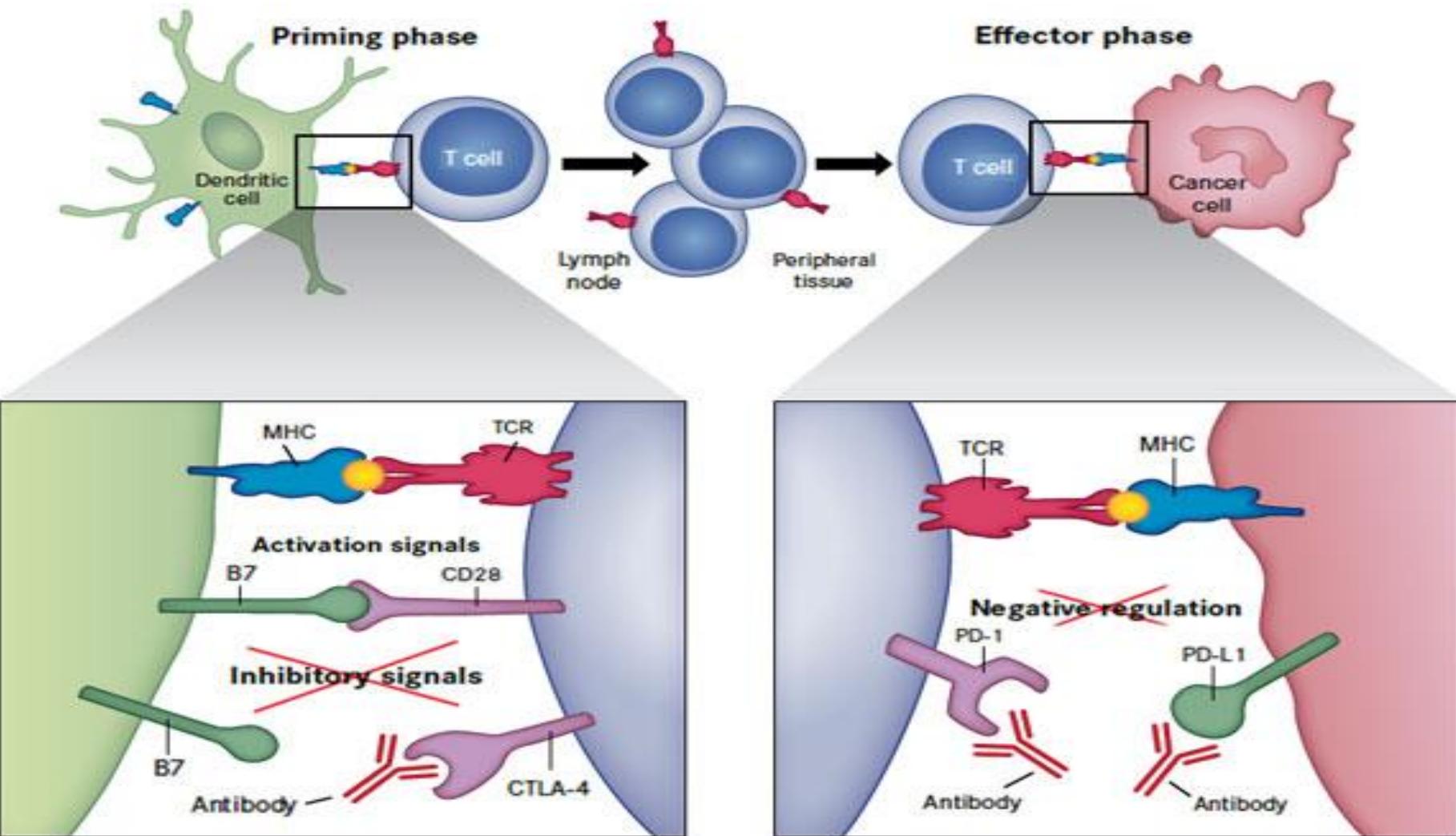


Uitbreiding van het therapeutisch arsenaal bij gemetastaseerd hormoon-sensitief PC en castratie-resistant PC



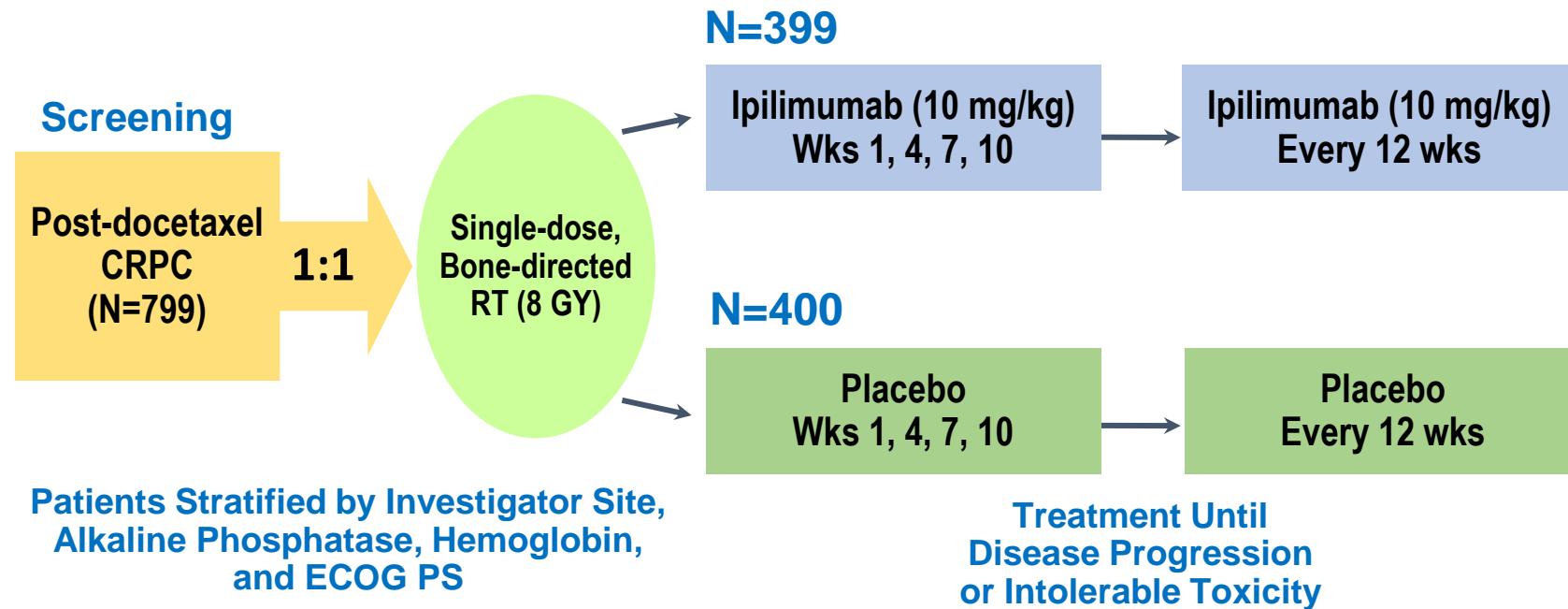
Hoe zit het met immuun checkpoint inh bij PCa?

Immune checkpoint inhibitors (ICIs)



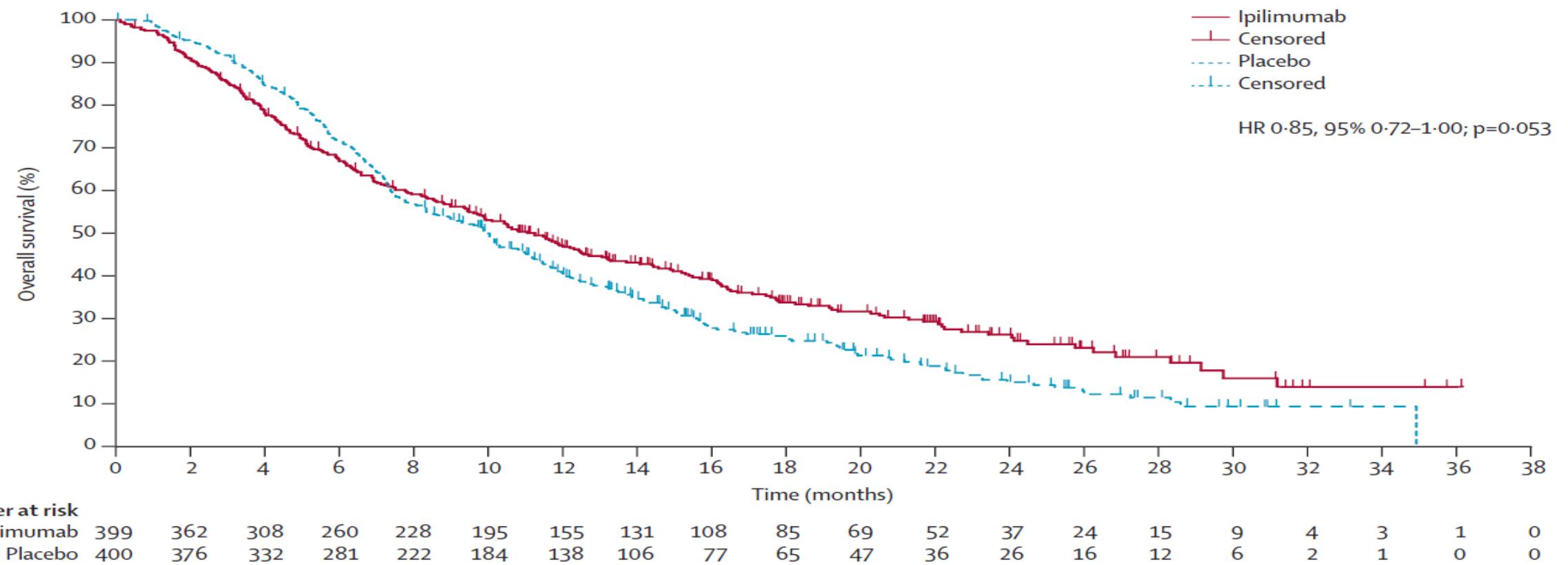
CRPC: immunotherapie

CA184-043: Study Design



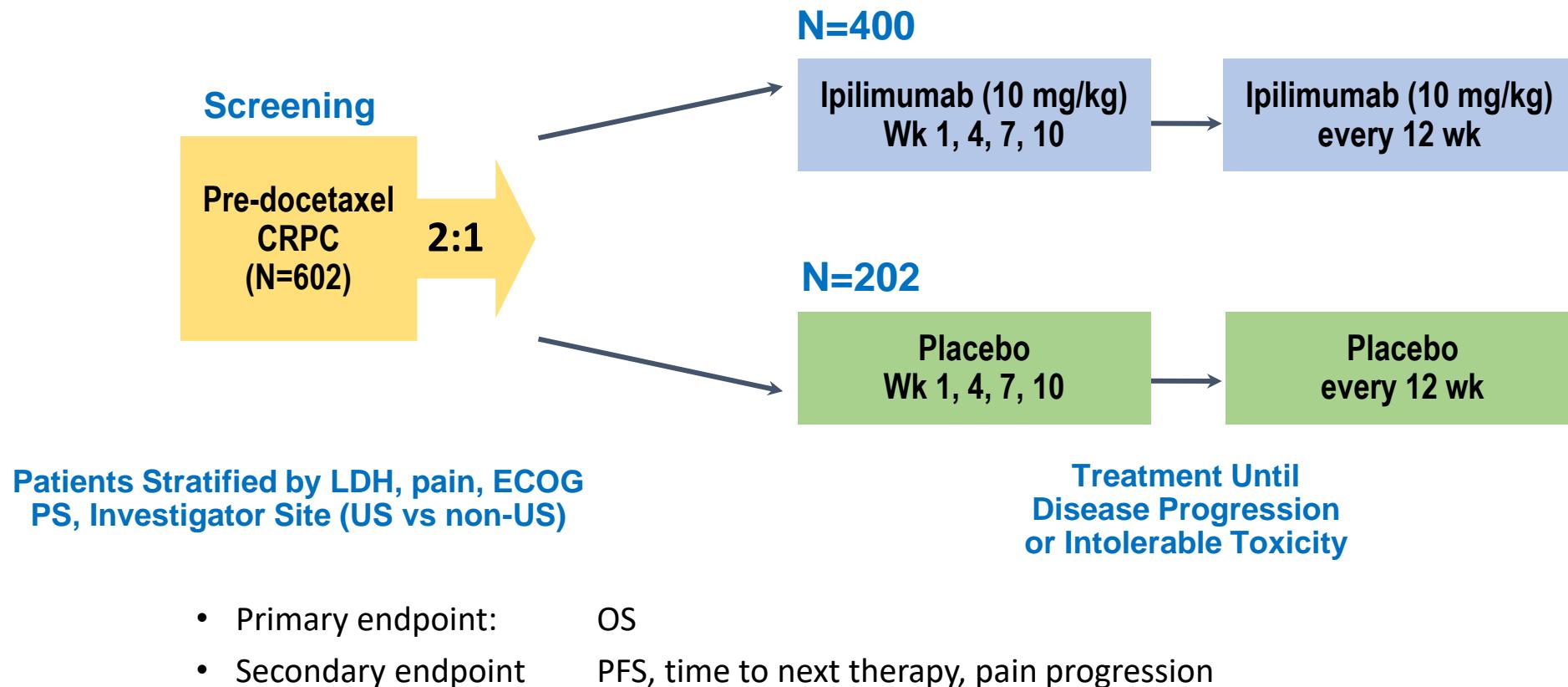
- Primary endpoint: overall survival (OS)
- Secondary endpoints: progression-free survival, safety
- Exploratory endpoint: PSA response rate

CRPC: ipilimumab (post-docetaxel)

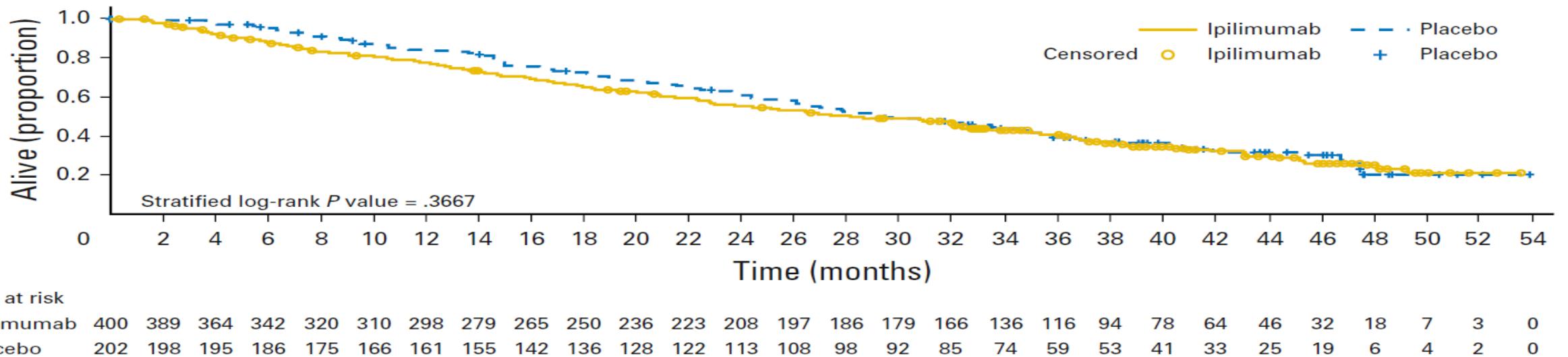


CRPC: ipilimumab (pre-docetaxel)

CA184-095: Study Design



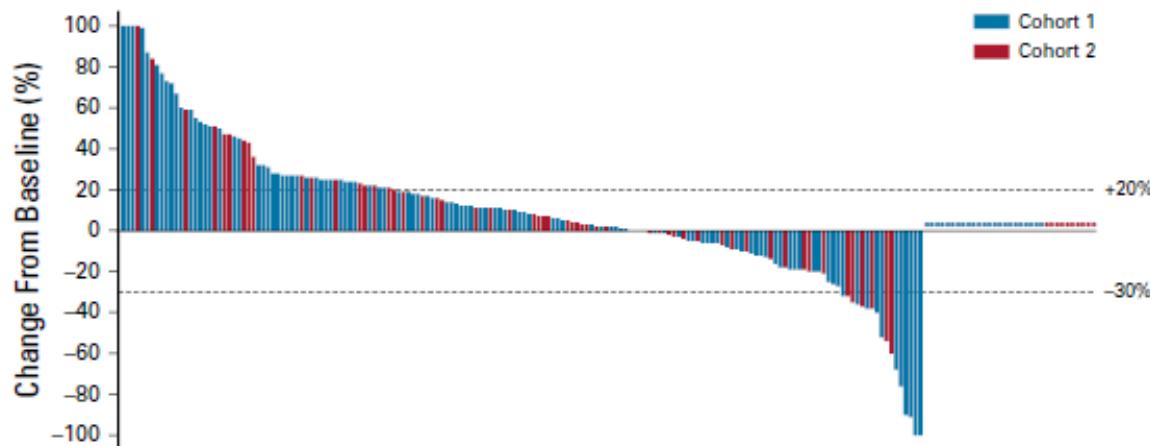
CRPC: ipilimumab (pre-docetaxel)



Beer et al. JCO 2017

Keynote-199 trial: pembrolizumab bij mCRPC

A



B

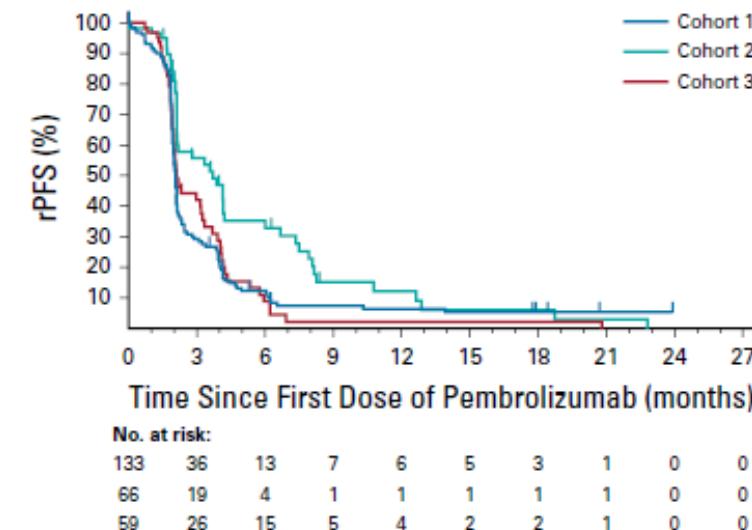


TABLE 2. Summary of Responses

Variable	Cohort 1 (PD-L1 positive)	Cohort 2 (PD-L1 negative)	Cohort 3 (bone predominant)	Cohorts 1 and 2 Combined	Cohorts 1, 2, and 3 Combined
Response assessed per RECIST v1.1 by central radiology review					
No. of patients	133	66	59	199	258
ORR, No. (%; 95% CI)	7 (5; 2 to 11)	2 (3; < 1 to 11)	—	9 (5; 2 to 8)	—

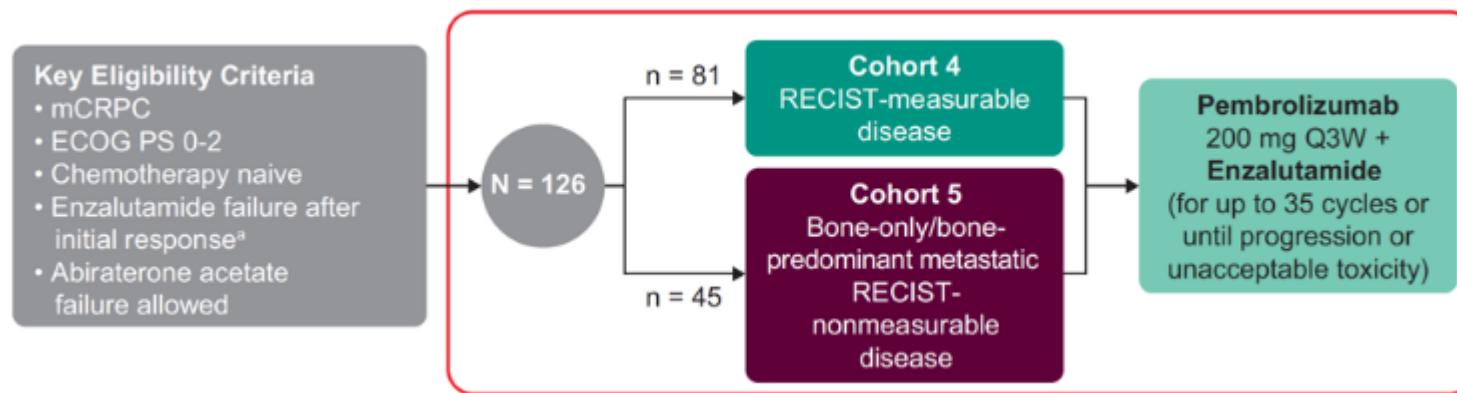
Cohort 1: RECISTable ziekte en PD-L1+

Cohort 2: RECISTable ziekte en PD-L1-

Cohort 3: bone-predominant, onafh van PD-L1 status

Keynote-199 trial: pembrolizumab bij mCRPC

623P
KEYNOTE-199 Phase 2 Study of Pembrolizumab Plus Enzalutamide for Enzalutamide-Resistant Metastatic Castration-Resistant Prostate Cancer: Cohorts 4 and 5 Update



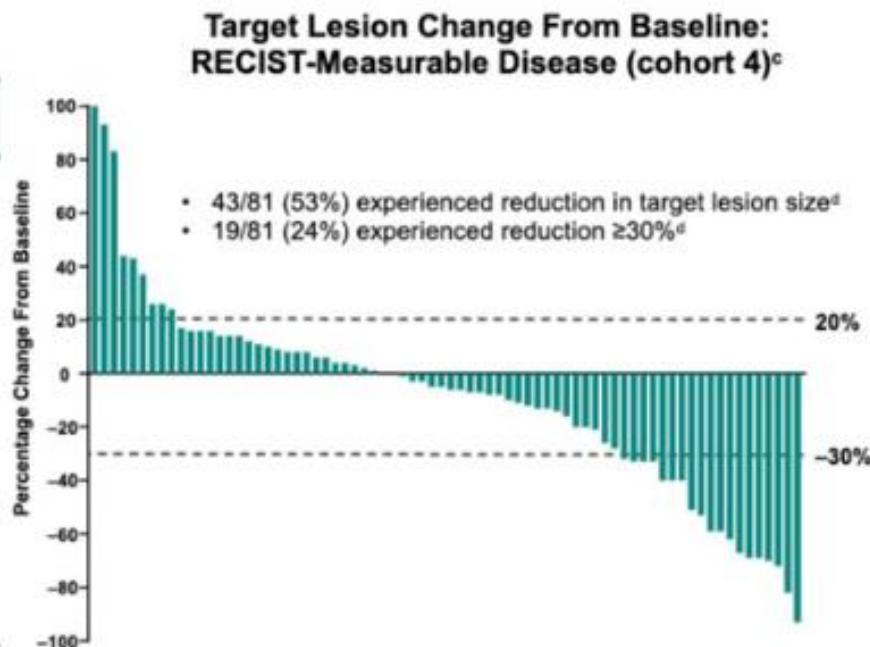
Primary end points: ORR by RECIST v1.1 by blinded independent central review

Keynote-199 trial: pembrolizumab in mCRPC

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KEYNOTE-199 Phase 2 Study of Pembrolizumab Plus Enzalutamide for Enzalutamide-Resistant Metastatic Castration-Resistant Prostate Cancer: Cohorts 4 and 5 Update

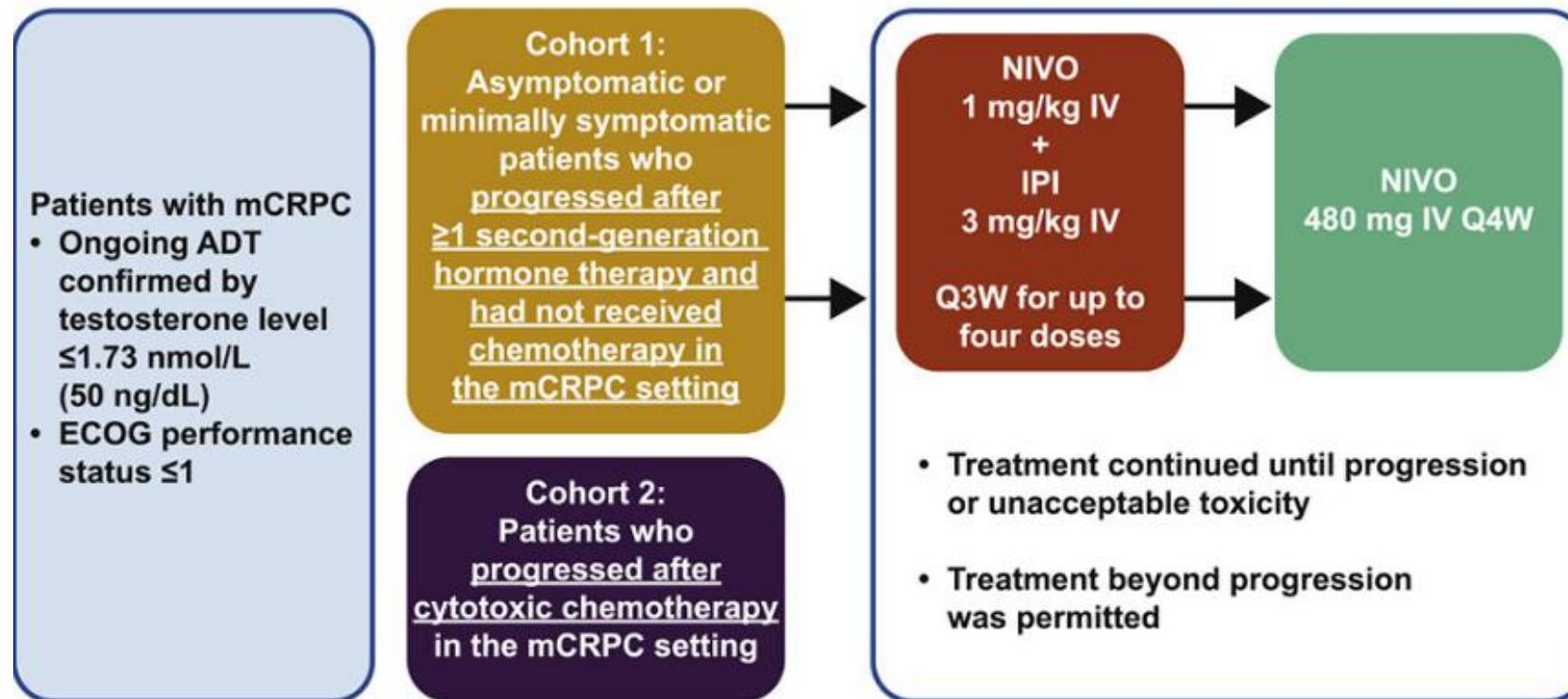
Best Confirmed Response by BICR per RECIST v1.1

n (%)	Cohort 4 n = 81	Cohort 5 n = 45
ORR	10 (12)	NA
CR	2 (2)	NA
PR	8 (10)	NA
SD of any duration	31 (38)	0 (0)
Non-CR/non-PD of any duration	0 (0)	23 (51)
DCR (CR + PR + SD or non-CR/non-PD)	41 (51)	23 (51)
PD	31 (38)	20 (44)
Nonevaluable ^a	2 (2)	1 (2)
No assessment ^b	7 (9)	1 (2)



Ipilimumab en nivolumab bij mCRPC (Checkmate 650)

CheckMate 650 (NCT02985957)
Part I: Signal seeking study (N = 90)
Open-label, multicenter, phase II study



Ipilimumab en nivolumab bij mCRPC (Checkmate 650)

Endpoints	Cohort 1 (n = 45)	Cohort 2 (n = 45)
Co-primary		
Investigator assessed ORR	25.0%	10.0%
rPFS	Median 5.5 months (95% CI, 3.5–7.1)	Median 3.8 months (95% CI, 2.1–5.1)
Secondary		
OS	Median 19.0 months (95% CI, 11.5–not evaluable)	Median 15.2 months (95% CI, 8.4–not evaluable)
Safety	Grade 3–4 treatment-related AEs in 42.2% of patients	Grade 3–4 treatment-related AEs in 53.3% of patients
Exploratory		
PSA response rate	17.6%	10.0%
Correlation of biomarkers with efficacy	Preliminary evidence of potential biomarkers of response	

Ipilimumab en nivolumab bij mCRPC (Checkmate 650)

ipilimumab-induced increase in tumor-infiltrating T cells. Here, we report the largest trial to date in mCRPC with anti-CTLA-4 plus anti-PD-1 (nivolumab 1 mg/kg plus ipilimumab 3 mg/kg; CheckMate 650, NCT02985957). With median follow-ups of 11.9 and 13.5 months in cohorts 1 (pre-chemotherapy; n = 45) and 2 (post-chemotherapy; n = 45), objective response rate was 25% and 10%, and median overall survival was 19.0 and 15.2 months, respectively. Four patients, two in each cohort, had complete responses. Exploratory studies identify potential biomarkers of response. Grade 3–4 treatment-related adverse events have occurred in ~42%–53% of patients, with four treatment-related deaths. Therefore, dose/schedule modifications have been implemented.

- Slechts 29% kreeg 4x ipi/nivo
- 48% gestopt vanwege tox

Ipilimumab (1 mg/kg) en nivolumab (3 mg/kg) bij geselecteerde mCRPC patienten

Key inclusion criteria
mCRPC with one of the following molecular subtypes:
• Microsatellite instability (MSI) and/or mismatch repair deficiency (MMRd);
• High TMB (> 7 mutations per megabase);
• BRCA2 inactivation or BRCAness signature;
• CDK12 inactivation and/or a tandem duplication signature (TDS).
ECOG performance score 0-1

Study cohorts (n=75)
• A1: ICB-naïve, measurable disease (main cohort; n=50)
• A2: ICB-naïve, non-measurable disease
• A3: Prior ICB, measurable disease
Primary endpoint
Disease control rate at 6 months

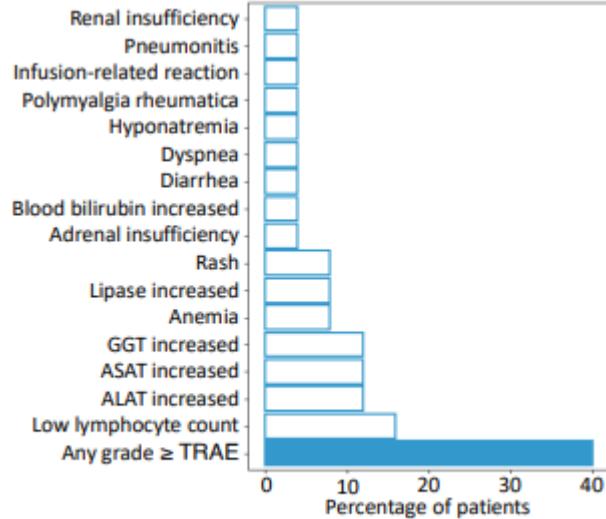
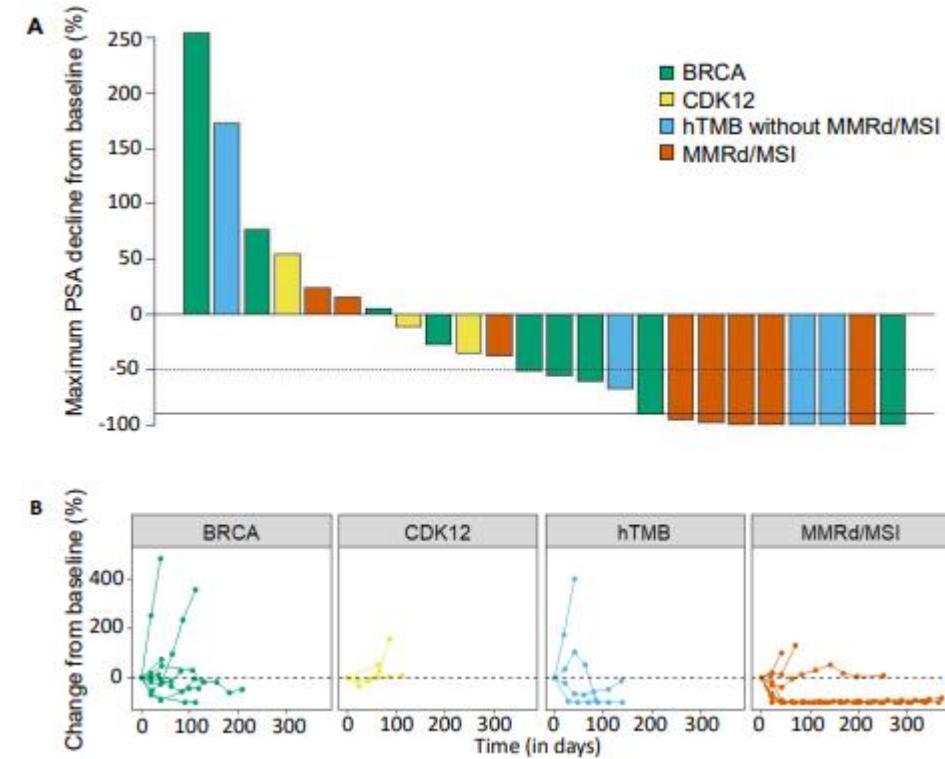
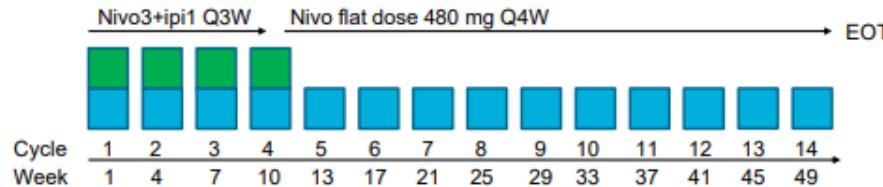


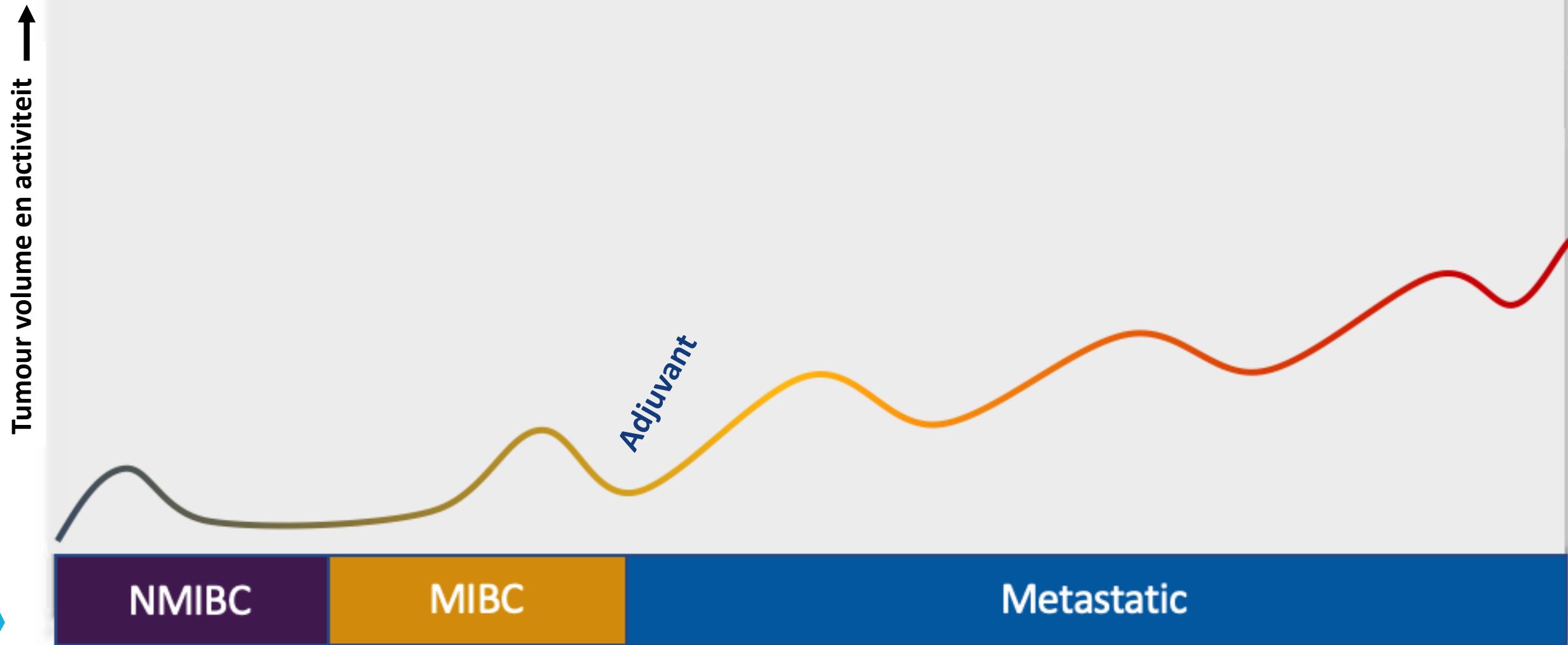
Figure 2. Incidence of grade ≥ 3 TRAEs

- This interim analysis was performed in 25 patients with at least 17 weeks of follow up and aimed at < 35% toxicity-related discontinuations in the first 17 weeks.

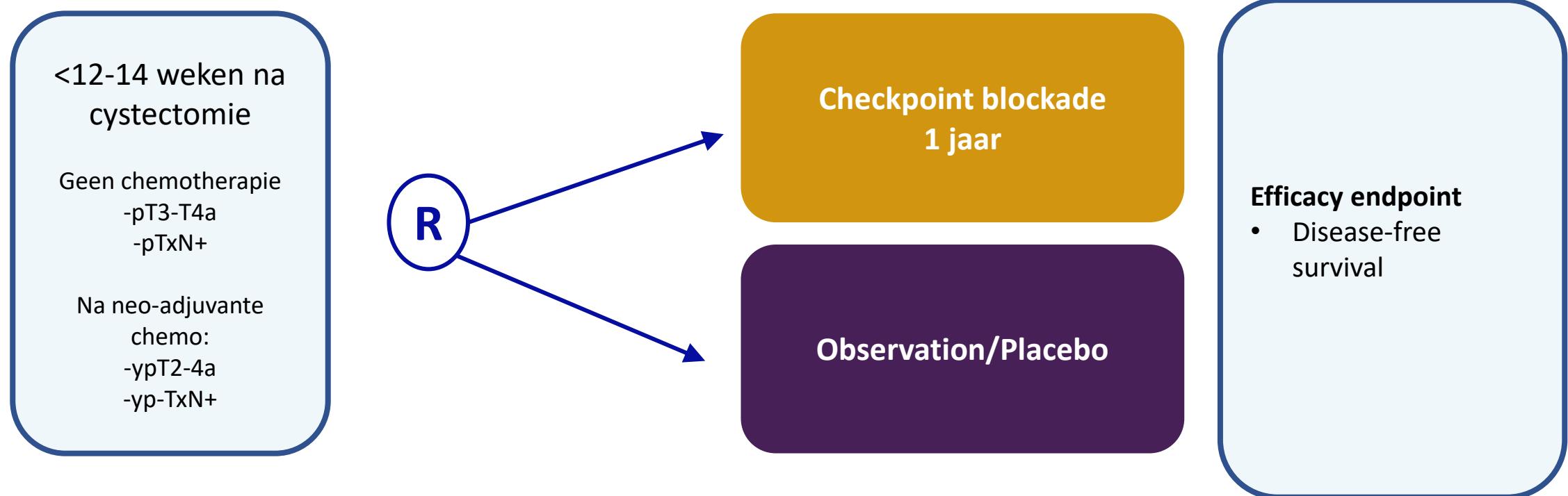


Blaaskanker

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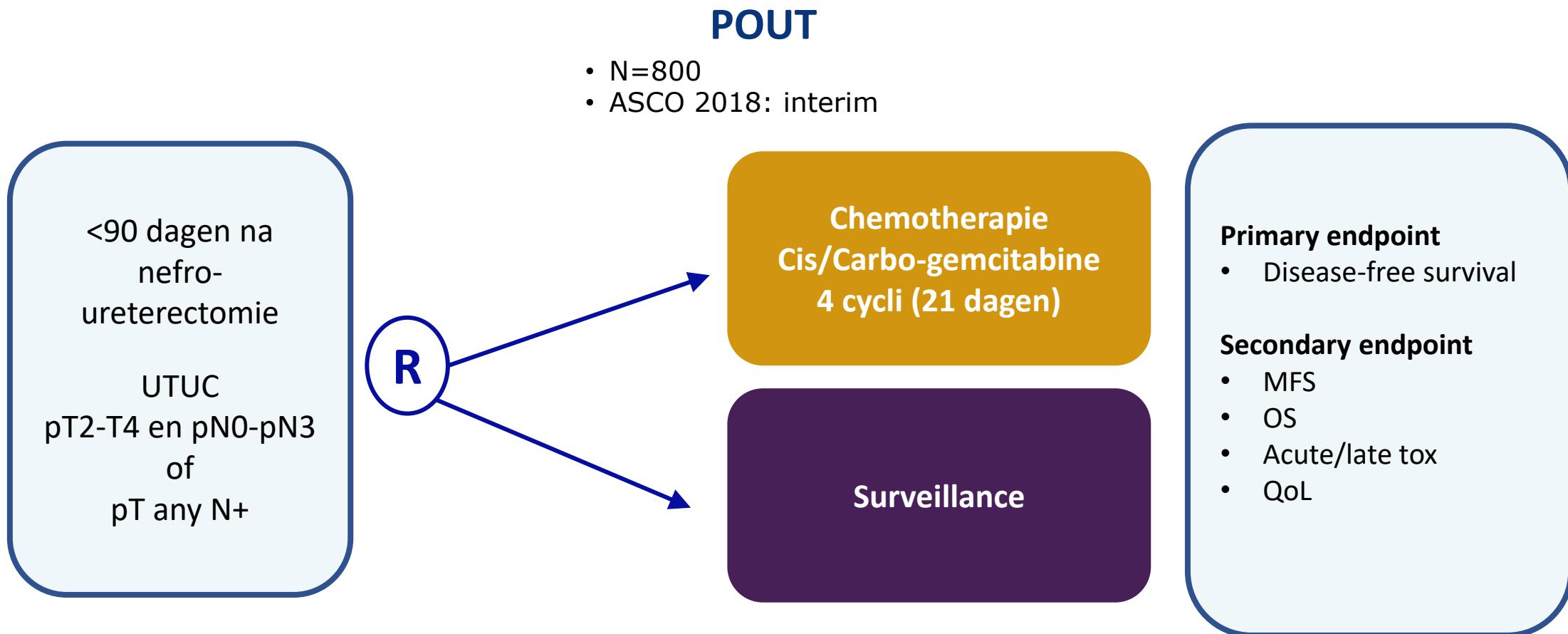


Adjuvante studies



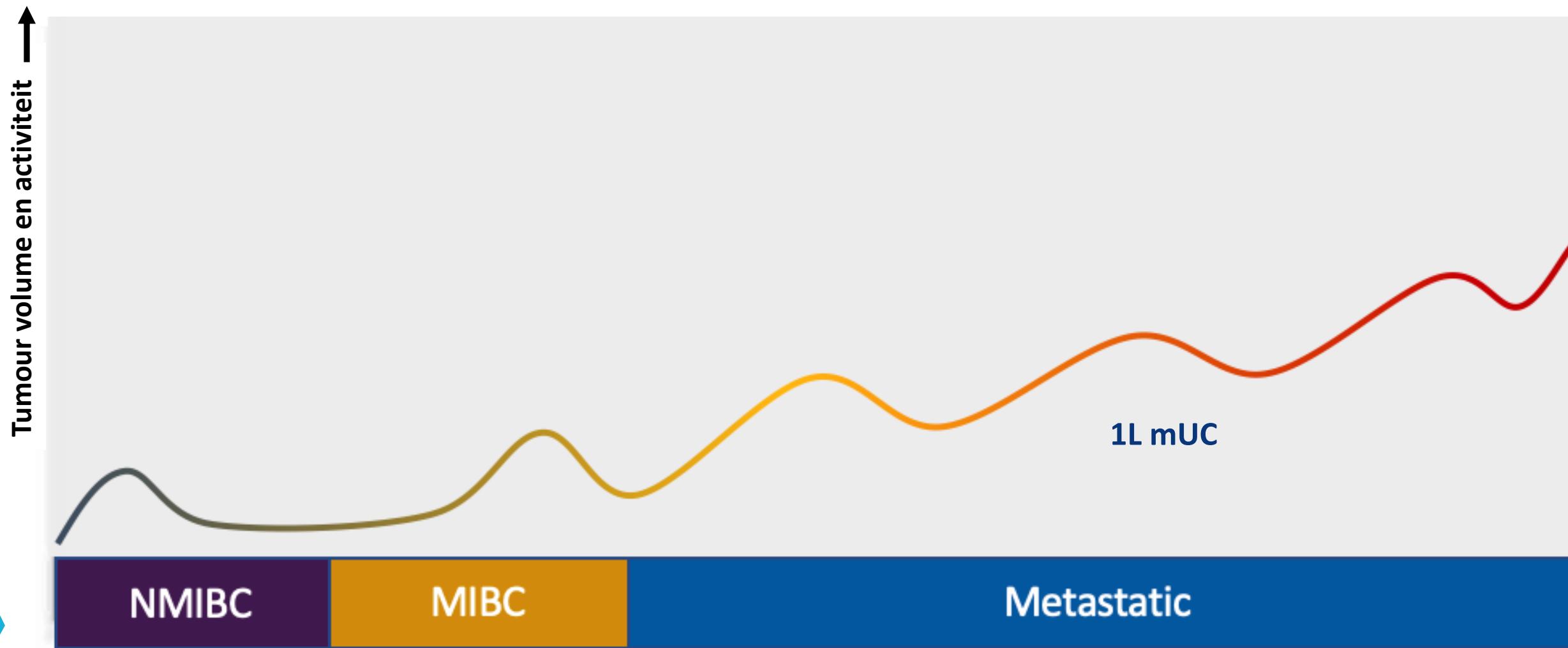
Mediane DFS van 21,0 mnd vs 10,9 mnd; HR 0.70 (0.54-0.90);
Echter, dit is vooralsnog niet regulier beschikbaar.

Adjuvante studies



Significante winst ten opzichte van follow-up (3-jr DFS 71% vs. 50%, HR 0.51 (0.35-0.76) en 3-jr metastase-free survival 72% en 53%, HR 0.52 (0.36-0.77)). De voorlopige OS data zijn niet significant: 3-jr OS 79% vs. 67% (HR 0.70 (0.46-1.06)

mUC 1e lijn



DANUBE fase 3 trial negatief

- Indicatie:
 - Onbehandeld, niet-resectabel locally advanced of gemetastaseerd UCC
 - 1:1:1 randomisatie
 - Durvalumab monotherapie 1500 mg a 4 weken iv
 - Durvalumab 1500 mg + tremelimumab 75 mg (max 4x); beide a 4 weken iv + maintenance durvalumab 1500 mg a 4 weken
 - SOC (gem/cis of gem/carbo)

DANUBE fase 3 trial negatief

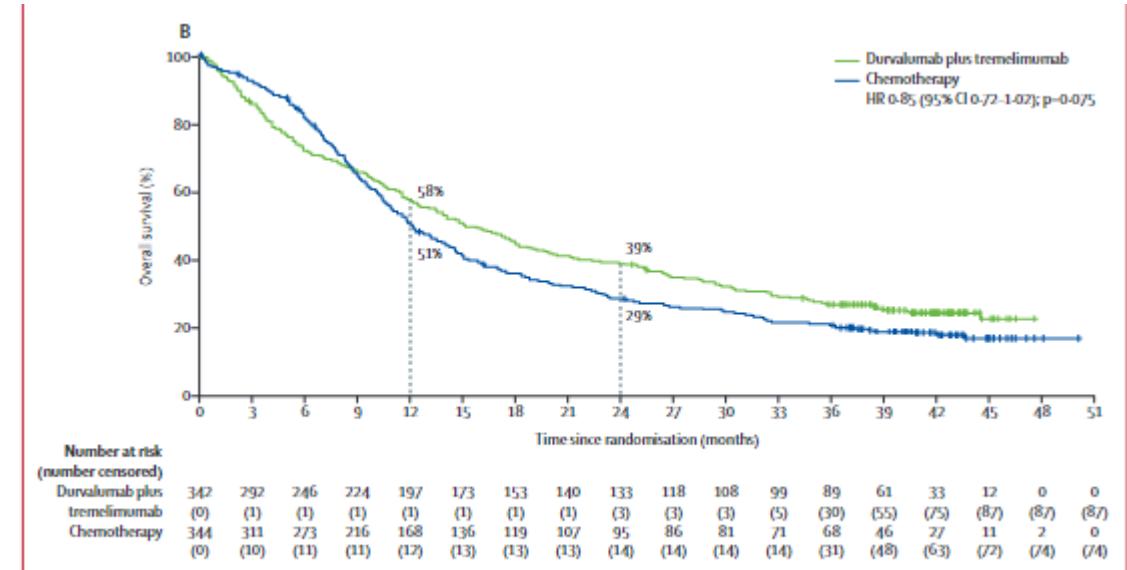
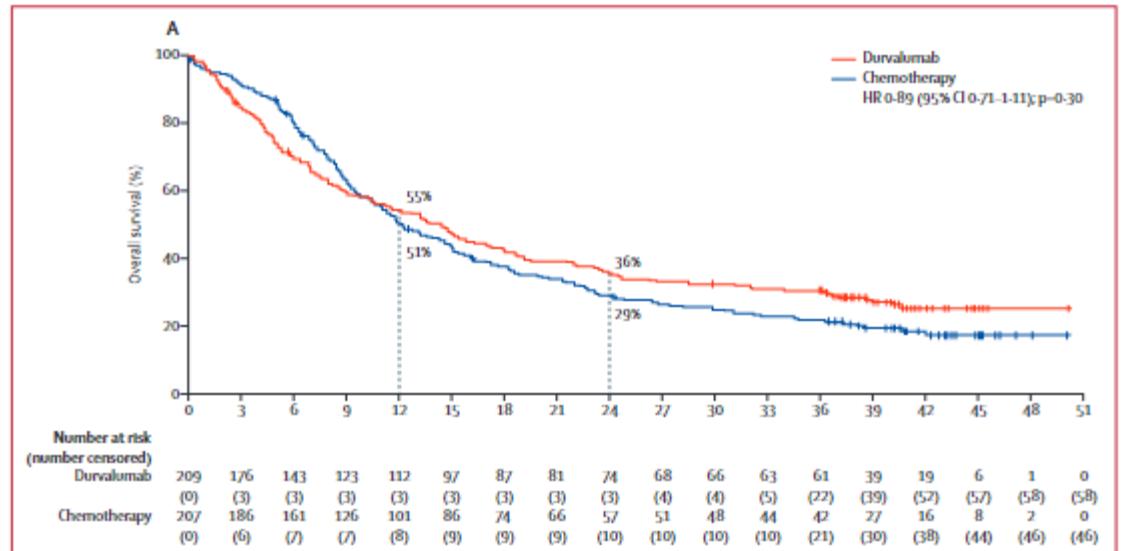
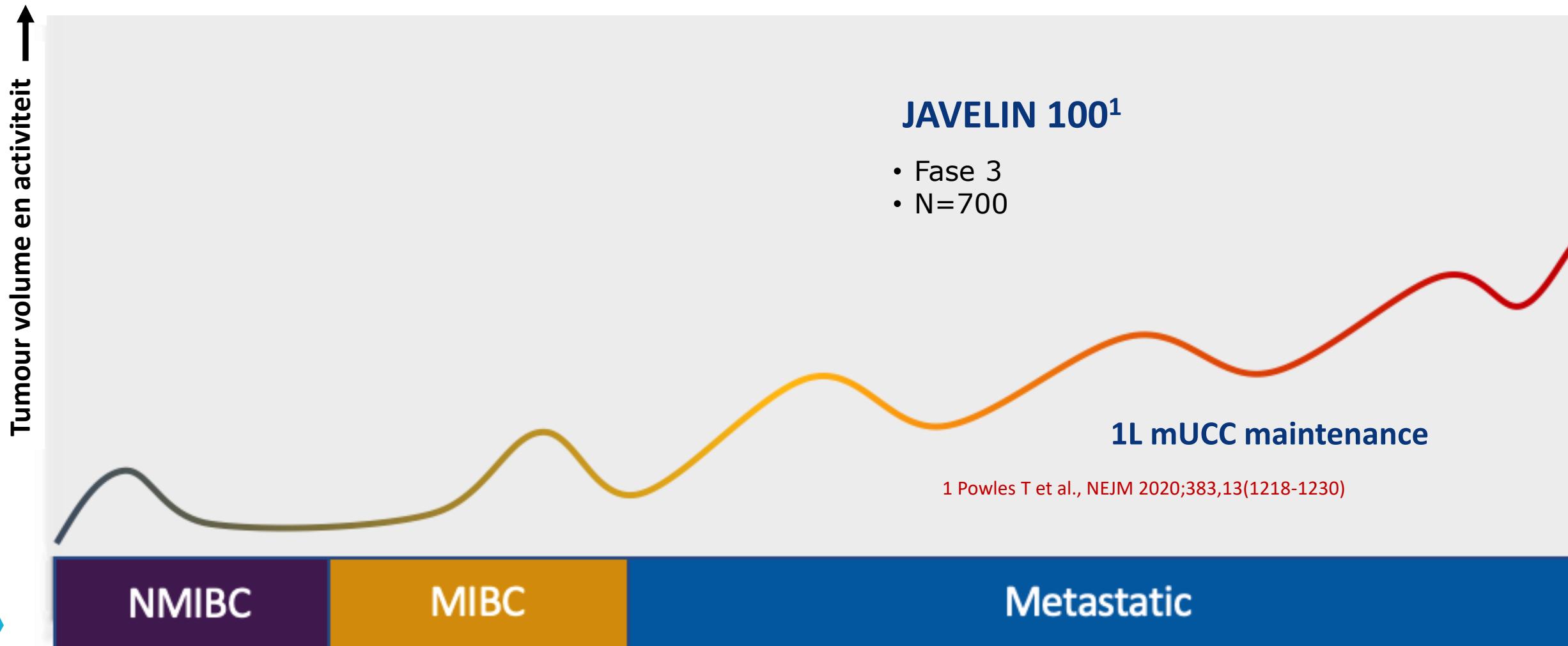


Figure 2: Overall survival (coprimary endpoints)

mUCC 1e lijn maintenance PD-L1

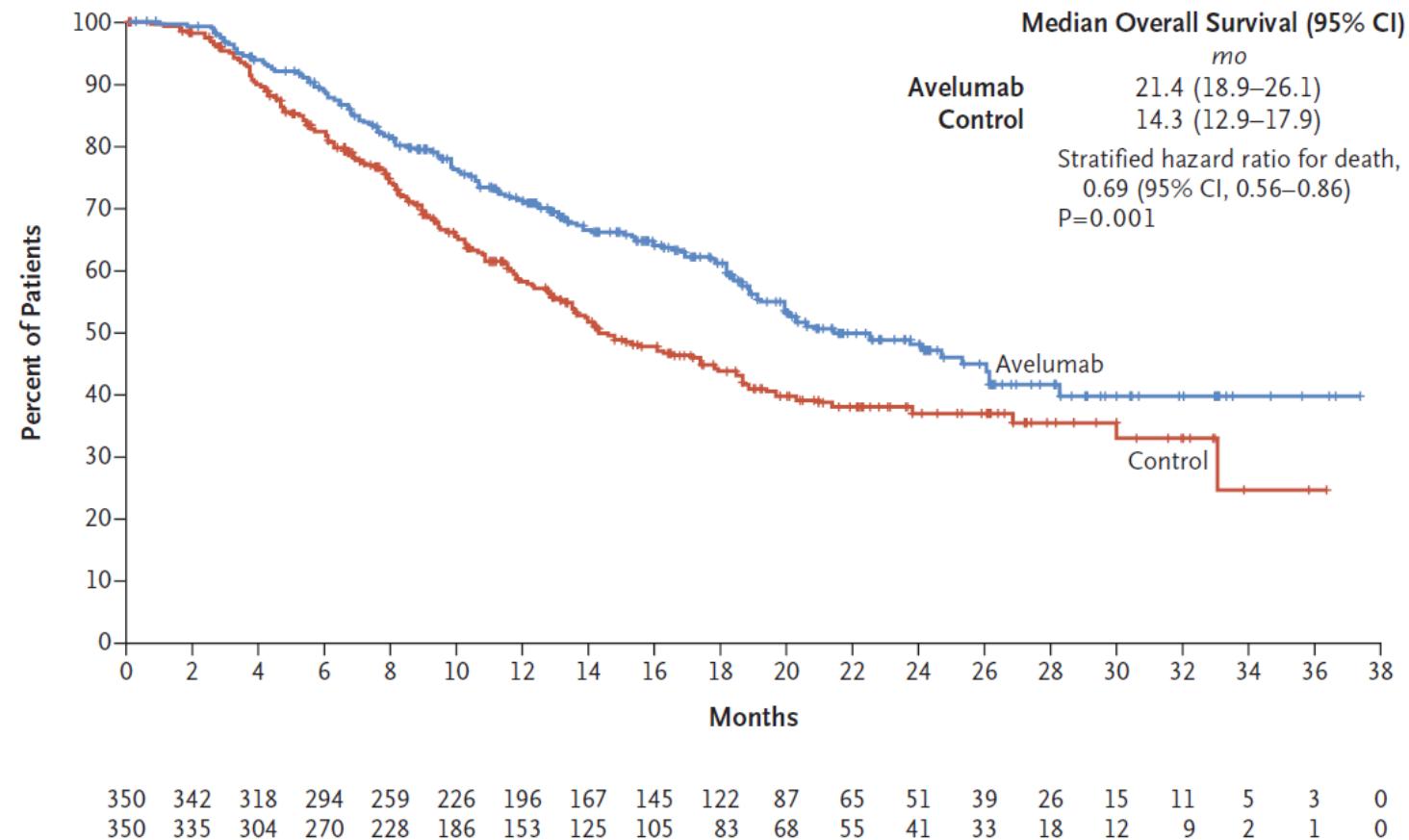


Avelumab maintenance

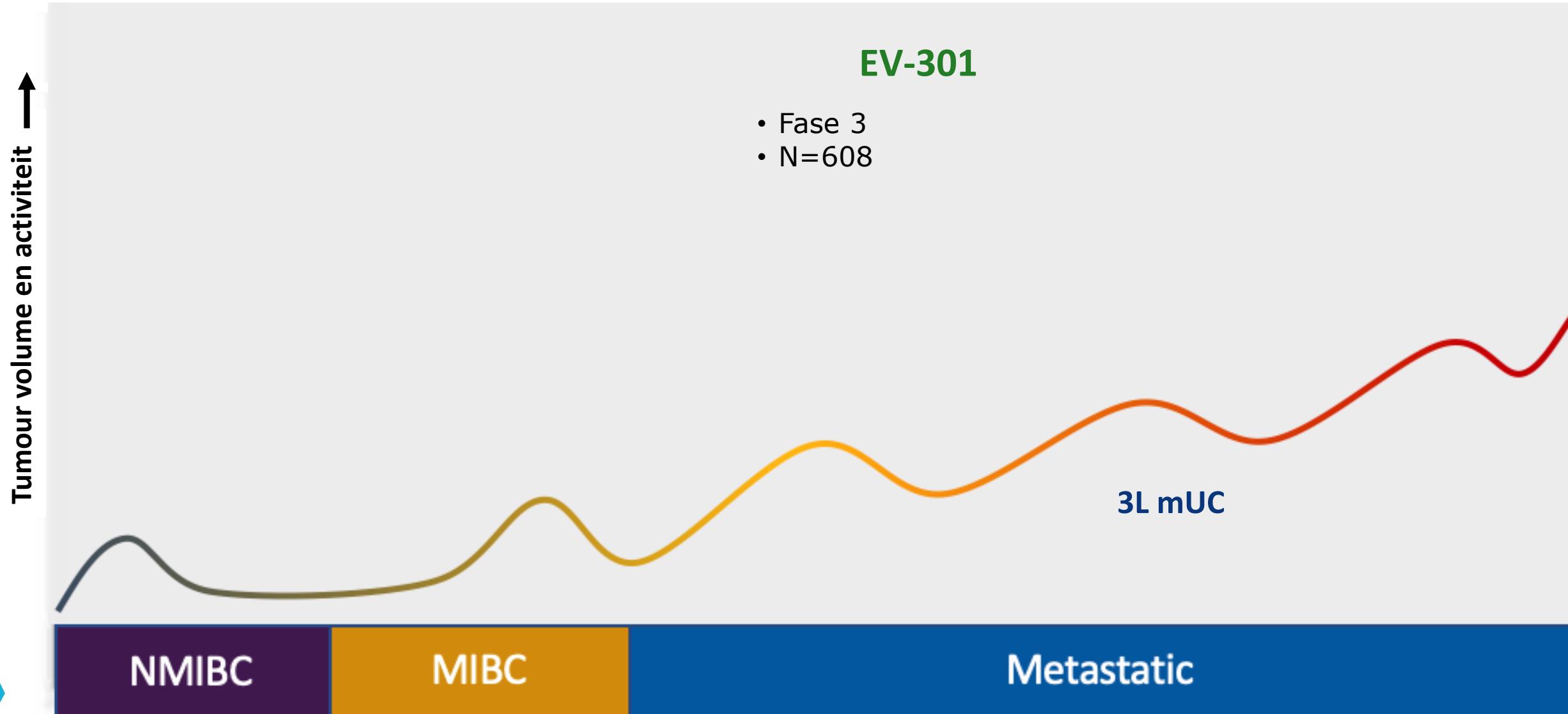
- Indicatie:
 - Niet-resectabel locally advanced of gemitastaseerd UC
 - Geen PD na 4-6 cycli gem/cis of gem/carbo
- Studie armen:
 - Avelumab 10 mg/kg iv a 2 weken tot PD of uncontrolled tox
 - BSC
- Behandeling na PD:
 - Na avelumab: 6,3% anti-PD-1
 - Na BSC: 43,7% anti-PD-1

Avelumab maintenance

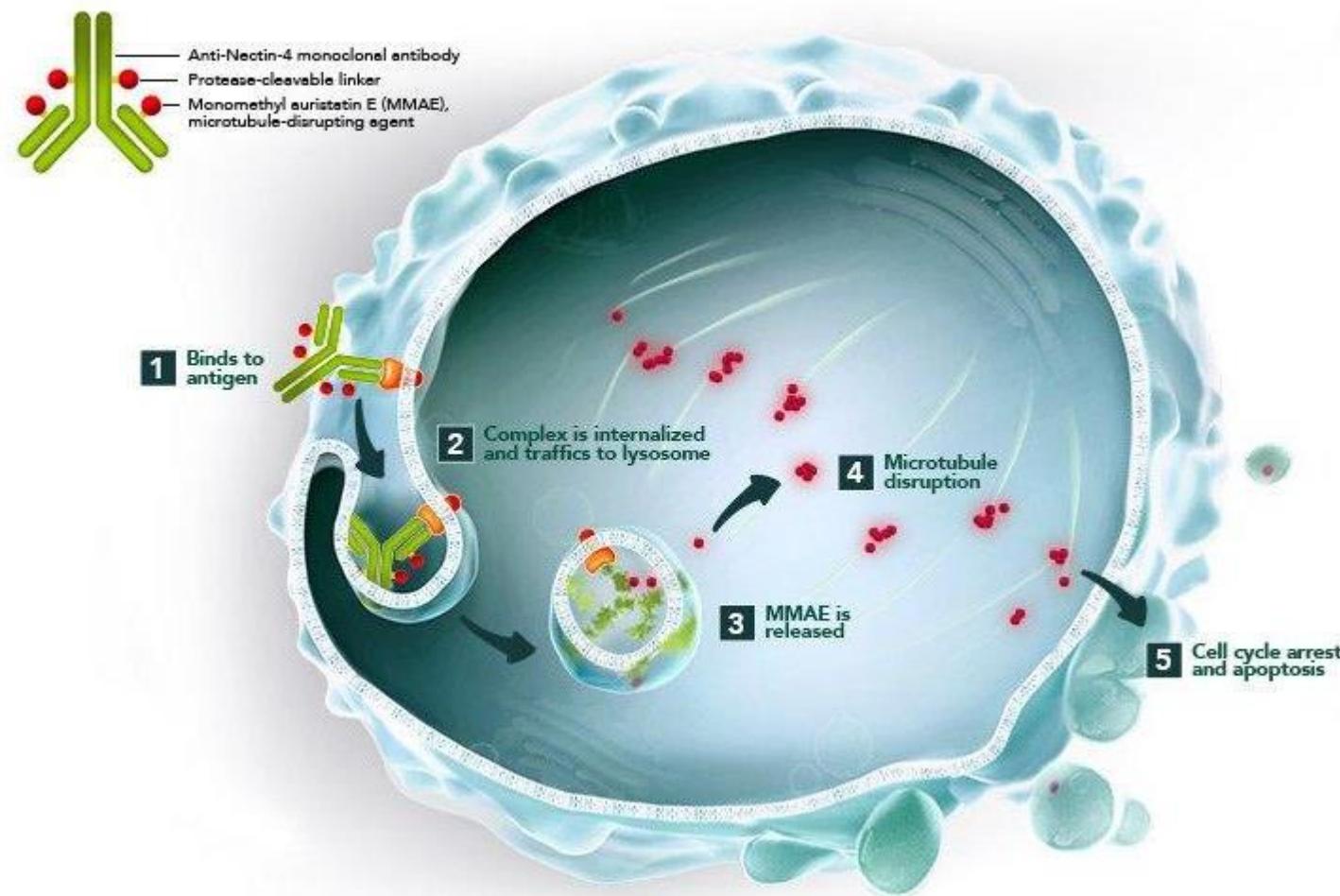
A Overall Population



mUC 3^e lijn: enfortumab vedotin (EV)



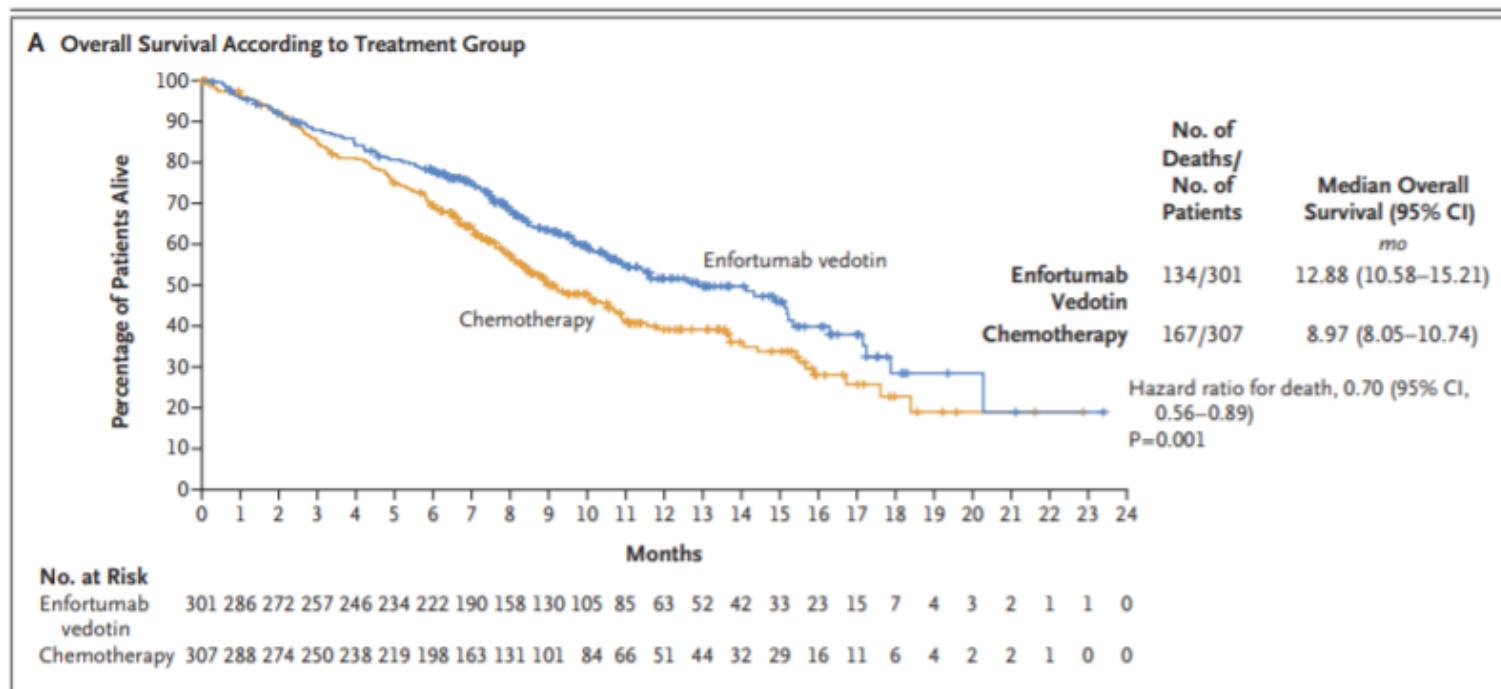
Hoe werkt EV: antibody-drug conjugate



mUC – 3L – positief commissie BOM advies

Lijn	Drug	Comparator	PFS	HR	ΔMo	OS	HR	ΔMo
EV-301	Enfortumab vedotin	CT	ITT	0.61 (0.50-0.75)	1.9	ITT	0.70 (0.56-0.89)	3.9

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Vragen?