



# ***IMMUNOTHERAPY IN ADVANCED NECK CANCER – STATE OF THE ART***

***DDHO, SEA ISLAND, 2026***

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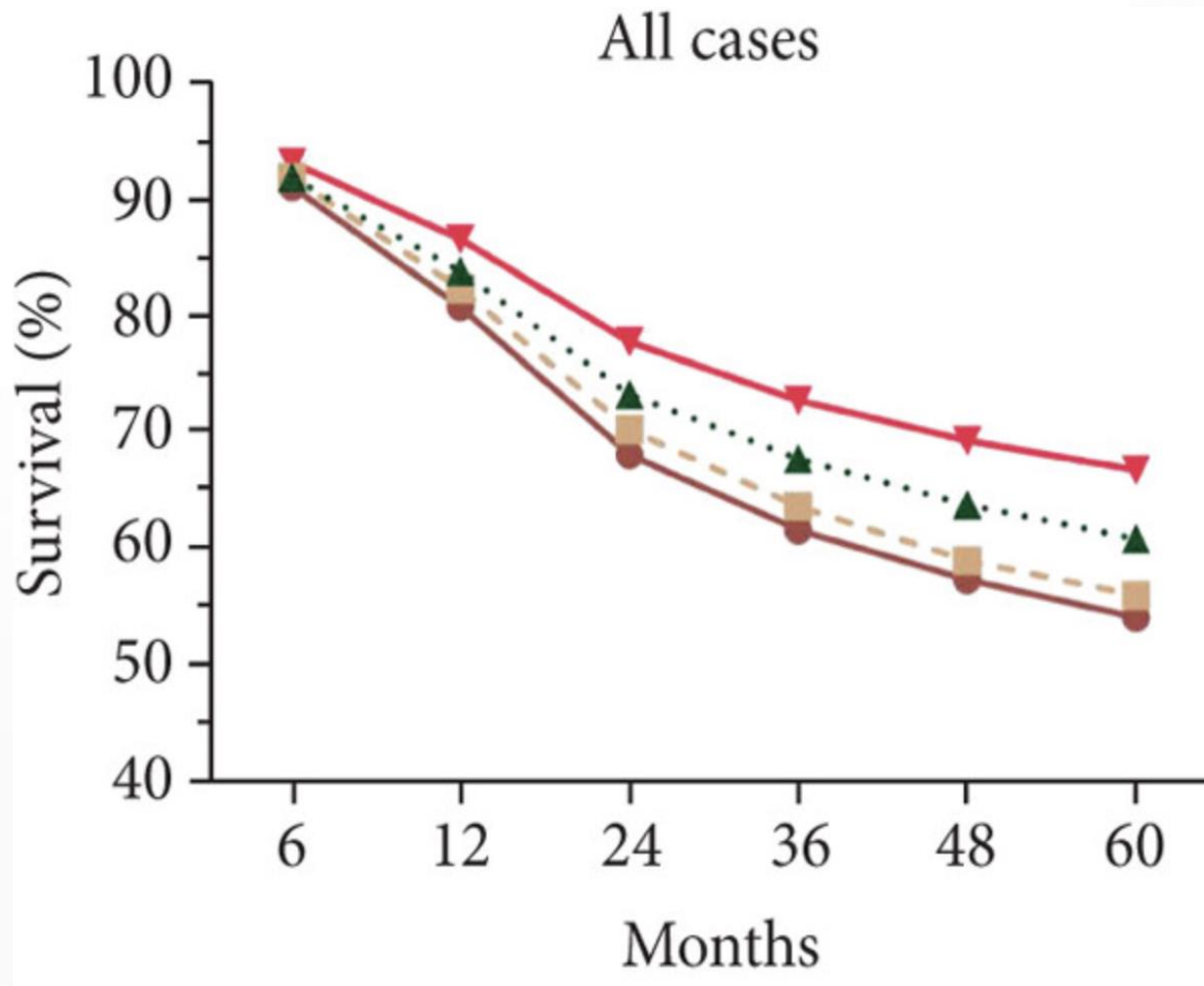


## POTENTIAL CONFLICT OF INTEREST

Dr Nabil Saba reports funding through federal grants UG1 CA233247, U54 CA274513, and grants from Exelixis and BMS

Reports having compensated or non-compensated advisory role with: Astra Zeneca Eisai Medical Exelixis Merck Merck EMD Serono, Pfizer, Kura, Vaccinex, CUE, BionTech, GSK, TOSK, Seagen, Flamingo, Infinity , Inovio, Aveo, Medscape, Onclive, Uptodate, BMS, J&J, JohnsonCornerstone, Celldex, Surface Oncology, Urogen, Summit, Guidepoints, Astex, Imugene, Faron Pharmaceutical , Coherus, Adagene, Fulgent, Reddy Laboratories, Springer, Nanobiotix, Taiho

## HNSCC- THE DISEASE BURDEN



Guo, K, Biomed Search Intern, 2021

Annual new cases (global): up to 950,000

4–5% of all global cancer  
Mortality rate (age-standardized):

4.9 per 100,000 worldwide

450,000 deaths/year globally  
from HNSCC alone

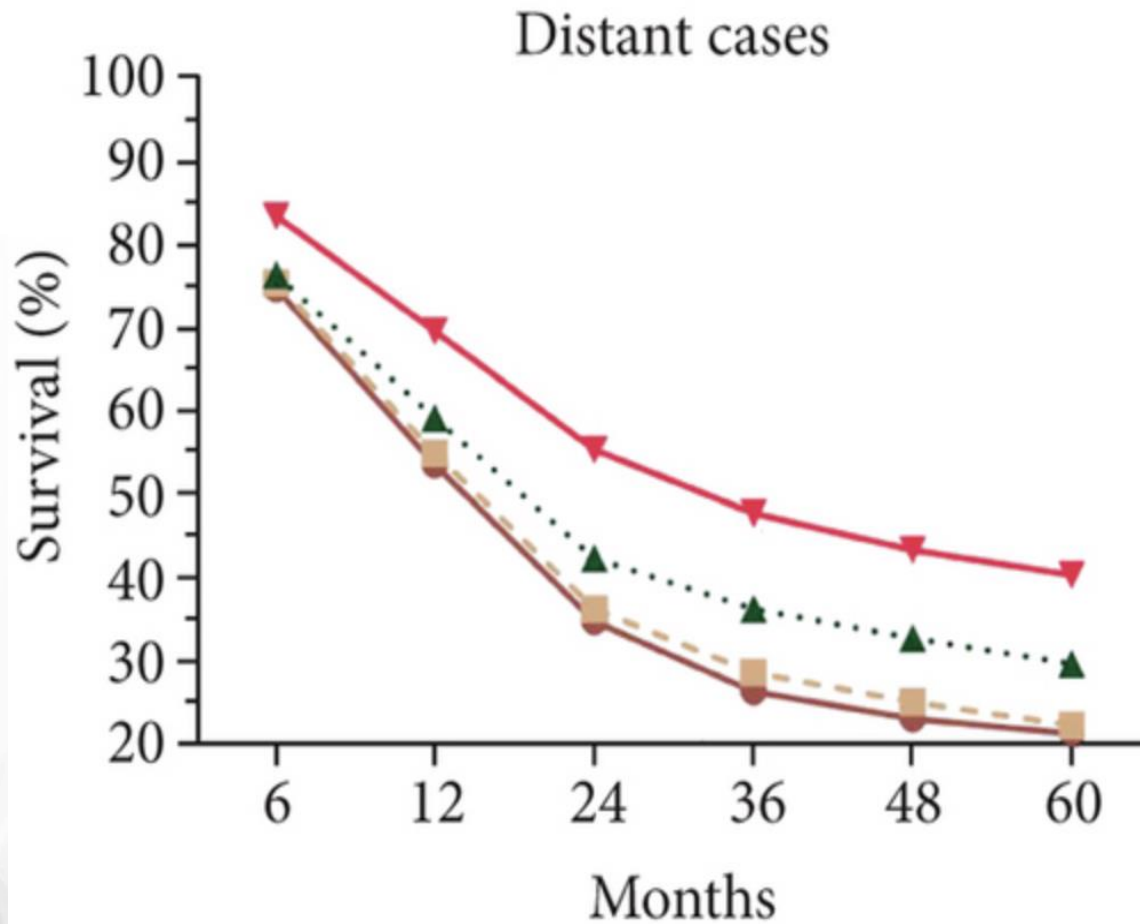


## R OR M HNSCC – THE DISEASE BURDEN

HNSCC is not just a high-incidence cancer—it is a high-failure cancer

40-60 % with LAD develop recurrence.

Even though only 20–30% become R/M, this accounts for a significant proportion of deaths- especially in HPV unrelated disease.

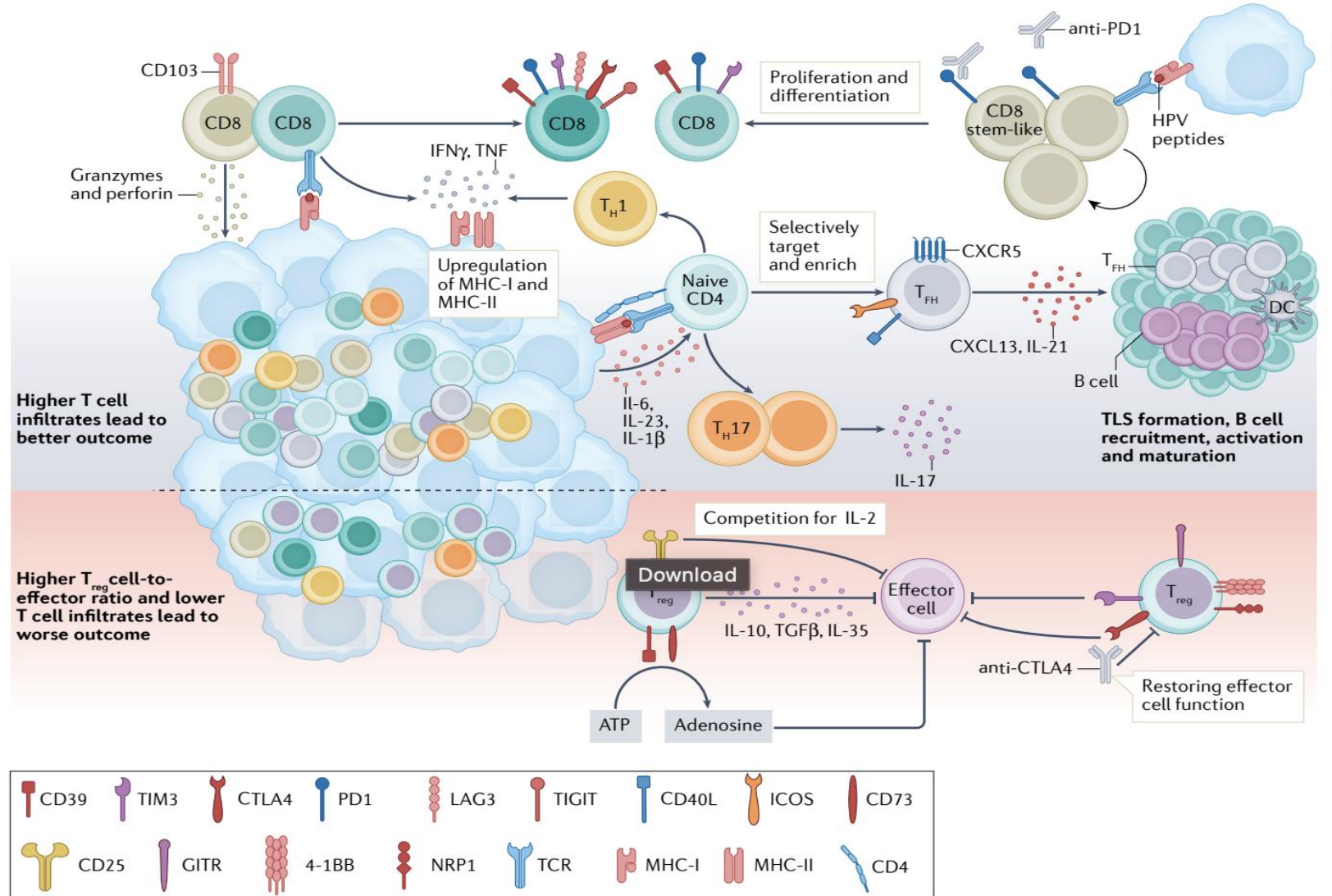




# THE RATIONALE OF IMMUNOTHERAPY

1. Immune microenvironment
2. PD-1/PD-L1 axis
3. T-cell exhaustion
4. Regulatory T cells
5. Myeloid-derived suppressor cells
6. Tumor-associated macrophages
7. HPV-mediated immune modulation
8. Tobacco-associated mutational landscape
9. IFN- $\gamma$  signaling
10. Antigen presentation loss

Ruffin AT, Nat Rev Cancer, 2023



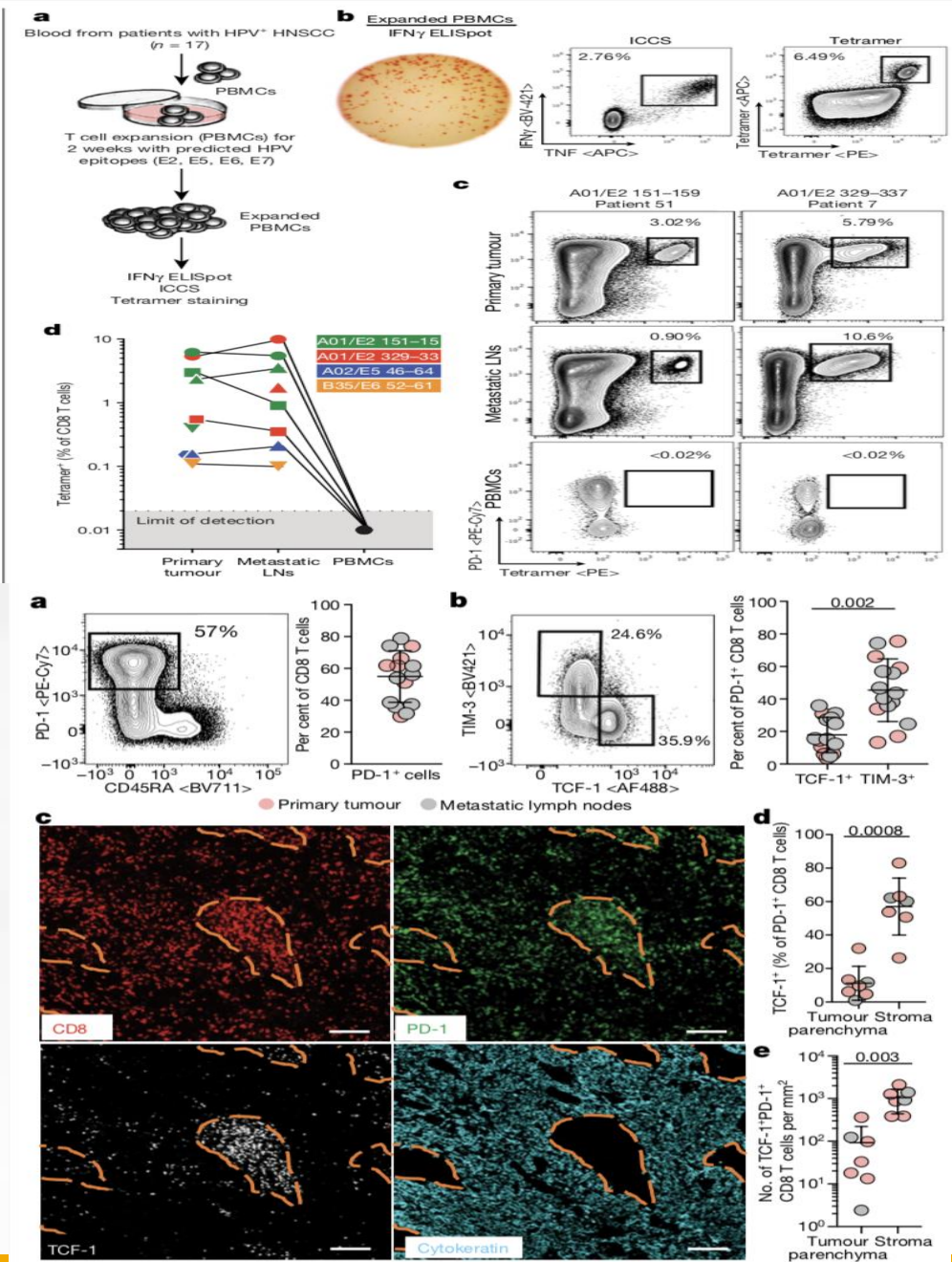
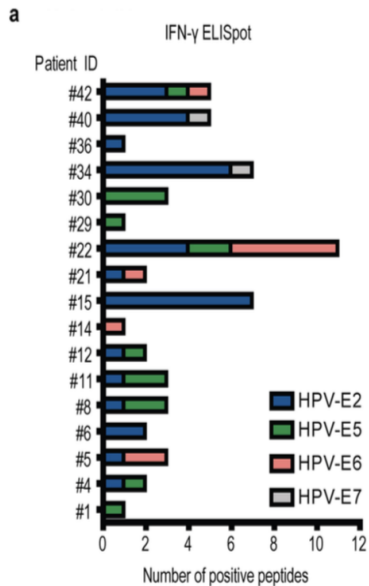
# Functional HPV-specific PD-1<sup>+</sup> stem-like CD8 T cells in head and neck cancer

Christiane S. Eberhardt, Haydn T. Kissick, Mihir R. Patel, Maria A. Cardenas, Nataliya Prokhnevskaya, Rebecca C. Obeng, Tahseen H. Nasti, Christopher C. Griffith, Se Jin Im, Xu Wang, Dong M. Shin, Mary Carrington, Zhuo G. Chen, John Sidney, Alessandro Sette, Nabil F. Saba, Andreas Wieland & Rafi Ahmed

*Nature* 597, 279–284 (2021) | [Cite this article](#)

- Presence of functional HPV-specific PD-1<sup>+</sup>TCF-1<sup>+</sup>CD45RO<sup>+</sup> stem-like CD8 T cells with proliferative capacity
- Differentiation trajectory from stem-like to transitory to terminally differentiated
- HPV-specific PD-1<sup>+</sup>TCF-1<sup>+</sup> stem-like TILs proliferated and differentiated into more effector-like cells after in vitro stimulation with the cognate HPV peptide

Eberhardt CS, et al, *Nature* 2021







**DR MAURA GILLISON**  
1965-2026

**DR GILLISON DEMONSTRATED THAT HPV  
PARTICULARLY HPV 16  
WAS THE CAUSE OF A DISTINCT SUBSET OF  
OROPHARYNX CANCER**

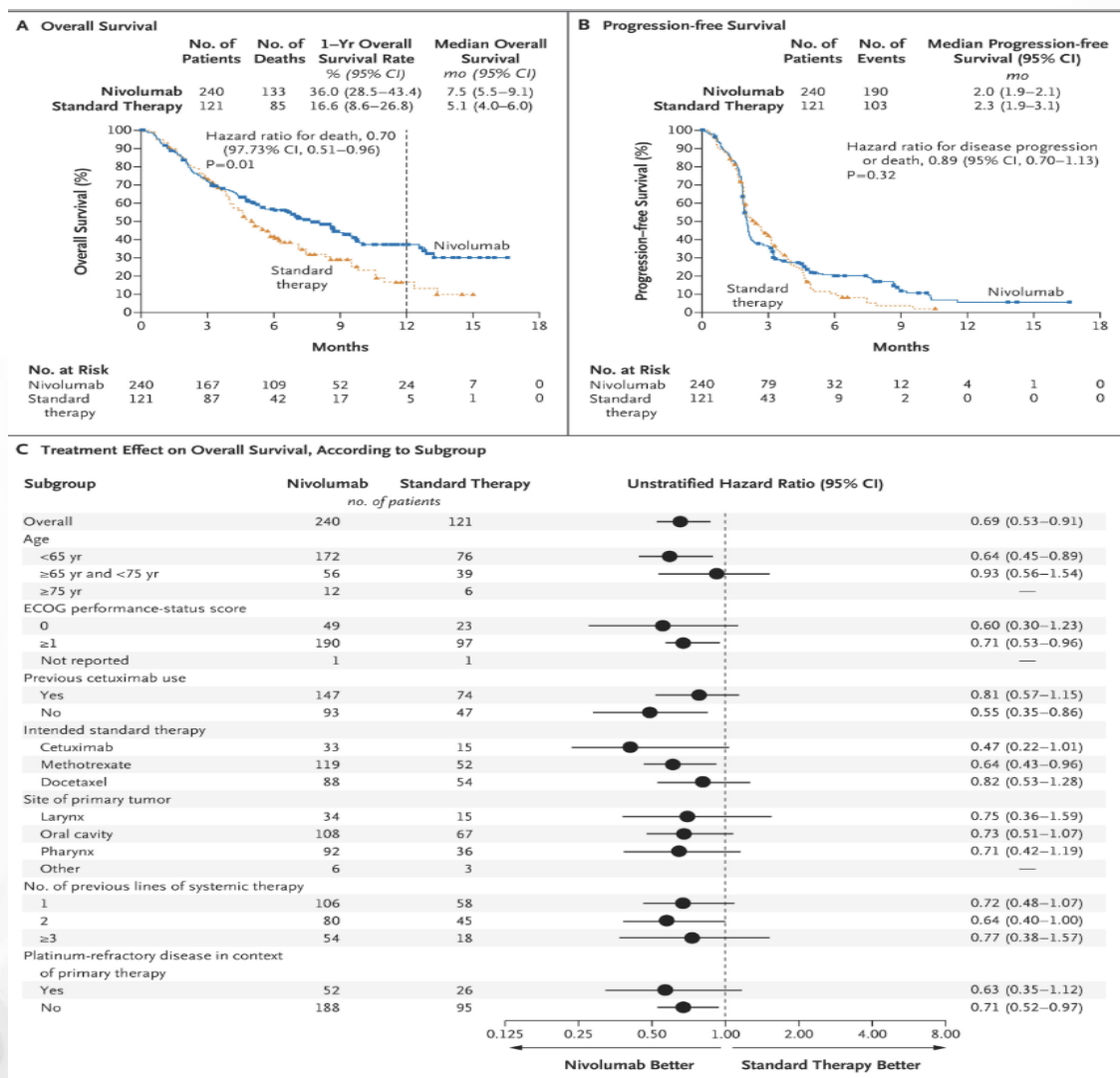


**April 2016**

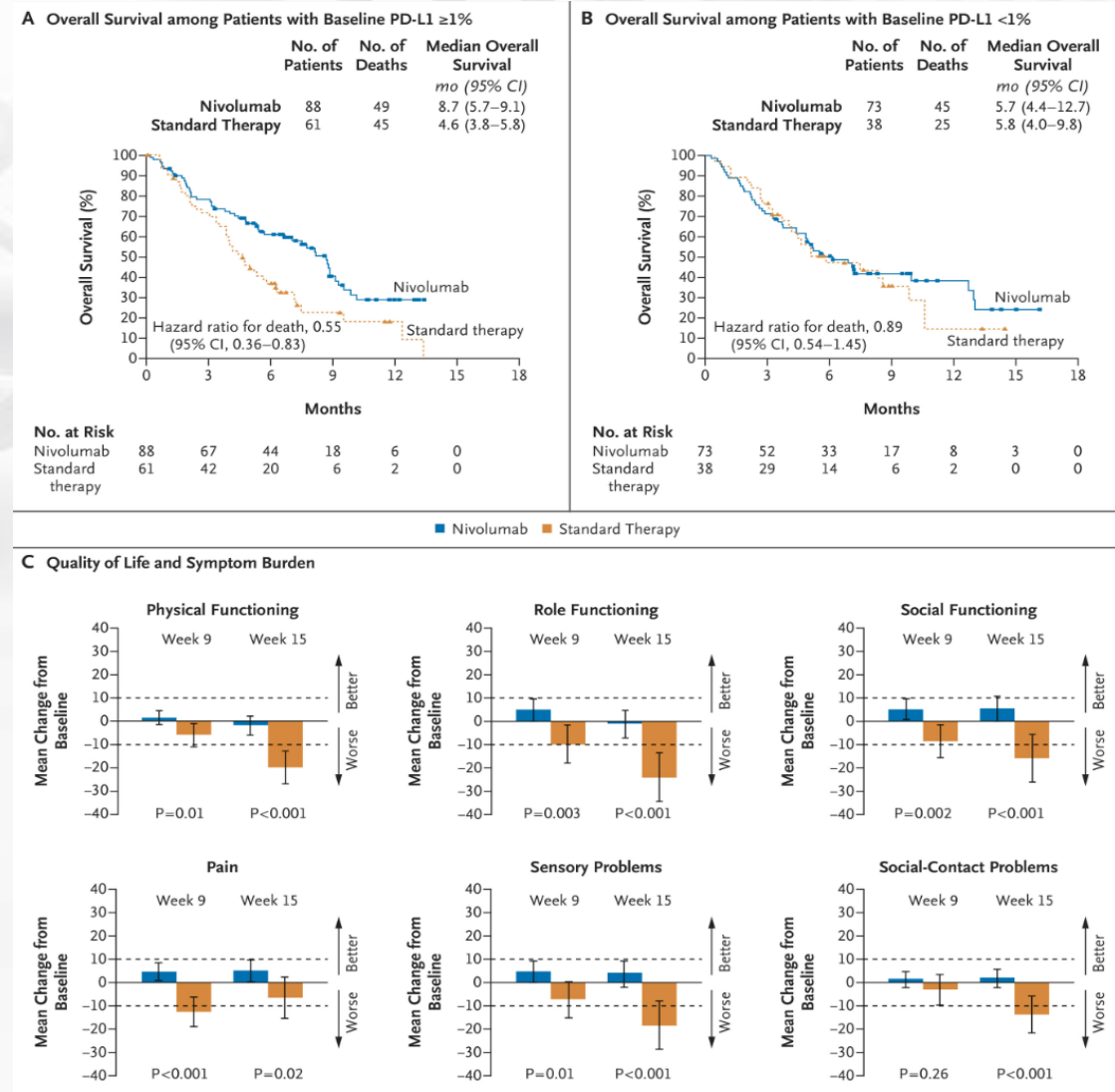


**September 2024**

# CHECKMATE 141: NIVOLUMAB IN PLATINUM EXPOSED PATIENTS

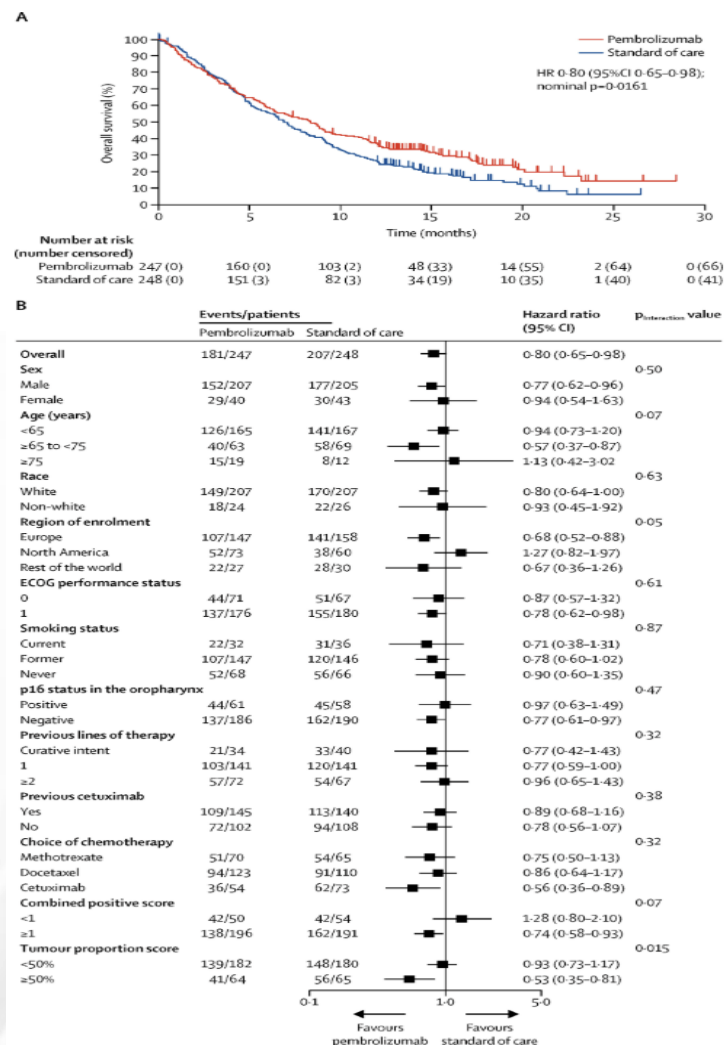


Ferris R, et al, NEJM 2016

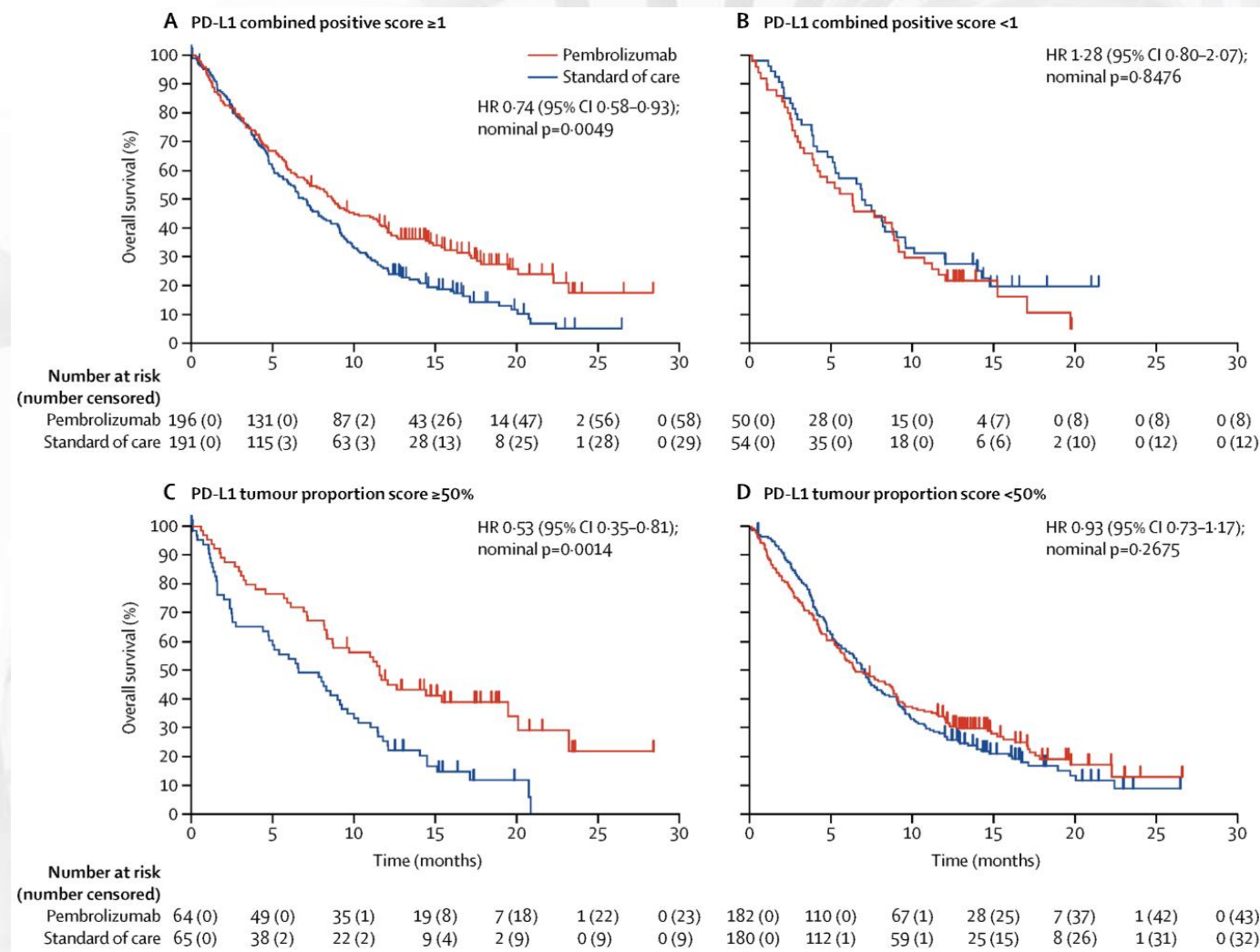




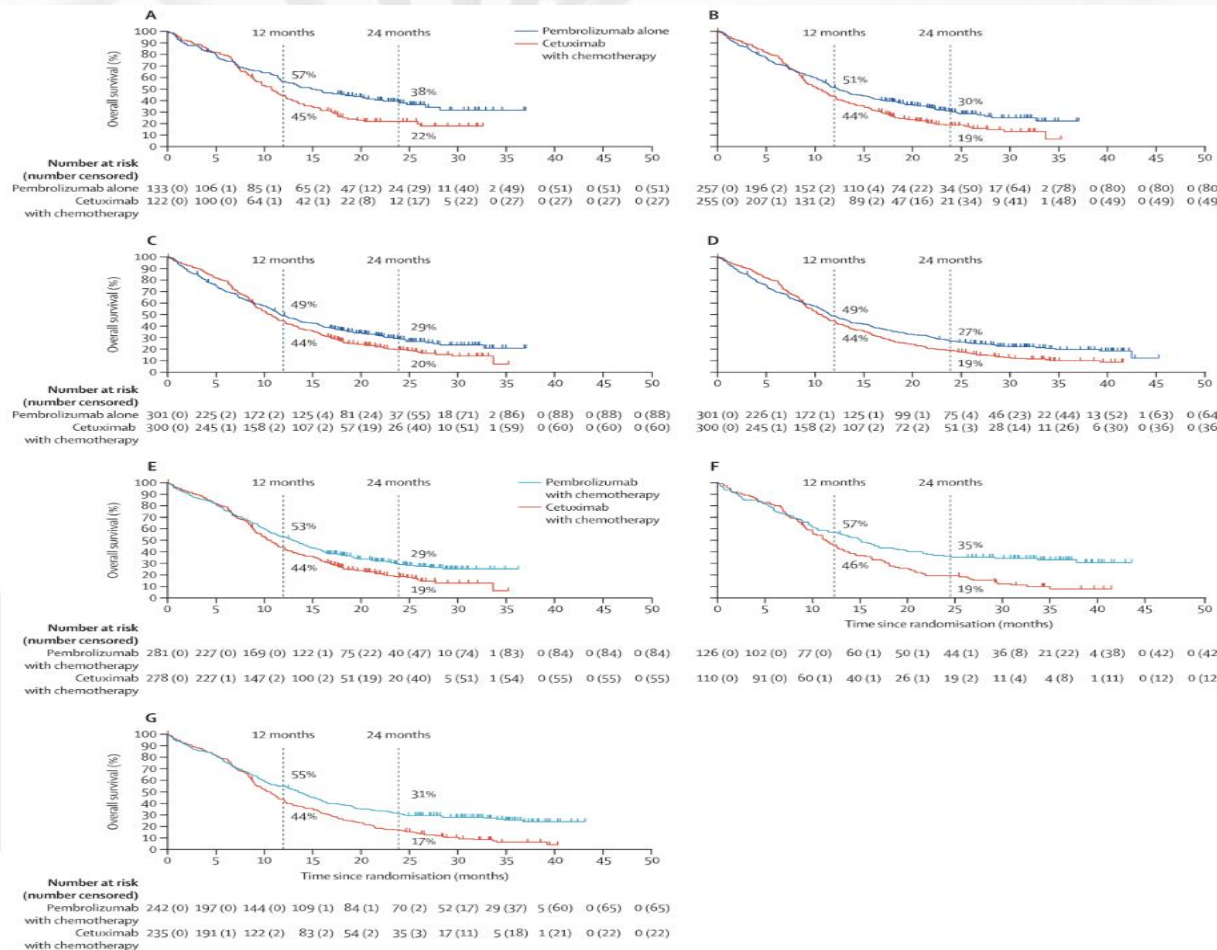
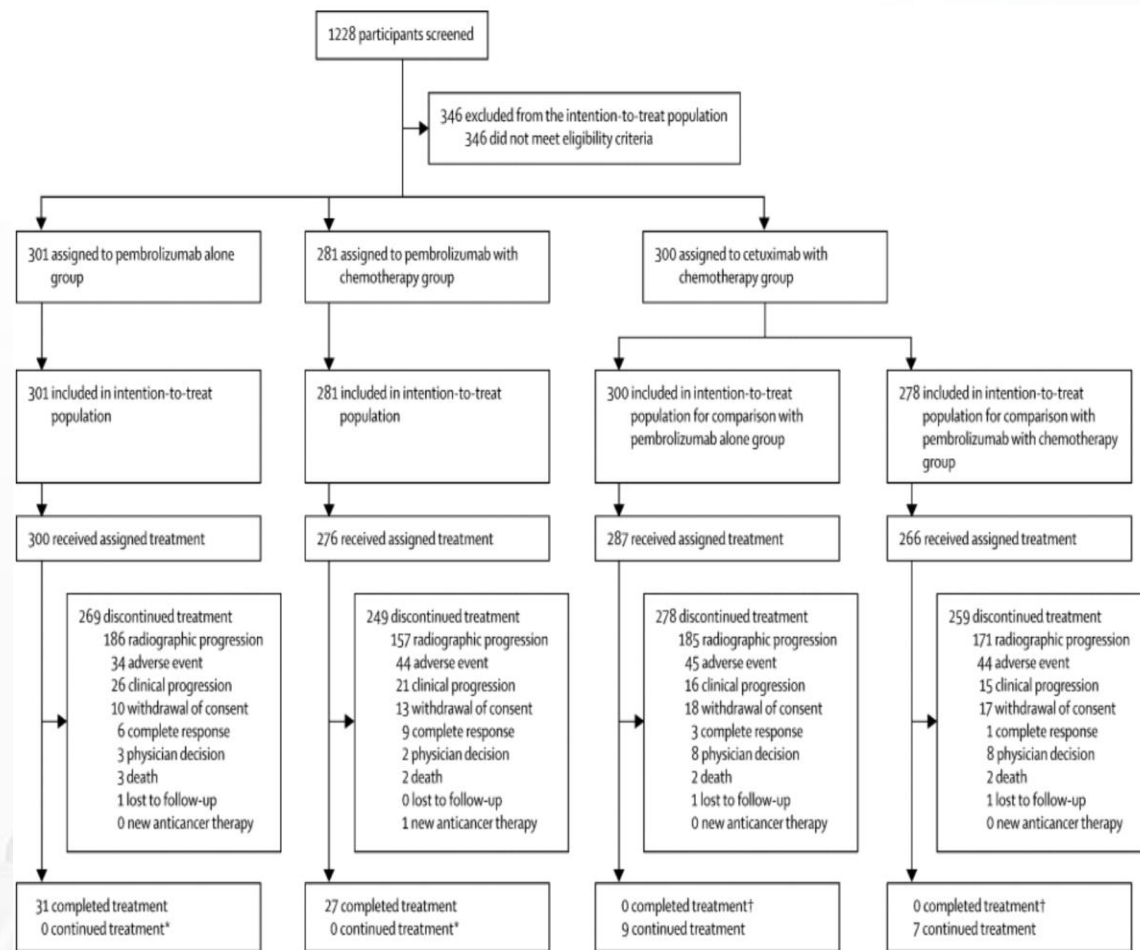
# KEYNOTE 040: PEMBROLIZUMAB IN PLATINUM EXPOSED PATIENTS



Cohen EEW, Lancet 2019



# KEYNOTE 048: PREVIOUSLY UNTREATED RM HNSCC



Burtness B, Lancet 2019

# FACTORS THAT AFFECT TREATMENT CHOICE

## **PD-L1: CPS interpretation (with limitations)**

1. CPS  $\geq 20$  – more likely to use single agent PD-1 inhibitor
2. CPS 1–19- less likely to use single agent PD-1 inhibitor
3. CPS  $< 1$ - not recommended to use single agent PD-1 inhibitor

## **Clinical considerations affecting the use of cytotoxic therapy or cytoreductive therapy + PD-1 inhibitors**

1. Symptomatic disease; tumor burden
2. Rapid progression
3. Organ compromise
4. ECOG performance status
5. HPV status
6. Frailty



## CASE PRESENTATION

A 60-year-old male with HPV related OPSCC treated with cisplatin and radiation 2 years ago presents with recurrent disease and multiple liver lesions and lung metastatic lesions. His tumor has a CPS score of 60. He is feeling more tired than usual yet is active with a PS of 1

At the time of his presentation, he was not interested in a clinical trial participation. How would this patient be treated in my clinic ?

- 1- Single agent Pembrolizumab
- 2- Platinum /5-FU and Pembrolizumab
- 3- Paclitaxel Carboplatin and Pembrolizumab

# BEYOND PD1 INHIBITORS

VEGF modulation + PD-1 inhibitors, (lenvatinib, cabozantinib, zanzalintinib and others..)

*(despite the encouraging clinical activity, there is no practice changing indications)*

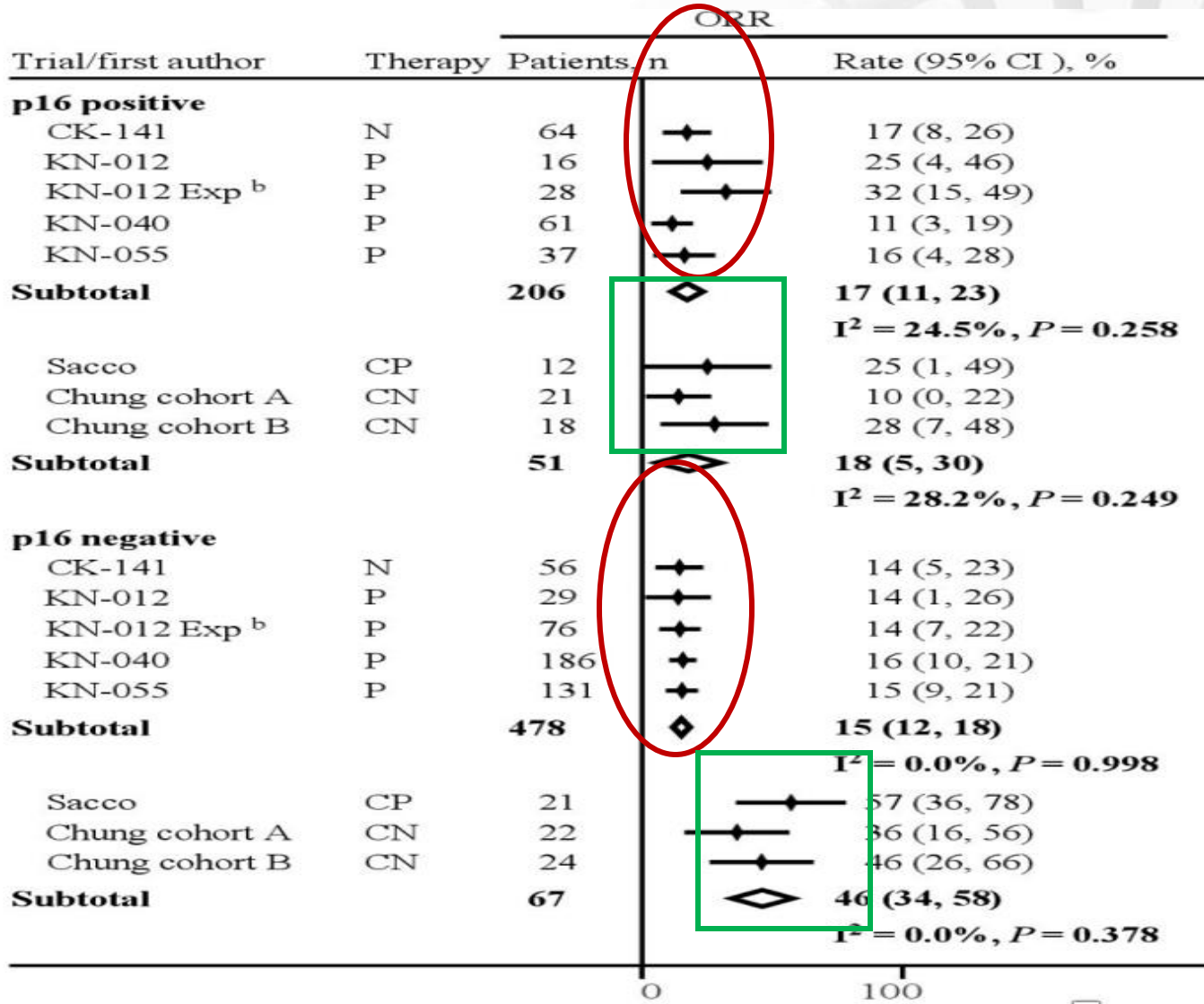
Modulators of EGFR resistance (predominantly in HPV unrelated disease)

Novel checkpoints, TIGIT, LAG-3, TIM-3, CTLA-4 combinations

Cell therapy, Tumor-infiltrating lymphocytes, CAR-T, TCR therapies

Vaccines, HPV therapeutic vaccines (predominantly HPV related)

# ORR and OS in HPV pos vs neg HNSCC on different trials using PD-1 inhibitors +/- CETUXIMAB



PD-1  
Inhibitors  
HPV positive

PD-1 Inh +  
Cetux  
HPV positive

PD-1  
Inhibitors  
HPV negative

PD-1 Inh +  
Cetux  
HPV negative



# AMIVANTAMAB - ORIGAMI-4 STUDY DESIGN

## Eligibility Criteria for Cohort 1

- Recurrent/metastatic (R/M) head and neck squamous cell carcinoma
- No prior anti-EGFR therapy
- ECOG PS score: 0 or 1
- p16 positive oropharyngeal carcinoma was excluded

**Subcutaneous amivantamab is administered at 2400 mg (or 3360 mg if  $\geq 80$  kg) Q3W<sup>a</sup>**

**Cohort 1: Amivantamab monotherapy<sup>b</sup>**  
Post-PD-(L)1 inhibitor and platinum-based chemotherapy<sup>c</sup>

**Cohort 2: Amivantamab plus pembrolizumab<sup>b</sup>**  
Treatment naïve in the R/M setting

**Cohort 3: Amivantamab plus paclitaxel<sup>b</sup>**  
Post-PD-(L)1 inhibitor

**Cohort 4: Amivantamab monotherapy<sup>d</sup>**  
Post-PD-(L)1 inhibitor and platinum-based chemotherapy<sup>c</sup>

**Cohort 5: Amivantamab plus pembrolizumab with carboplatin<sup>d</sup>**  
Treatment naïve in the R/M setting

**Cohort 6: Amivantamab plus pembrolizumab<sup>b</sup>**  
Treatment naïve in the locally advanced, perioperative setting

## Endpoints

- Objective response rate (primary)
- Duration of response
- Clinical benefit rate<sup>e</sup>
- Progression-free survival
- Overall survival
- Safety

*Responses were assessed by the investigator per RECIST v1.1 and confirmed via BICR*

*Treatment beyond progression was permitted for continued clinical benefit per investigator*

- A sample size of 80 response-evaluable participants would provide >99% power to reject the null hypothesis (ORR  $\leq 10\%$ ) assuming an ORR of 30% with a 2-sided alpha of 5%<sup>f</sup>

OrigAMI-4 (ClinicalTrials.gov Identifier: NCT06385080). Note: All cohorts of OrigAMI-4 will utilize the subcutaneous formulation of amivantamab, which is coformulated with recombinant human hyaluronidase PH20 and manually injected in the abdomen.

<sup>a</sup>Each cycle is 21 days (3 weeks); Cycle 1: 1600 mg (or 2240 mg if  $\geq 80$  kg) on Day 1, 2400 mg (or 3360 mg if  $\geq 80$  kg) on Day 8 and Day 15; Cycle 2 (and thereafter): 2400 mg (or 3360 mg if  $\geq 80$  kg) on Day 1. <sup>b</sup>Participants with HPV+ oropharyngeal squamous cell carcinoma were excluded. <sup>c</sup>Eligible participants must have received an anti-PD-(L)1 and platinum-based chemotherapy in combination or as separate lines of therapy for R/M disease. A participant could have received 1 or both treatments in the locally advanced disease if progression was within 6 months. <sup>d</sup>Participants with HPV+ oropharyngeal squamous cell carcinoma were included. <sup>e</sup>Clinical benefit rate was defined as percentage of confirmed responders or durable stable disease (at the second disease assessment). <sup>f</sup>The INTERLINK-1 data, which showed an ORR of 24% with cetuximab, were not available at the time of protocol/study initiation.<sup>1</sup>

1. Fayette J, et al. Clin Cancer Res. 2025;31(13):2617–2627.

# BICR-ASSESSED ORR AND BEST RESPONSE

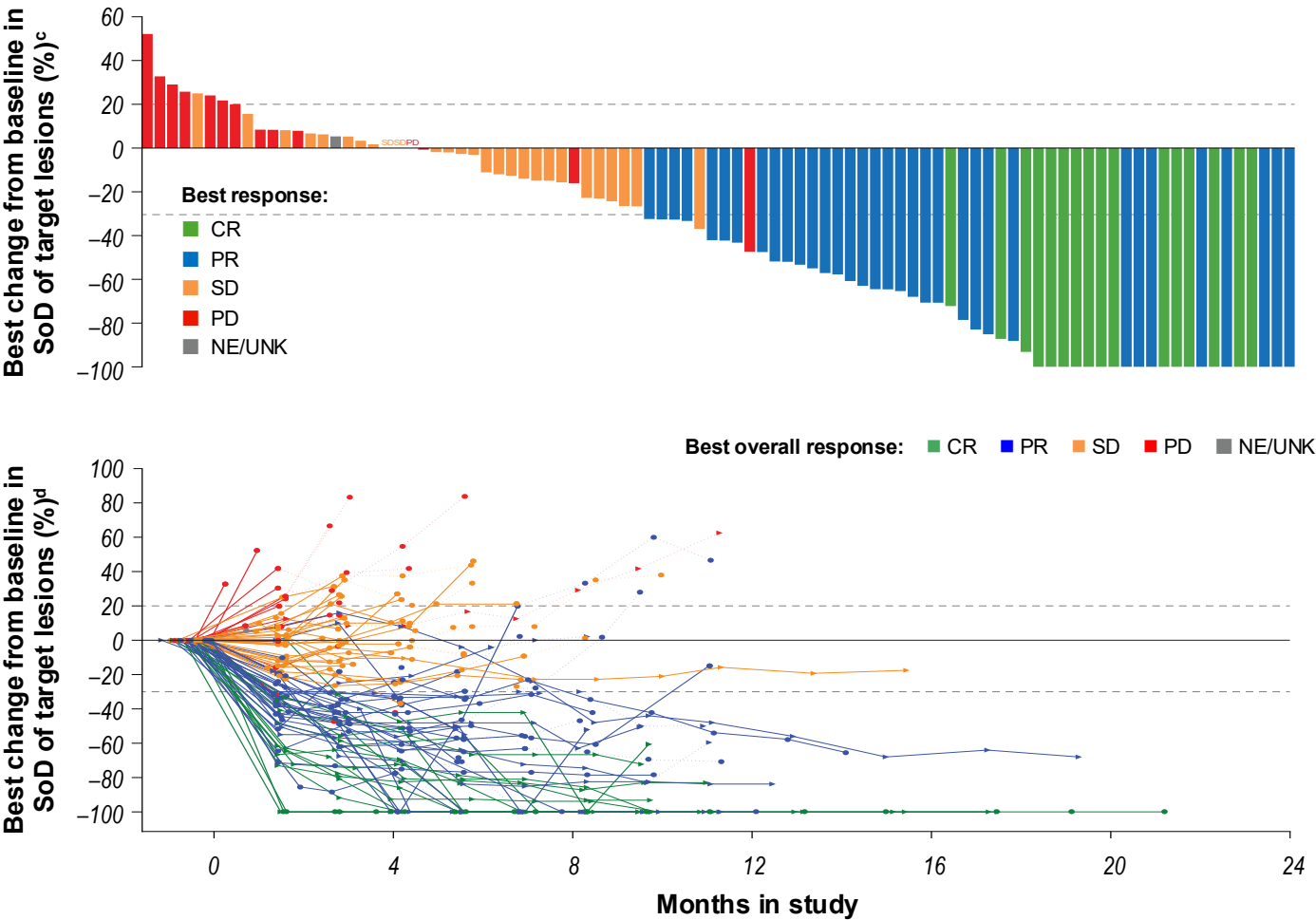
| BICR-assessed response             | N=102                 |
|------------------------------------|-----------------------|
| Confirmed ORR                      | 42% (95% CI, 32–52)   |
| Best response, n (%)               |                       |
| CR                                 | 15 (15)               |
| PR                                 | 28 (27)               |
| SD <sup>a</sup>                    | 36 (35)               |
| PD                                 | 16 (16)               |
| NE                                 | 7 (7)                 |
| Time to first response, weeks      | 6.6 (range, 5.6–36.9) |
| Clinical benefit rate <sup>b</sup> | 63% (95% CI, 53–72)   |

Investigator-assessed ORR (47%; 95% CI, 37–57) was consistent with the BICR results

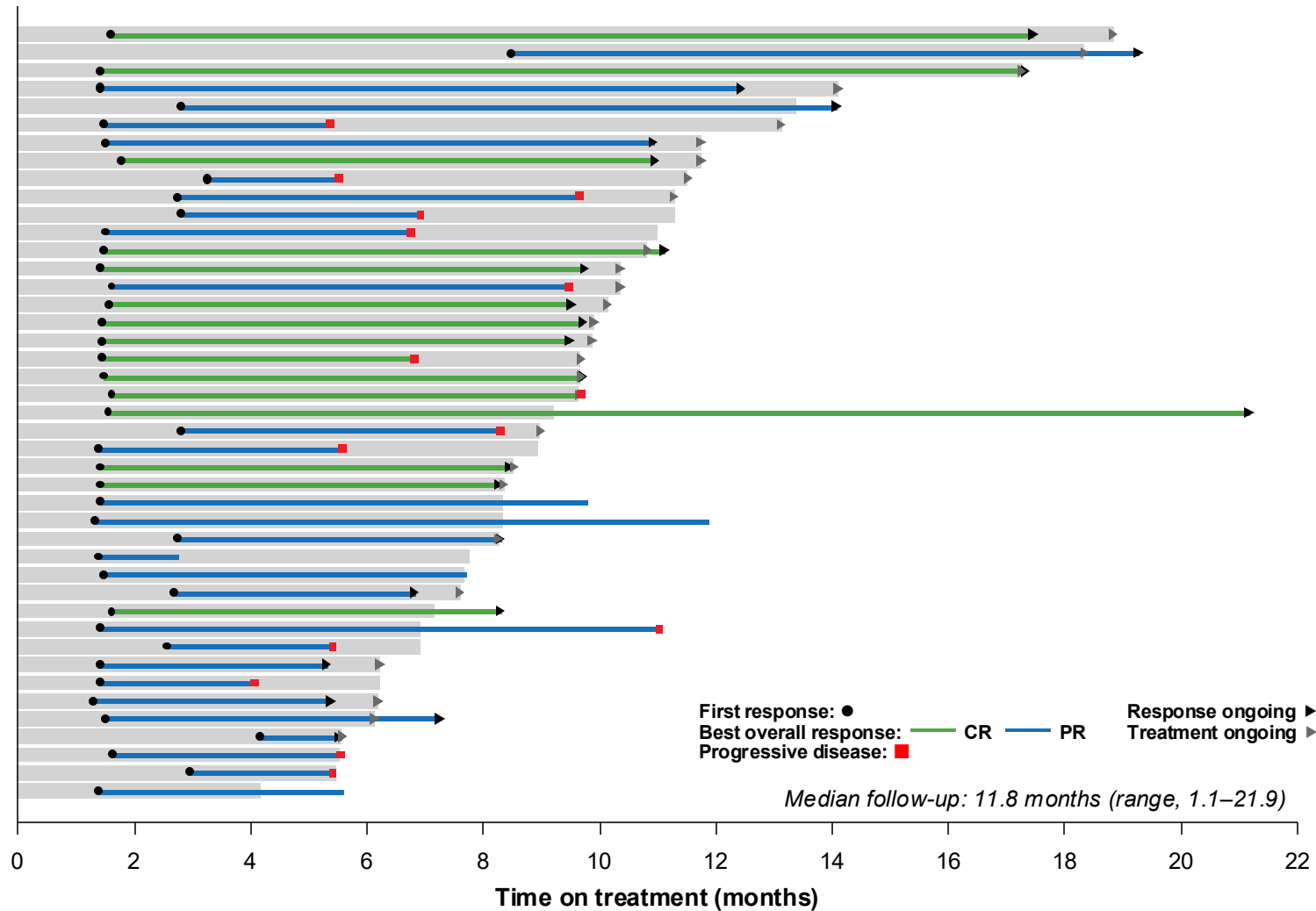
- Among participants with ≥1 post-baseline disease assessment, 84% experienced tumor shrinkage of target lesions

<sup>a</sup>Includes non-CR/non-PD with only non-target lesions at baseline and no evidence of disease with no target or non-target lesions at baseline. <sup>b</sup>Defined as percentage of participants achieving a response or durable SD (at second disease assessment). <sup>c</sup>Ten participants (NE/UNK: n=6; PD: n=2; non-CR/PD: n=1; no evidence of disease: n=1) without postbaseline tumor assessments were not shown; all participants were included in the ORR analysis. <sup>d</sup>Excludes participants without a postbaseline tumor assessment. Triangle indicates ongoing treatment; circle indicates completed/discontinued treatment; solid line indicates before PD; dotted line indicates after PD.

## BICR-Assessed Best Response



# DURATION OF RESPONSE



Median DoR was not reached  
(95% CI, 6.9–NR) in the 43  
confirmed responders

- 56% of responders had a response duration  $\geq 6$  months
- 63% of responses are ongoing

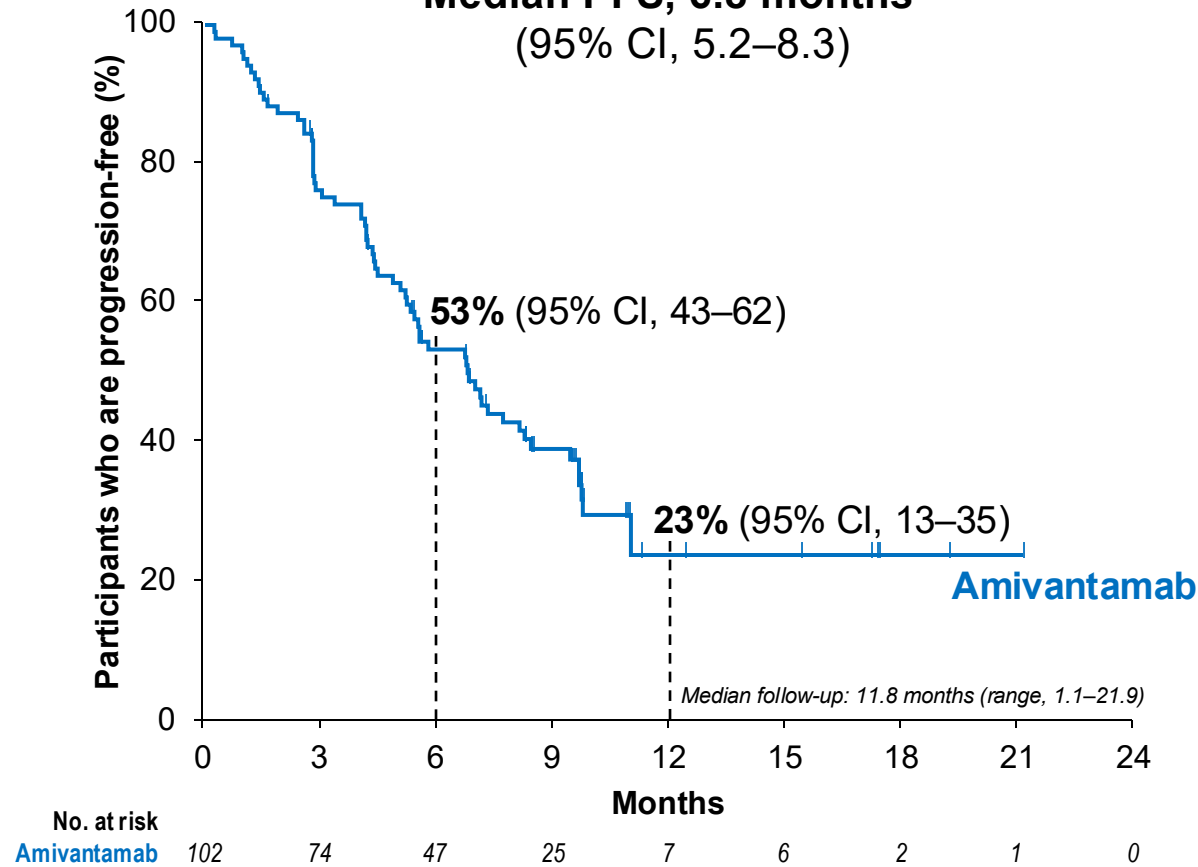
Among the 15 CRs, 13 (87%)  
are ongoing



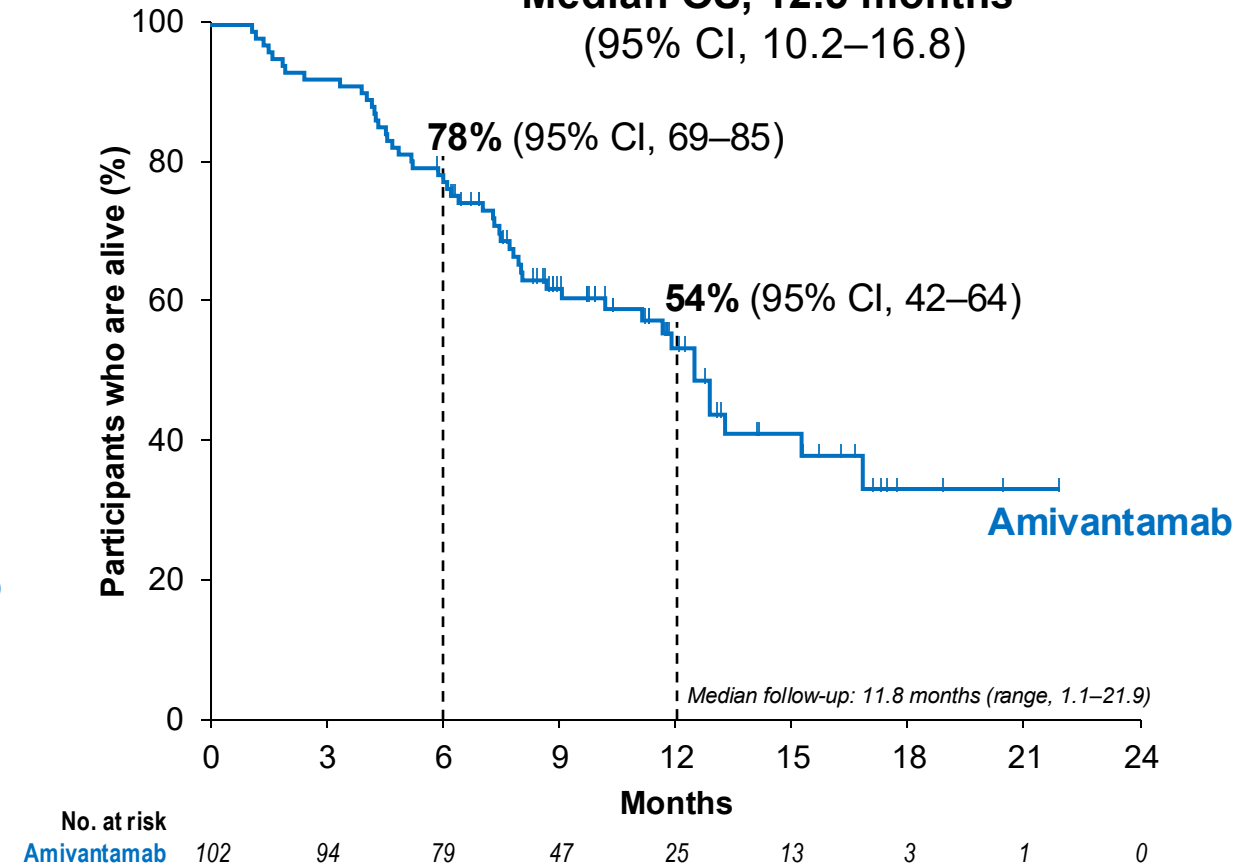
# PFS AND OS

54% of participants were alive at 1 year

**Median PFS, 6.8 months<sup>a</sup>**  
(95% CI, 5.2–8.3)



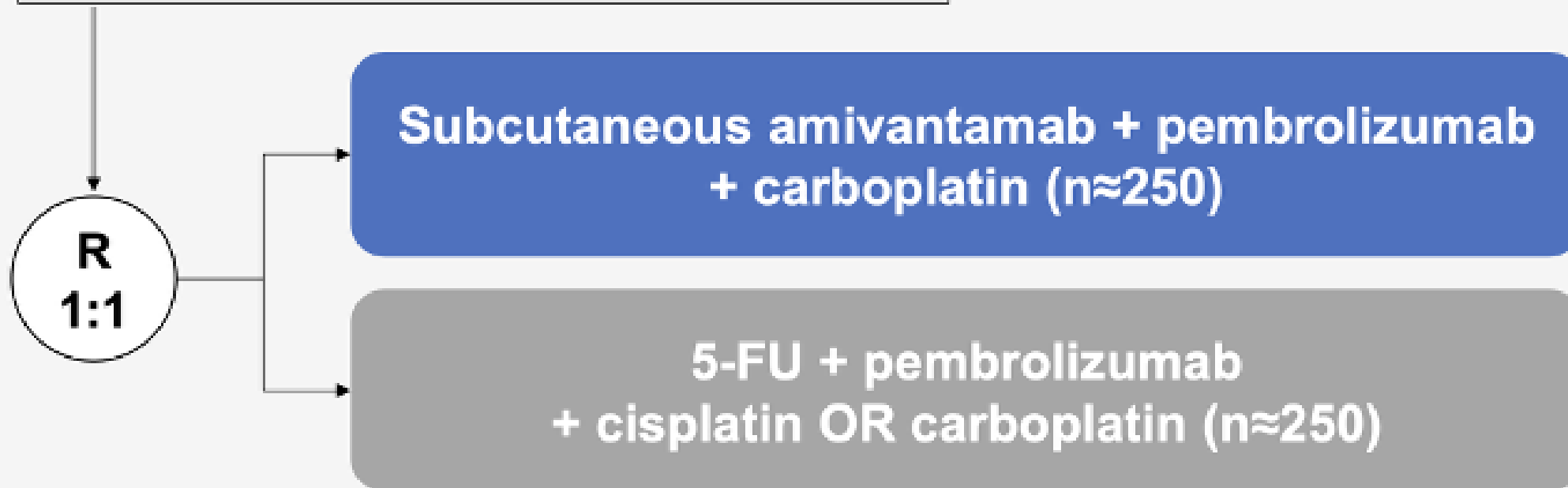
**Median OS, 12.5 months**  
(95% CI, 10.2–16.8)



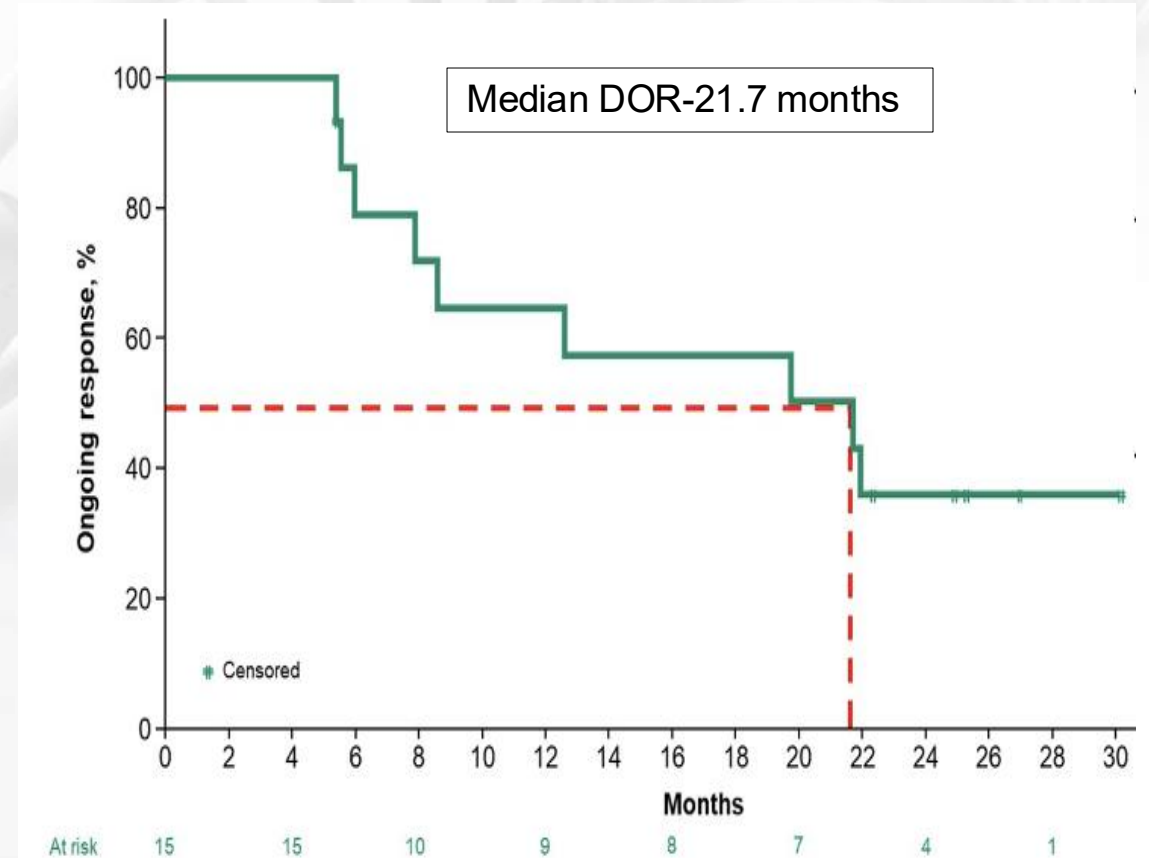
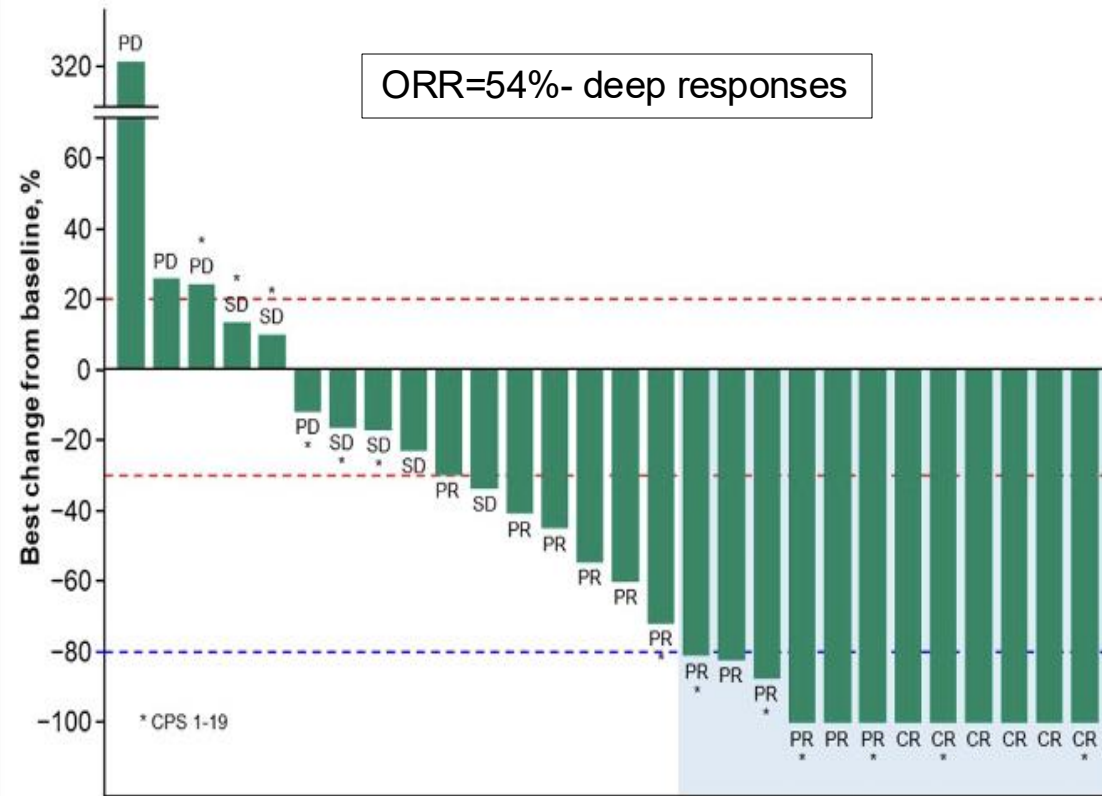
<sup>a</sup>Assessed by investigator.

## ORIGAMI -5: PHASE III TRIAL IN HPV- UNRELATED R/M HNSCC

Previously untreated, HPV-unrelated,  
recurrent/metastatic head and neck  
squamous cell carcinoma<sup>a</sup>

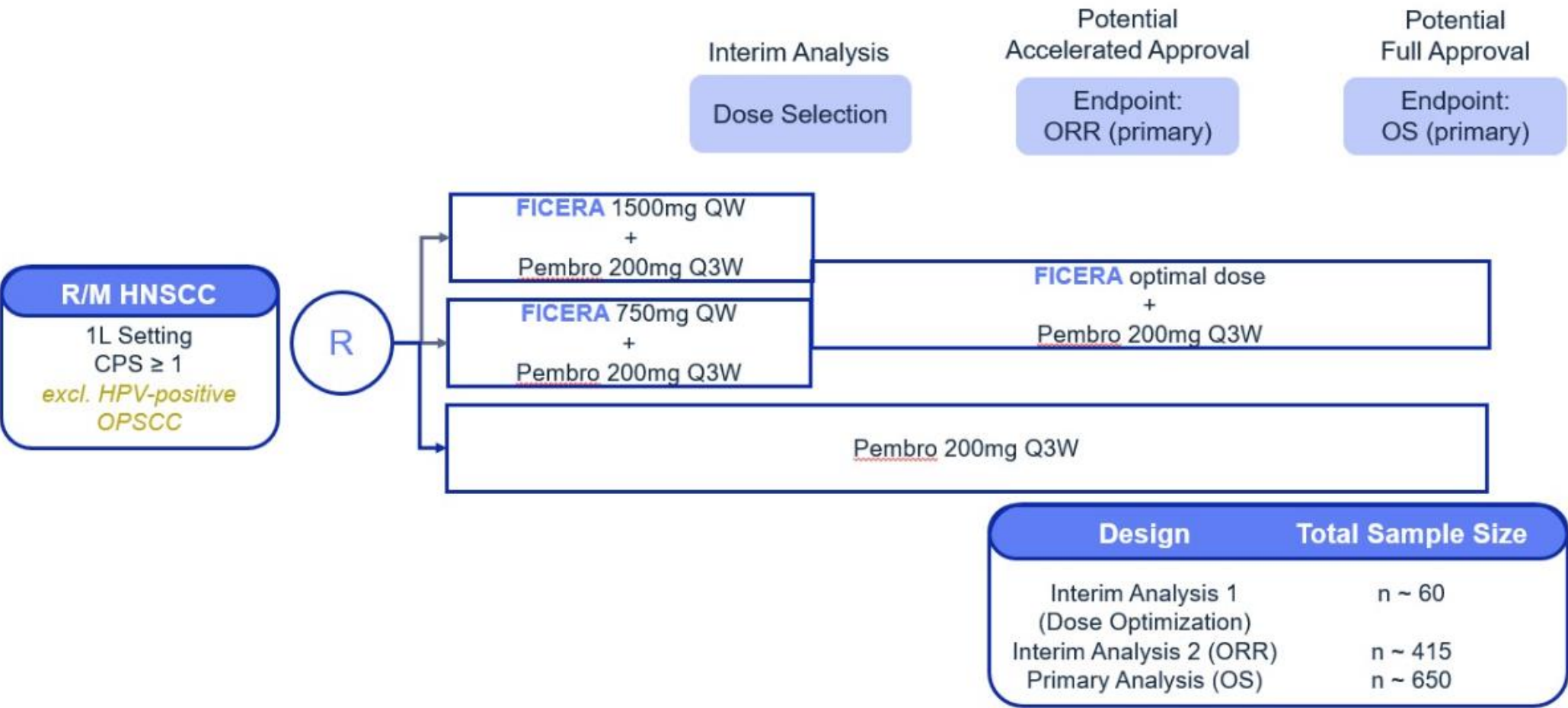


# BCA101(FICERAFUSP ALFA) : A BISPECIFIC ANTIBODY TARGETING EGFR AND TGFB<sup>1</sup>



Chung, C ASCO 2025

# FORTIFI-HN01: PHASE 2/3 TRIAL OF FICERAFUSP ALFA + PEMBEO IN 1L R/M HNSCC



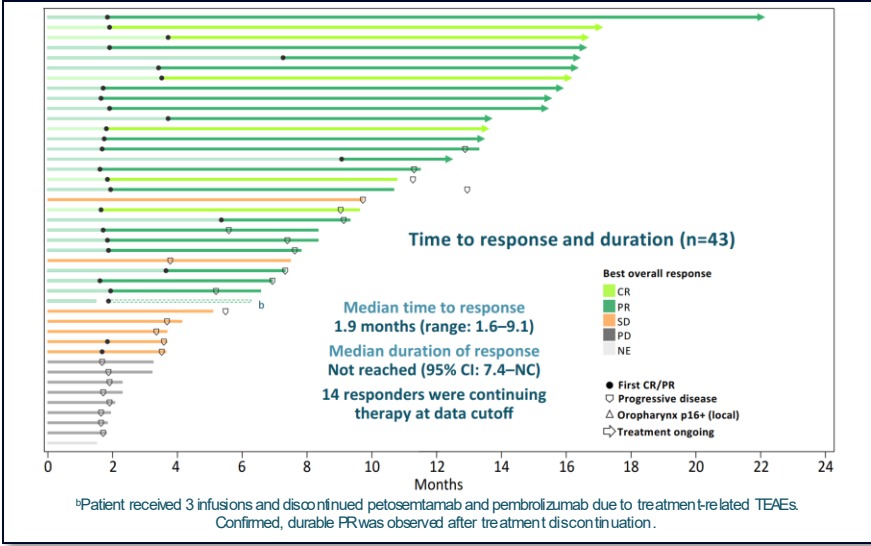
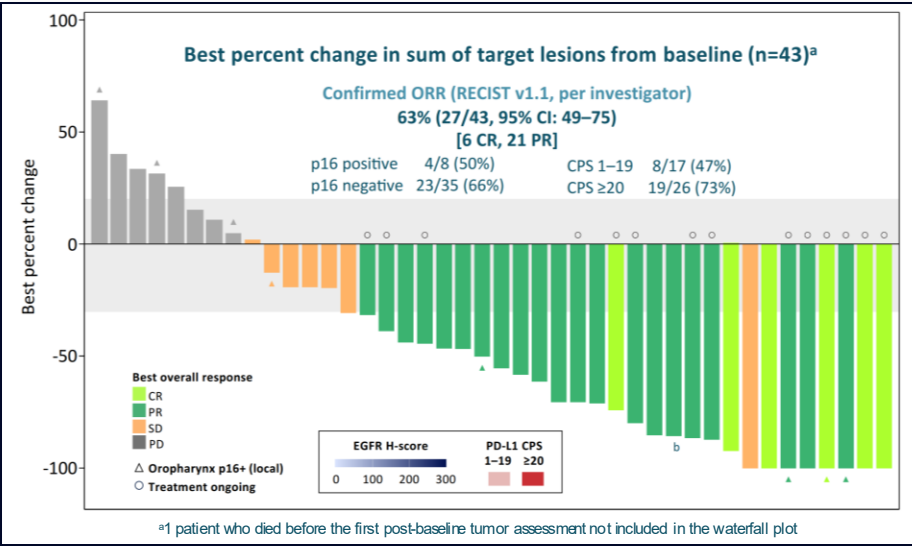
Bicare Therapeutics,  
<https://www.sec.gov/Archives/edgar/data/2023658/000202365825000012/bcax-20241231.htm>



# PETOSEMAMAB + PEMBROLIZUMAB PHASE 2 TRIAL

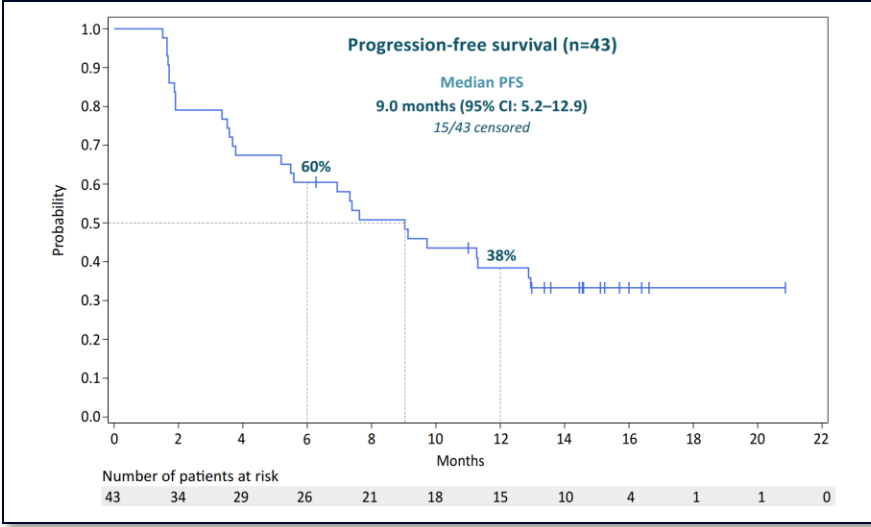
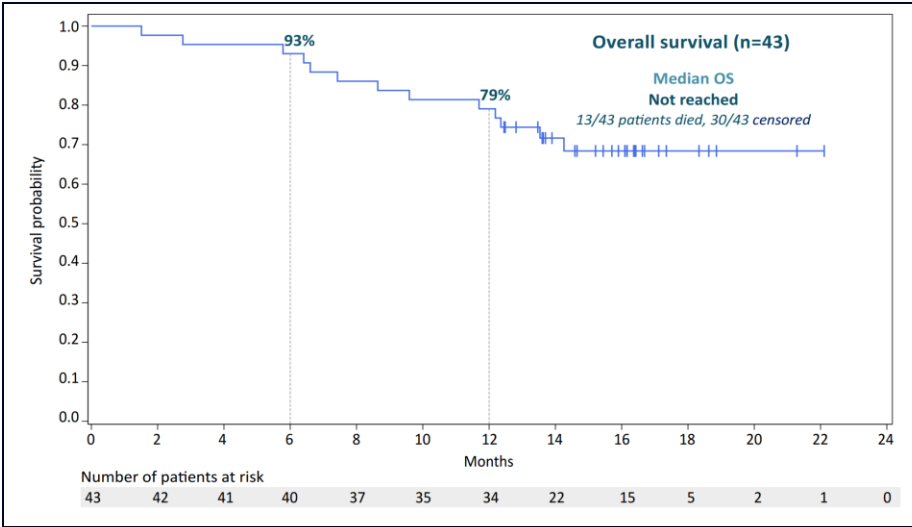
## Overall Clinical Efficacy

|      |                  |
|------|------------------|
| ORR  | 63%              |
| mPFS | 9 months         |
| OS   | 79% at 12 months |
| mOS  | Not reached      |



## KN-048 Benchmark<sup>2</sup> Pembro Monotherapy (PD-L1 CPS ≥1)

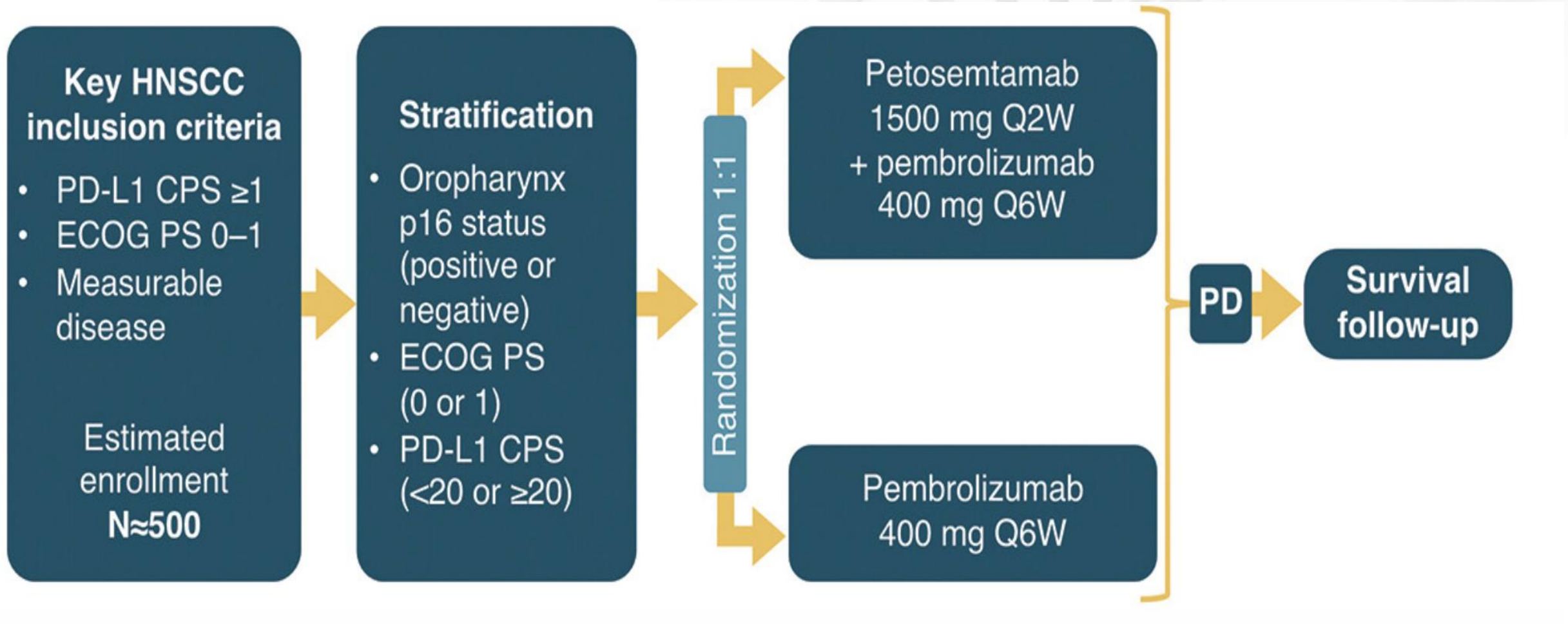
|      |                  |
|------|------------------|
| ORR  | 19%              |
| mPFS | 3.2 months       |
| OS   | 51% at 12 months |
| mOS  | 12.3 months      |



CI: confidence interval; CR: complete response; NA: not available; NC: not calculable; NE: not evaluable; OS: overall survival; PFS: progression-free survival; PR: partial response; SD: stable disease.

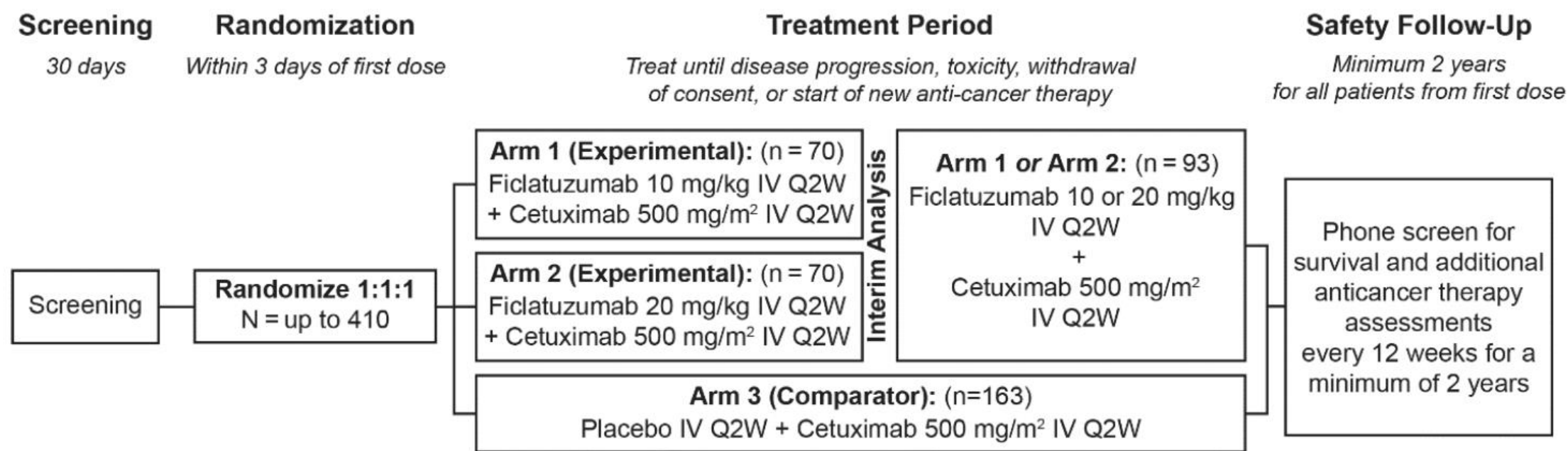
1. Van Herpen C et al. Petosemtamab (MCLA-158) with pembrolizumab as first-line (1L) treatment of PD-L1+ recurrent/metastatic (r/m) head and neck squamous cell carcinoma (HNSCC): Phase 2 study. ASCO 2025;  
2. Harrington KJ, et al. *J Clin Oncol* 41, 790-802(2023);

# LIGER-HN PHASE III TRIAL OF PETOSEMTAMAB + PEMBROLIZUMAB VS PEMBROLIZUMAB IN FIRST LINE RMHNSCC



Machiels JP, Future Onco 2025

# PHASE 3 STUDY OF FICLATUZUMAB IN COMBINATION WITH CETUXIMAB IN RECURRENT OR METASTATIC (R/M) HPV-NEGATIVE HEAD AND NECK SQUAMOUS CELL CARCINOMA (FIERCE-HN)



**Patient Population:**  
R/M HNSCC (HPV-neg)  
Prior ICI and platinum-chemo required (or intolerant to treatment)

**Primary Endpoint:** OS  
**Secondary Endpoint:** PFS, ORR, DOR, DCR, Safety, Pk  
**Exploratory Endpoints:** Pd, PRO

**Disease Response Assessments:**  
Day 1 of Cycle 3 (C3), C5, C7, C9, C11, C14, C17, C20, etc. Then every 12 weeks (3 cycles) for years 2 and 3.

**Interim Analysis:** Arm 1 vs. Arm 2

# EVOPARCEPT (blocks CD-47 signal) + PEMBRO vs Pembro

| Key Eligibility Criteria                            |  |
|-----------------------------------------------------|--|
| • Metastatic or unresectable, recurrent (R/M) HNSCC |  |
| • PD-L1 CPS $\geq 1$                                |  |
| • No prior systemic therapy for advanced disease    |  |
| • Measurable disease                                |  |
| • $\geq 18$ years old                               |  |
| • ECOG PS 0-1                                       |  |

## Minimization Factors

- Geography: Asia Pacific, Europe, North America
- PD-L1 CPS: CPS 1-19, CPS  $\geq 20$
- HPV (p16) Status: positive, negative, unknown
- Tobacco Habits: Current, Past, Non-user
- ECOG PS: 0, 1

Safety Lead-In  
N=8

Evorpaccept +  
Pembrolizumab

N=121

R  
2:1

N=60

Evorpaccept  
45 mg/kg IV  
+  
Pembrolizumab  
200 mg IV Q3W<sup>†</sup>

vs.

Pembrolizumab  
200 mg IV Q3W<sup>†</sup>

<sup>†</sup>max of 35 cycles  
(up to 24 months)

## Primary Endpoints

- Objective response rate (BICR)

## Primary Analysis

- Compare ORR to historical control ORR 20%

## Key Secondary Endpoints

- ORR, DCR, DOR, PFS, TTP, OS, 12-month OS rate, Safety

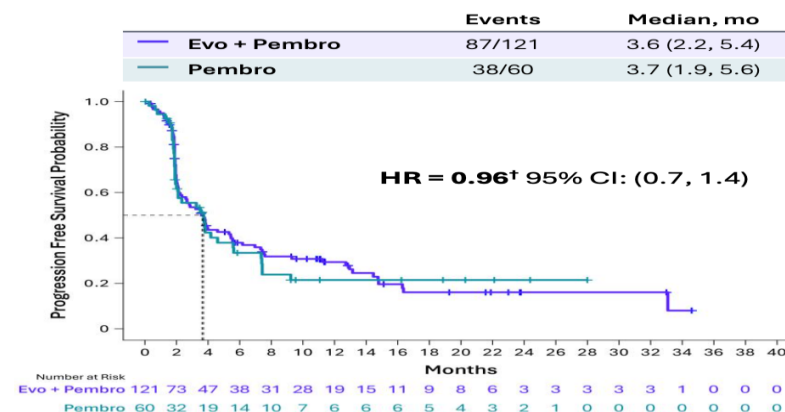
## Exploratory Endpoints

- Preplanned biomarker analysis of CD47 vs efficacy endpoints

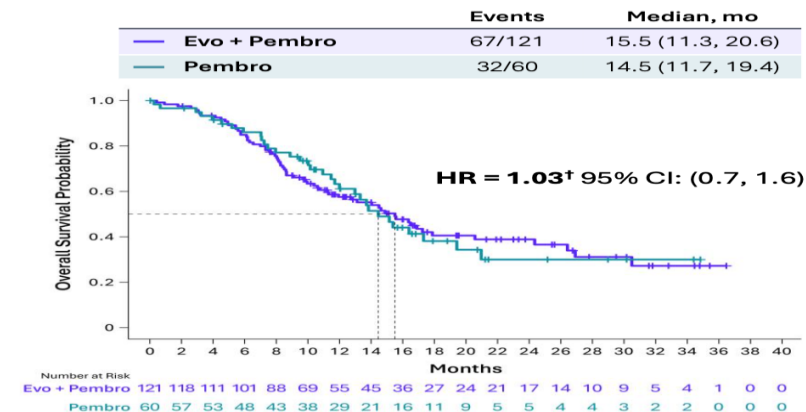
## ORR and DOR by BICR

|                                | Evorpaccept +<br>Pembrolizumab<br>(n=121) | Pembrolizumab<br>(n=60) |
|--------------------------------|-------------------------------------------|-------------------------|
| <b>ORR, % (95% CI)</b>         | 26.4 (18.8, 35.2)                         | 18.3 (9.5, 30.4)        |
| CR, %                          | 15.7                                      | 13.3                    |
| PR, %                          | 10.7                                      | 5.0                     |
| SD, %                          | 21.5                                      | 26.7                    |
| PD, %                          | 39.7                                      | 36.7                    |
| Other*, %                      | 12.4                                      | 18.3                    |
| <b>Median DOR, mo (95% CI)</b> | 31.2, (12.6, NE)                          | NR, (5.7, NE)           |
| <b>Median Follow Up, mo</b>    | 19.5                                      | 17.9                    |

## Progression-Free Survival by BICR



## Overall Survival



- ORR for evorpaccept + pembrolizumab (26.4%) was not statistically different from ORR for historical control<sup>1</sup> (20%; 1-sided p = 0.038 vs.  $\alpha$  = 0.025)

- No evidence of difference in ORR, PFS, or OS between treatment arms

\*includes patients without measurable disease at baseline that did not meet criteria for CR or PD, not evaluable, or had no post-baseline assessment available; <sup>†</sup>HR (Evo + Pembro vs. Pembro) is from a stratified Cox proportional hazards model stratified by PD-L1 CPS per IRT. BICR – Blinded independent central review; CR – Complete response; DOR – Duration of response; Evo – Evorpaccept; mo – Months; NR – Not reached; NE – not estimable; ORR – Objective response rate; OS – Overall survival; Pembro – Pembrolizumab; PD – Progressive disease; PFS – Progression free survival; PR – Partial response; SD – Stable disease.

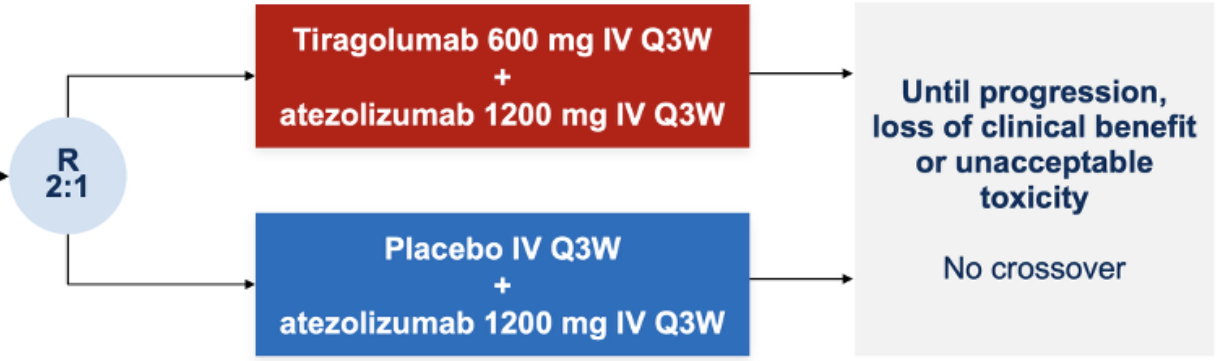
Harrington K, ESMO 2025



# SKYSCRAPER 9: TIRAGOLUMAB (ANTI-TIGIT) + ATEZOLIZUMAB IN RM HNSCC

### Key eligibility criteria

- 1L R/M SCCHN (oral cavity, larynx, hypopharynx, HPV-negative oropharynx, and HPV-positive oropharynx)
- PD-L1+ (TAP  $\geq 5\%$ ) by central SP263 assay
- ECOG PS 0 or 1



### Stratification factors

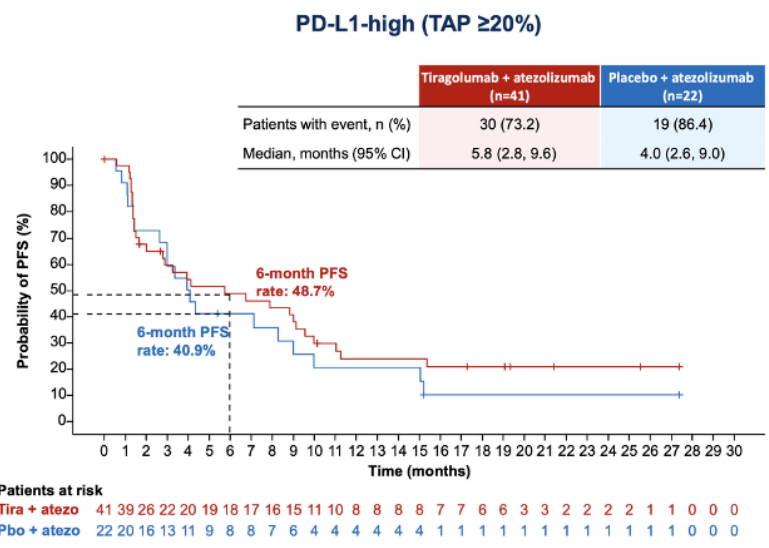
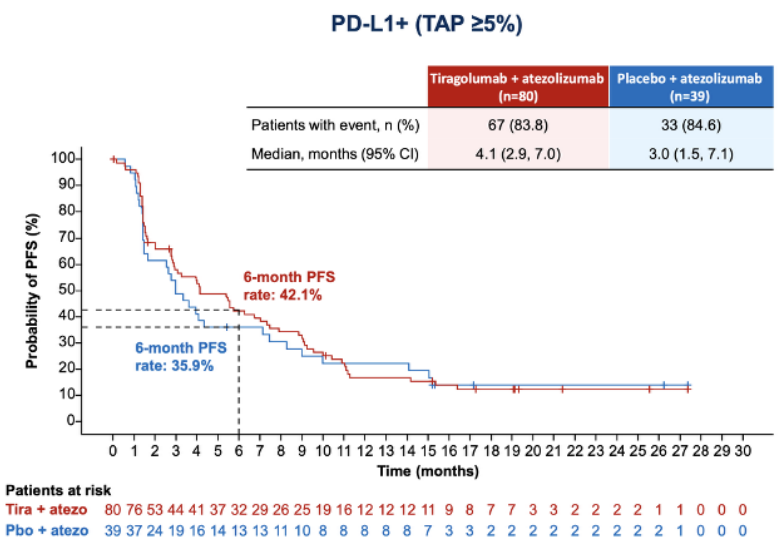
- HPV-positive oropharynx cancer (yes vs no)
- PD-L1 status (low [TAP 5–19%] vs high [TAP  $\geq 20\%$ ])

### Primary endpoint

- Confirmed ORR assessed by investigator

### Other endpoints

- DOR, PFS, OS, safety



Psyri A , ESMO 2025

# PEMDA-HN TRIAL: RANDOMIZED, OPEN LABEL, PHASE 2 STUDY OF DANVATIRSEN AND PEMBROLIZUMAB IN 1<sup>ST</sup> LINE HNSCC

## PATIENT SELECTION:

- R/M 1<sup>st</sup> Line HNSCC (excluding nasopharyngeal)
- CPS  $\geq 1$
- PD-1/PD-L1 naive
- Measurable disease
- Available Archived Tissue or Biopsy

## PRIMARY ENDPOINT:

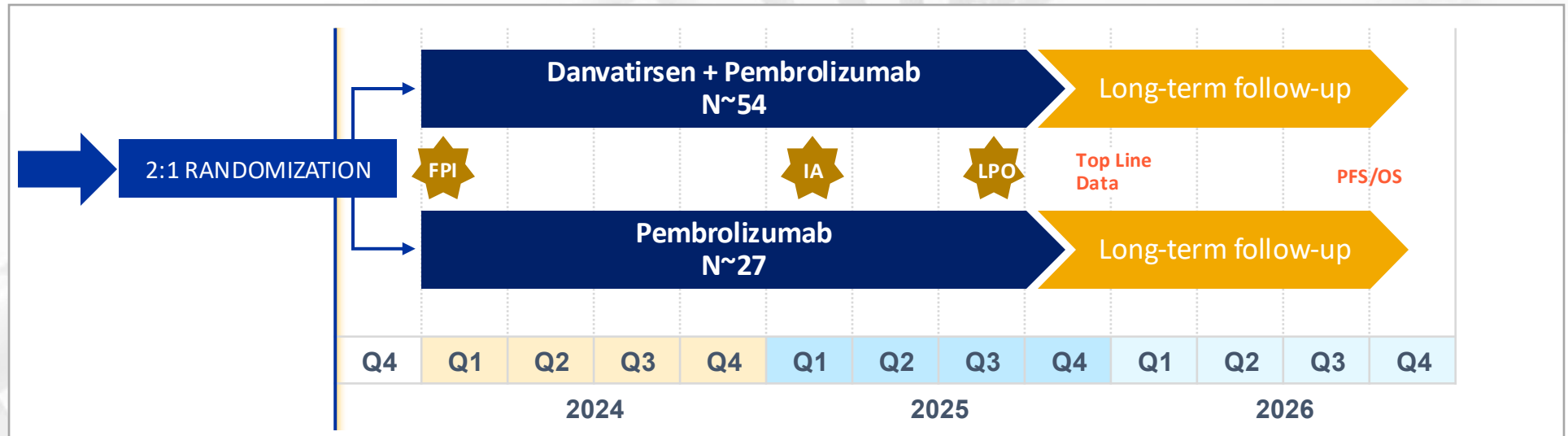
- ORR per RECIST 1.1 determined by PI

## SECONDARY ENDPOINTS:

1. Safety
2. Duration of response
3. CR rate
4. ORR and response duration in CPS  $\geq 20$  (& CPS  $\geq 50$ )
5. PFS
6. OS
7. PK

## EXPLORATORY ENDPOINT:

1. Pharmacodynamic activity of danvatirsen in pre- and on-treatment tumor specimen
2. Correlation between clinical activity and (HPV) and other biomarkers



Sites: 32 | Countries: US, Korea, UK

## DESIGN OPERATING CHARACTERISTICS (N=81 WITH INTERIM AT N=39)

- 83% Power (5% 1-sided alpha) to demonstrate an increase of 28% in ORR in Combo vs Mono (15% to 43%)
- In the Combo arm, the 95% CI around a 43% ORR is (30%, 56%)

Saba et al, in press

# OBJECTIVE RESPONSE RATE

## ORR CPS $\geq 1$ (N=56pts)

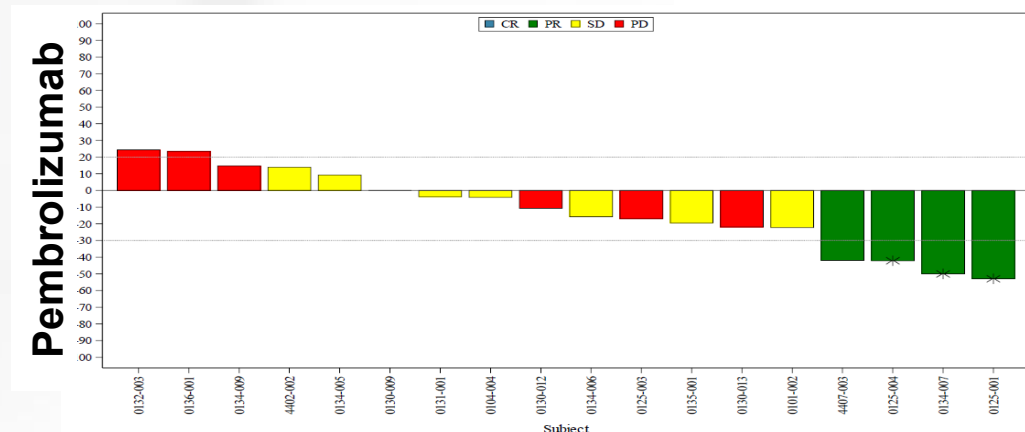
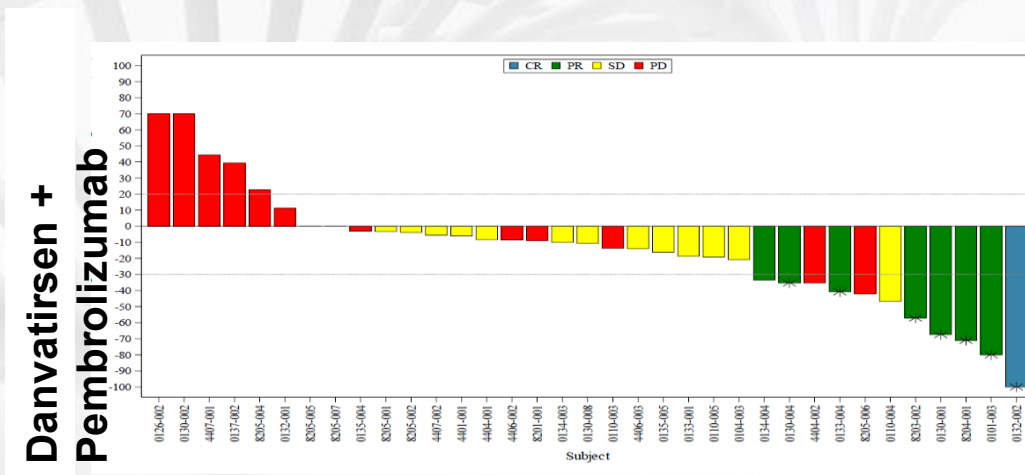
| Tx Arm         | N  | Response Confirmed           |
|----------------|----|------------------------------|
| Danva + Pembro | 45 | 7 (15.6%)<br>90% CI 7.5-27.2 |
| Pembro         | 21 | 3 (14.3%)<br>90% CI 4-32.9   |

## ORR CPS $\geq 20$ (N=37pts)

| Tx Arm         | N  | Response Confirmed           |
|----------------|----|------------------------------|
| Danva + Pembro | 27 | 6 (18.2%)<br>90% CI 8.2-32.8 |
| Pembro         | 10 | 3 (21.4%)<br>90% CI 6.1-46.6 |

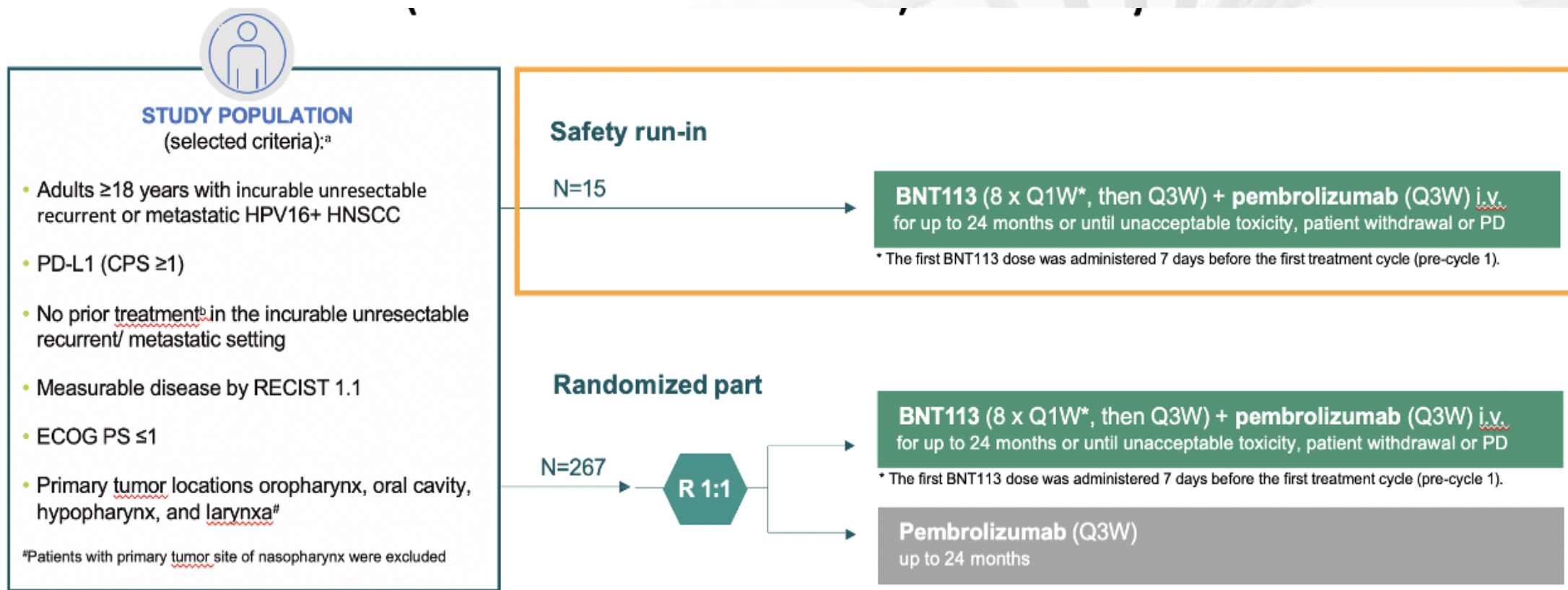
**Median PFS:** Danvatirsen + Pembrolizumab: 3.52 mo (95% CI , 1.48-6.83) vs Pembrolizumab: 2.92 mo (95% CI 1.41-)

**Median Duration of treatment:** Danva + Pembro 2.98 mo (0.03-9.36) vs 2.83 mo (0.03-10.38)



Saba et al, in press

# RANDOMIZED PHASE III TRIAL OF BNT 113 + PEMBROLIZUMAB VS PEMBROLIZUMAB IN 1<sup>ST</sup> LINE HPV RELATED RM HNSCC



Nabil F. Saba, et al., Exploratory analysis of antitumor activity of BNT113 in HNSCC (NCT04534205), ESMO 2024, Poster 877P

CPS = combined positive score; ECOG = Eastern Cooperative Oncology Group; INV = investigator assessed; iv = intravenously; HNSCC = head and neck squamous cell carcinoma; HPV16 = human papilloma virus 16; PD = progressive disease; PD-L1 = programmed cell death protein ligand 1; PFS = progression free survival; QxW = every x weeks; RECIST = Response Evaluation Criteria In Solid Tumors

BNT113 is an investigational product and is not approved anywhere globally; its safety and efficacy have not been established. There is no guarantee that it will become commercially available

\* Phase II trial of BNT113 in combination with pembrolizumab vs. pembrolizumab monotherapy as first-line treatment in Incurable unresectable recurrent or metastatic HNSCC HPV16+, PD-L1+ (CPS ≥1) HNSCC (NCT04534205)

Saba NF, et al ESMO 2023



# Phase II study of Fianlimab and Cemiplimab in HPV positive and Negative HNSCC



## Patients

N=120

### Patient population

- 1L R/M HNSCC
- ECOG PS of 0 or 1
- Anti-PD-1 therapy naïve
- PD-L1 CPS of  $\geq 1$

### Stratification

- PD-L1 CPS of 1–19 versus  $\geq 20$  (within each cohort)

Key inclusion and exclusion criteria are presented in **Tables 1 and 2**, respectively

**Cohort 1**  
HPV-positive  
R/M HNSCC  
(n=60)

R  
1:1

Fianlimab IV Q3W + cemiplimab 350 mg IV Q3W  
for up to 2 years/36 cycles

Placebo IV Q3W + cemiplimab 350 mg IV Q3W  
for up to 2 years/36 cycles

**Cohort 2**  
HPV-negative  
R/M HNSCC  
(n=60)

R  
1:1

Fianlimab IV Q3W + cemiplimab 350 mg IV Q3W  
for up to 2 years/36 cycles

Placebo IV Q3W + cemiplimab 350 mg IV Q3W  
for up to 2 years/36 cycles



## Endpoints

### Primary endpoint

- ORR per RECIST v1.1\*

### Secondary endpoints

- PFS
- DCR
- DOR
- Safety
- Pharmacokinetics

## CASE PRESENTATION – CONTINUED

Following chemo-immunotherapy an excellent response was achieved with a durable CR for 2 years.

Unfortunately, new liver lesions that were confirmed by biopsy appeared on surveillance scans and were consistent with recurrent HPV related disease.

What systemic options are available ?

Need novel agents in HPV related disease...

(approved systemic options are: Taxotere, MTX, Cetuximab).

# CONCLUSIONS

1. Immunotherapy has fundamentally changed the treatment landscape of recurrent and metastatic head and neck cancer.
2. Despite this, only a subset of patients derives durable benefit and robust predictive markers beyond PDL1 are lacking.
3. Earlier integration of immunotherapy into curative-intent treatment paradigms represents a major area of ongoing investigation.
4. Novel approaches—including cellular therapies, therapeutic vaccines, and next-generation immune modulators—aim to overcome resistance and improve outcomes.



**THANK YOU**

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