

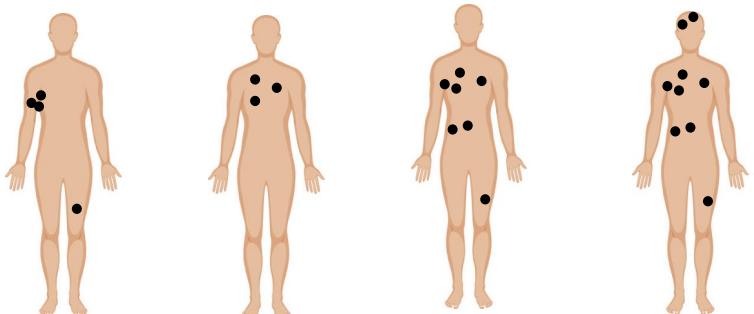


STADIUM IV MELANOOM: UPDATE

Dr. Sofie Wilgenhof
25 januari 2020

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1



STADIUM IV MELANOOM

IV-M1a
huid, spier en/of
kliermetastasen

IV-M1b
longmetastasen

IV-M1c
viscerale
metastasen

IV-M1d
hersen-
metastasen

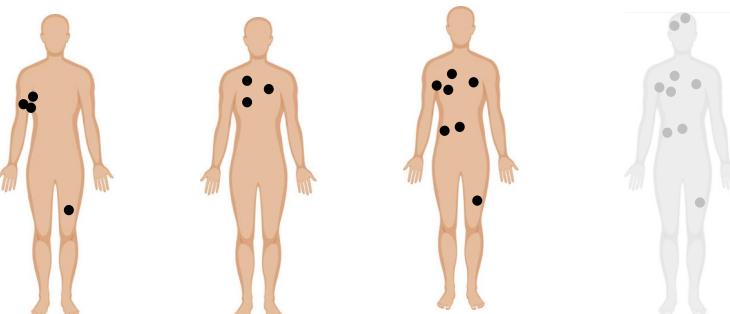
Lactaat dehydrogenase: niet verhoogd/verhoogd

In Amin, M.B., et al. (Eds.) AJCC Cancer Staging Manual. 8th Ed. New York: Springer. 2017

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2

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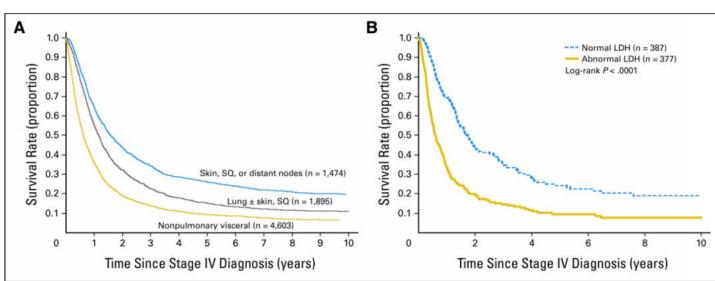
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STADIUM IV MELANOOM

Op basis van lokalisatie van de metastasen en lactaat dehydrogenase (LDH):



A

Metastasis Location	n
Skin, SQ, or distant nodes	1,474
Lung ± skin, SQ	1,895
Nonpulmonary visceral	4,603

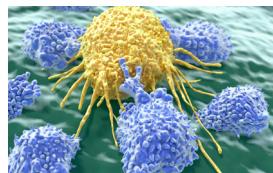
B

Normal LDH (n = 387)
Abnormal LDH (n = 377)
Log-rank $P < .0001$

Balch et al. JCO 2009 
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4

STADIUM IV MELANOOM: BEHANDELING



IMMUNOTHERAPIE
(CHECKPOINT REMMERS)



DOELGERICHTE
BEHANDELING

(BRAF GEMUTEERD
MELANOOM)

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5

STADIUM IV MELANOOM: BEHANDELING: 2020

IMMUNOTHERAPIE
(CHECKPOINT REMMERS)

- Anti-PD-1 antilichaam:
 - Pembrolizumab
 - Nivolumab
- Anti-CTLA-4 antilichaam:
 - Ipilimumab
- Anti-CTLA-4 + anti-PD-1 antilichaam:
 - Ipilimumab + nivolumab

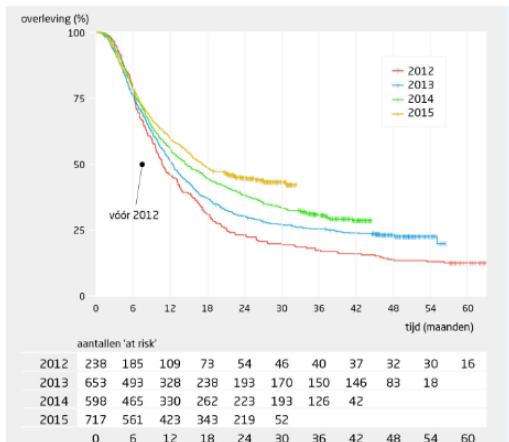
DOELGERICHTE
BEHANDELING

- BRAF + MEK inhibitor
 - Vemurafenib + cobimetinib
 - Dabrafenib + trametinib
 - Encorafenib + binimatinib

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VERBETERING VAN OVERLEVING: NEDERLAND



Van Zeijl et al. NTvG 2018 

7

STADIUM IV MELANOON: BEHANDELING: RECENTE GEGEVENS

4. Combinatie immunotherapie + BRAFi + MEKi

IMMUNOTHERAPIE (CHECKPOINT REMMERS)

- Anti-PD-1 antilichaam:
 - Pembrolizumab 
 - Nivolumab
- Anti-CTLA-4 antilichaam:
 - Ipilimumab
- Anti-CTLA-4 + anti-PD-1 antilichaam:
 - Ipilimumab + nivolumab 

DOELGERICHTE BEHANDELING

- BRAF + MEK inhibitor
 - Vemurafenib + cobimetinib
 - Dabrafenib + trametinib 
 - Encorafenib + binimetinib

5. nieuw/verwacht?

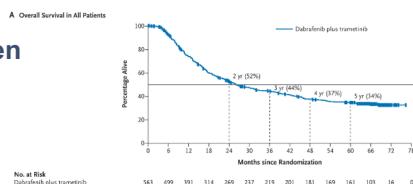


8

1. DABRAFENIB + TRAMETINIB: UPDATE



- **Hoge responskans: 70%**
- Mediane tijd tot progressie: **11 maanden**
- Na **5 jaar**: nog **34%** van de patiënten in leven
- Patiënten met **normaal LDH**, **weinig uitzaaiingen**, **goede conditie**: betere uitkomst
- **Bijwerkingen**: koorts, vermoeidheid, misselijkheid, diarree, gewrichts-en spierpijn



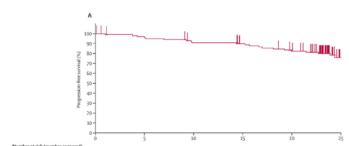
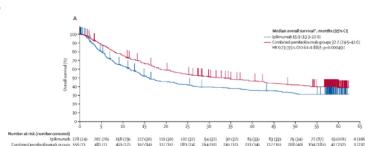
Robert C. et al. NEJM 2019 ANTONI VAN LEEUWENHOEK NEDERLANDS KANKER INSTITUUT

9

2. PEMBROLIZUMAB: UPDATE



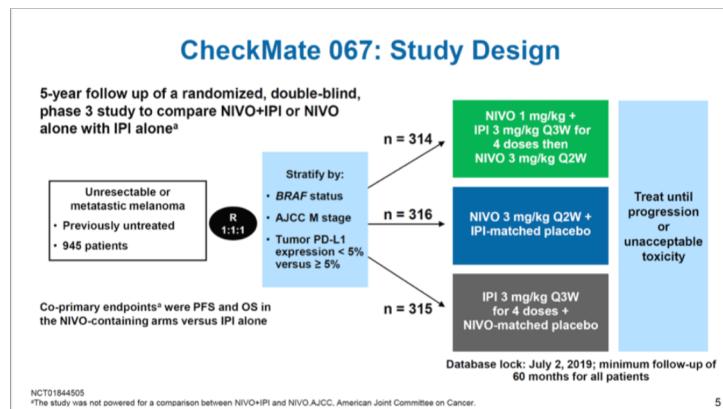
- **Anti-PD-1 antilichaam** is beter dan een anti-CTLA-4 antilichaam
- Responskans: **45%**
- Na **5 jaar**: nog **38%** van de patiënten in leven
- Patiënten met respons op de behandeling, hebben een erg goede uitkomst na stoppen van behandeling (2 jaar)
- De optimale duur van behandeling is onbekend
- Ernstige immunotherapie-gerelateerde bijwerkingen: **15%**



Robert C. et al. Lancet Oncol. 2019 ANTONI VAN LEEUWENHOEK NEDERLANDS KANKER INSTITUUT

10

3. IPILIMUMAB + NIVOLUMAB: UPDATE



Larkin et al. NEJM 2019



11

Response to Treatment

	NIVO+IPI (n = 314)	NIVO (n = 316)	IPI (n = 315)
ORR, % (95% CI)	58 (53–64)	45 (39–50)	19 (15–24)
Best overall response, %			
Complete response	22	19	6
Partial response	36	26	13
Stable disease	12	9	22
Progressive disease	24	38	50
Unknown	6	8	9
ITT median duration of response, months (95% CI)	NR ^a 113/183 (62)	NR (50.4–NR) 86/141 (61)	14.4 (8.3–53.6) 24/60 (40)
Continued response, n/N (%)			

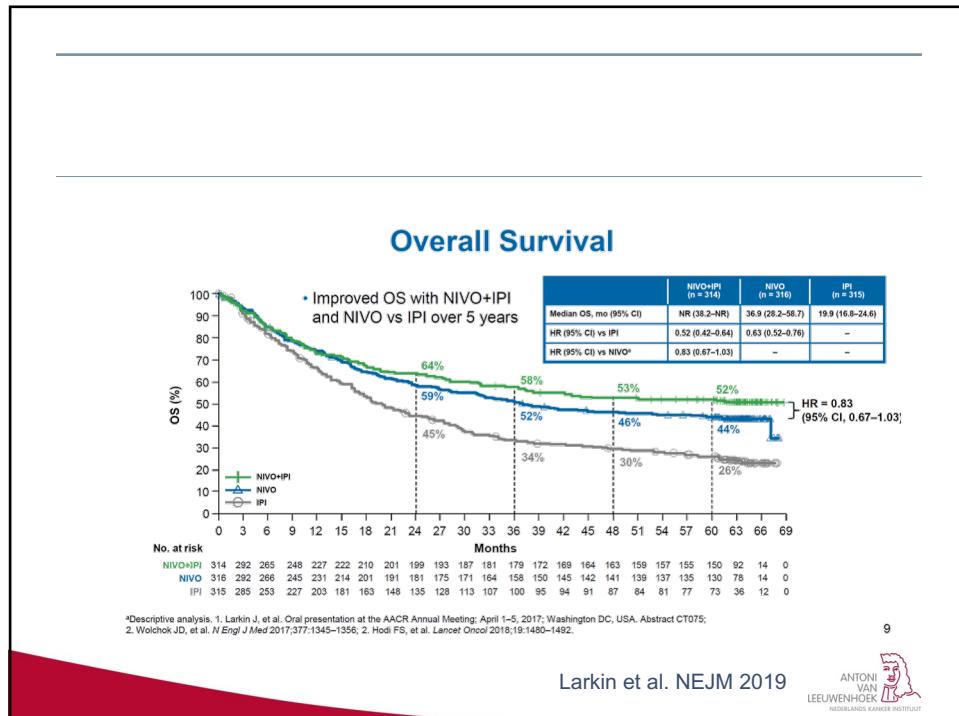
- While ORR has remained stable, rates of CR have increased over the 3-, 4-, and 5-year analyses^{1,2}
 - 19%, 21%, and 22% for NIVO+IPI
 - 16%, 18%, and 19% for NIVO
 - 5%, 5%, and 6% for IPI

^aAlthough a median was reported at the previous analysis, that estimate was immature and greater than the minimum study follow-up. ITT, intention to treat.
1. Wolchok JD, et al. *N Engl J Med* 2017;377:1345–1356; 2. Hodi FS, et al. *Lancet Oncol* 2018;19:1480–1492.

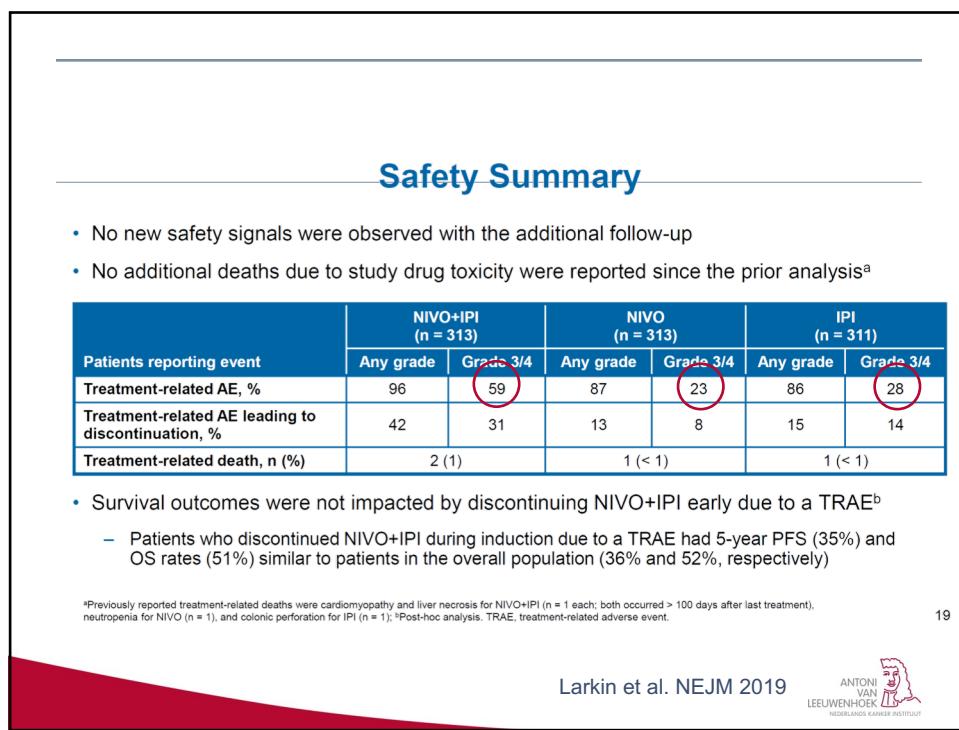
Larkin et al. NEJM 2019



12



13



14

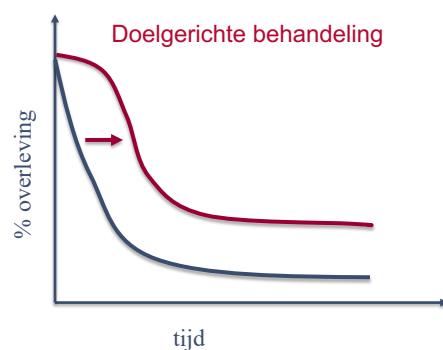
3. IPILIMUMAB + NIVOLUMAB: UPDATE SAMENGEVAT

- Combinatiebehandeling (ipi + nivo) heeft een **hoge responskans: 60%**
(ipilimumab behoudt een responskans van 15% na anti-PD-1)
- Er is **geen significant overlevingsvoordeel** aangetoond van combinatiehandeling (ipi+nivo) in vergelijking met nivolumab monotherapie.
- Na **5 jaar**: nog **52%** van de patiënten in leven
- Combinatiebehandeling (ipi+nivo) gaat vaak gepaard met **ernstige immunotherapie-gerelateerde bijwerkingen: 60%**



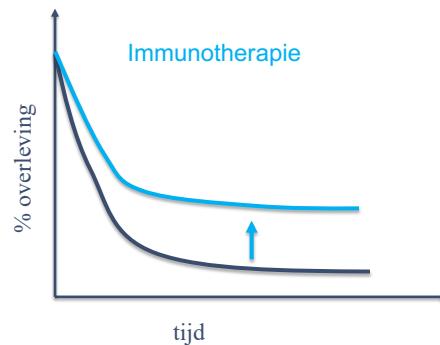
15

4. COMBINATIE IMMUNOTHERAPIE + DOELGERICHTE BEHANDELING



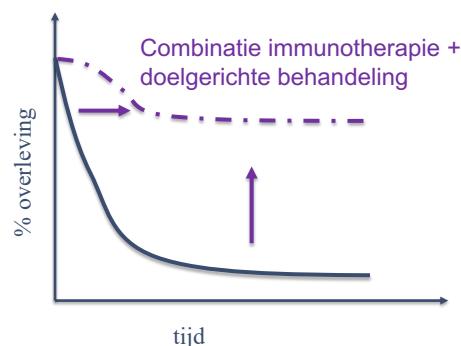
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4. COMBINATIE IMMUNOTHERAPIE + DOELGERICHTE BEHANDELING



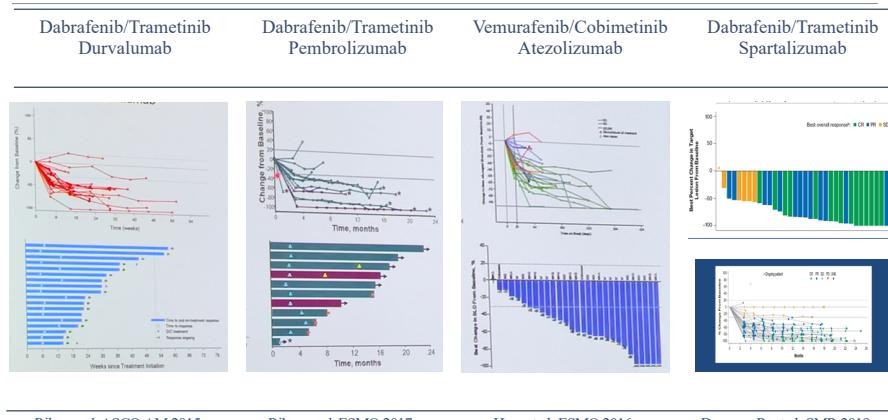
17

4. COMBINATIE IMMUNOTHERAPIE + DOELGERICHTE BEHANDELING



18

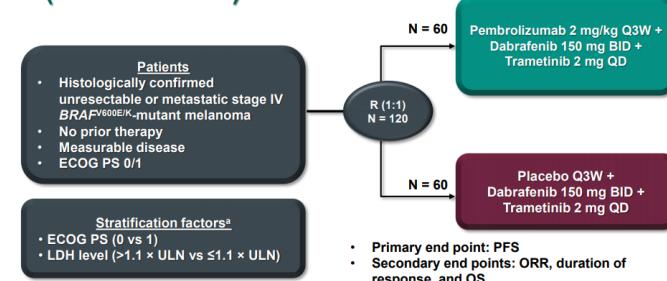
4. COMBINATIE IT (PD-1/-L1 mAb) + BRAF/MEKi fase 1 studies



19

PEMBROLIZUMAB + DABRAFENIB + TRAMETINIB

KEYNOTE-022 Part 3 Study Design (NCT02130466)



*Owing to the small number of patients enrolled in the ECOG PS 1 and LDH strata, these strata were combined.

Ascierto et al. ESMO Meeting 2018



20

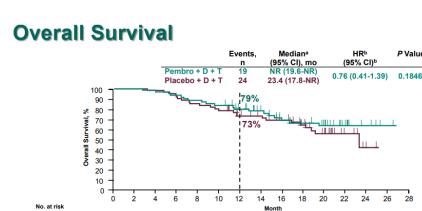
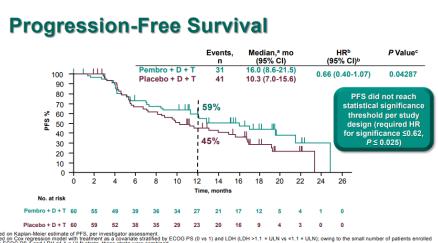
Summary of Adverse Events

	Pembro + D + T n (%) N = 60	Placebo + D + T n (%) N = 60
Any-grade AE	59 (60)	58 (60)
Grade 3-4	41 (67) 2 (3)	2 (45) 0 (0)
Led to death ^a	25 (42)	13 (22)
Led to discontinuation	15 (25)	9 (15)
Treatment-related AE	57 (95)	56 (93)
Grade 3-4	34 (57) 1 (2)	16 (27) 0 (0)
Led to death		
Led to discontinuation of ≥1 study drug	24 (40)	12 (20)

^aOne patient died due to treatment-related pneumonitis and one died of unknown cause. Data cutoff: Feb 15, 2018.
Ascierto PA, et al. Ann Oncol. 2018;29(Suppl 8): Abstract 12440.



21



22

5. VERWACHT...

COMBINATIE BEHANDELING



- Immunotherapie + immunotherapie
 - Pembrolizumab + T-VEC versus pembrolizumab
 - Nivolumab + anti-LAG-3 versus nivolumab
 - Nivolumab + NKTR-214 versus nivolumab
- Immunotherapie + doelgerichte behandeling
 - Atezolizumab + vemurafenib + cobimetinib versus placebo + vemurafenib + cobimetinib
 - PDR001 (anti-PD-1) + dabrafenib + trametinib versus placebo + dabrafenib + trametinib



23

CELTHERAPIE

- 2e lijnsbehandeling: TIL (tumor infiltrerende lymfocyten) versus ipilimumab (AVL-Amsterdam)

SWITCHEN?

- Tijdelijke doelgerichte behandeling gevolgd door switchen naar immunotherapie versus onmiddellijk immunotherapie

WANNEER IMMUNOTHERAPIE STOPPEN?



24



25

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