



ASOCIACIÓN DE ONCÓLOGOS
CLÍNICOS DE CÓRDOBA

Durvalumab with or without tremelimumab in patients with recurrent or metastatic head and neck squamous cell carcinoma: EAGLE, a randomized, open-label phase III study

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Introduction

- Head and neck squamous cell carcinoma (HNSCC) is among the 10 most common cancers worldwide
- Approximately 10% of patients with HNSCC will be diagnosed with metastatic disease ^(1, 2)
- Around half will have disease recurrence
- The platinum-based doublet chemotherapy with cetuximab regimen has been the most widely-used therapy and considered standard of care (SoC) since 2007 ^(3, 4)
- The available options in second-line have delivered limited survival benefits ⁽³⁾

Principles of systemic therapies

Preferred Regimens (First-Line)

- Cetuximab/platinum (cisplatin or carboplatin)/5-FU^{c,29} (category 1)
- Immunotherapy
 - ▶ Pembrolizumab/platinum (cisplatin or carboplatin)/5-FU^{c,30} (category 1)
 - ▶ Pembrolizumab (for tumors that express PD-L1 with CPS ≥ 1)^{30,31} (category 1 if CPS ≥ 20)

Preferred Regimens (Subsequent-Line)

- Immunotherapy (if not previously used)
 - ▶ Nivolumab³² if disease progression on or after platinum therapy (category 1)
 - ▶ Pembrolizumab³³⁻³⁵ if disease progression on or after platinum therapy (category 1)

Other Recommended Regimens (First-Line)

Combination Therapy

- Cisplatin/cetuximab³⁶
- Cisplatin or carboplatin/docetaxel³⁷ or paclitaxel³⁸
- Cisplatin/5-FU^{38,39}
- Cisplatin or carboplatin/docetaxel/cetuximab⁴⁰
- Cisplatin or carboplatin/paclitaxel/cetuximab⁴¹

Single Agents

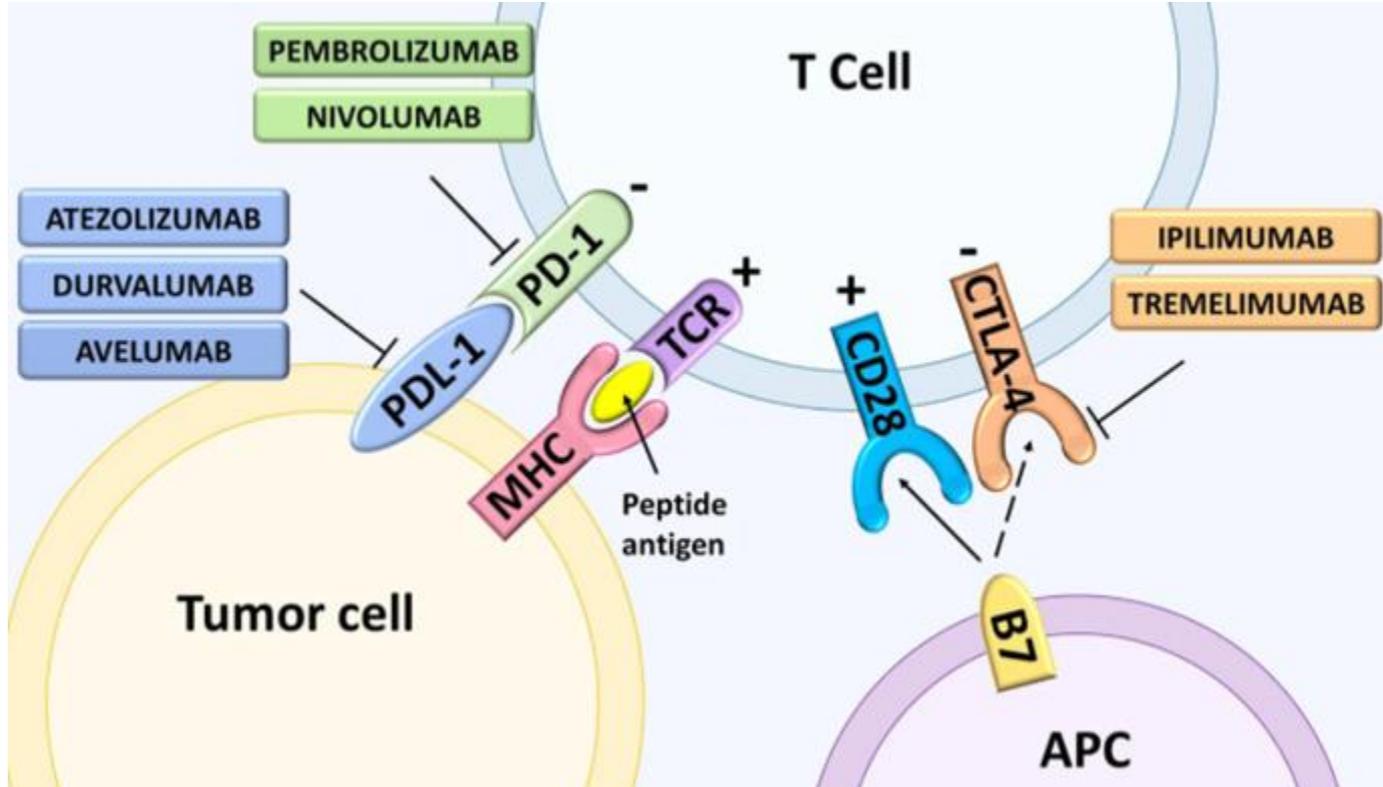
- Cisplatin^{36,42}
- Carboplatin⁴³
- Paclitaxel⁴⁴
- Docetaxel^{45,46}
- 5-FU⁴²
- Methotrexate^{39,47}
- Cetuximab⁴⁸
- Capecitabine⁴⁹

Other Recommended Regimens (Subsequent-Line)

Combination Therapy or Single Agents

- ▶ See preferred and other recommended first-line therapy options above
- Targeted Therapy
 - ▶ Afatinib⁵⁰ if disease progression on or after platinum therapy (category 2B)

Mechanism of action





Study design

Phase III trial, randomly 1:1, >18 years old, PE 1 first- line

The study was conducted at 156 sites globally

Stratified to: PD-L1 expression (V= SP263 AZ), tumor location, HPV and smoking status

Endpoints: 1° - OS
2° - PFS, ORR, DoR and Safety

Doses

A- Durvalumab 10 mg/Kg q2w

B- Durvalumab 20 mg/Kg plus Tremelimumab 1 mg/Kg q4w x4 → Durv. 10mg/Kg q2w

C- SoC single- agent (cetuximab, docetaxel, paclitaxel, methotrexate, 5-fluorouracil, TS-1, or capecitabine)

* dosed and administered according to local regulations

Study design

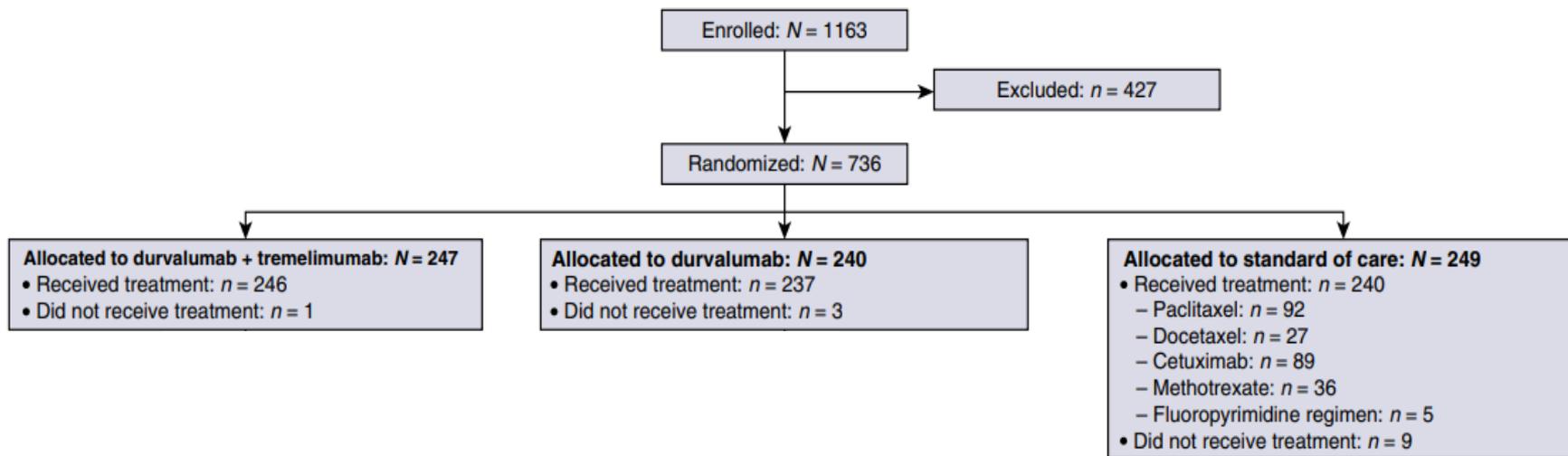


Table 1. Baseline demographics and clinical characteristics in the full analysis set

	Durvalumab (n = 240)	Durvalumab + tremelimumab (n = 247)	Standard of care (n = 249)
Median age, years (range)	59.0 (24–84)	61.0 (23–81)	61.0 (22–82)
Male, n (%)	202 (84.2)	209 (84.6)	207 (83.1)
Race, n (%)	n = 238	n = 242	n = 240
White	198 (83.2)	204 (84.3)	189 (78.8)
Asian	35 (14.7)	33 (13.6)	45 (18.8)
Other (including black or African American)	5 (2.1)	5 (2.0)	6 (2.4)
Ethnicity, n (%)			
Hispanic or Latino	15 (6.3)	16 (6.6)	13 (5.4)
Nicotine use, n (%)			
Current smoker	41 (17.1)	45 (18.2)	56 (22.5)
Former smoker	153 (63.8)	146 (59.1)	140 (56.2)
Never	46 (19.2)	56 (22.7)	53 (21.3)
Other nicotine use ^a	3 (1.3)	0	2 (0.8)
Primary tumor location, n (%)			
Oral cavity	64 (26.7)	65 (26.3)	61 (24.5)
Oropharynx	92 (38.3)	91 (36.8)	91 (36.5)
Hypopharynx	41 (17.1)	51 (20.6)	37 (14.9)
Larynx	37 (15.4)	33 (13.4)	45 (18.1)
Other	6 (2.5)	7 (2.8)	15 (6.0)
Time from last platinum therapy, n (%)	n = 227	n = 234	n = 237
<6 months	185 (81.5)	195 (83.3)	208 (87.8)
>6 months	42 (18.5)	39 (16.7)	29 (12.2)



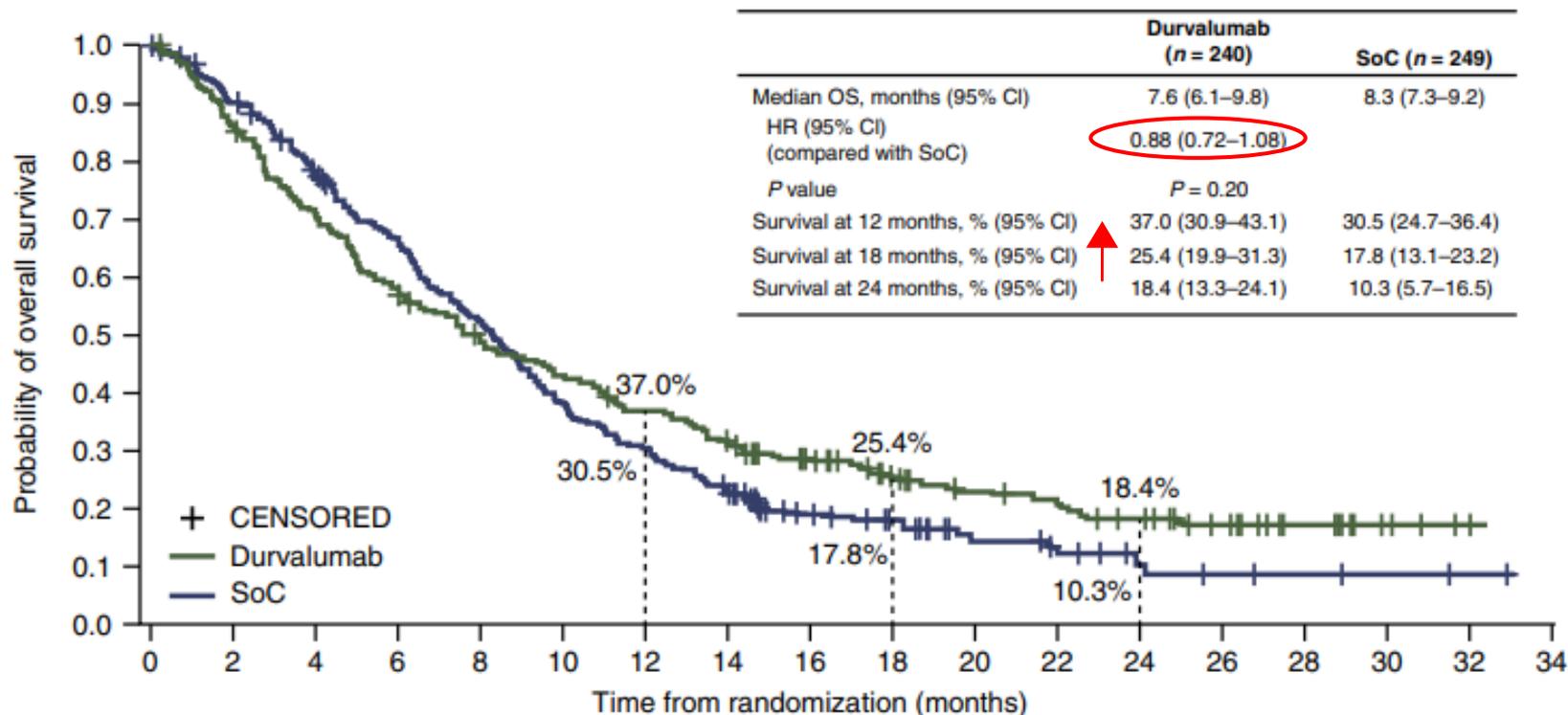
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ECOG PS, n (%)			
0	62 (25.8)	64 (25.9)	79 (31.7)
1	178 (74.2)	183 (74.1)	170 (68.3)
Median number of prior treatments (range)	1.0 (1–4)	1.0 (1–4)	1.0 (1–4)
Tumor location/HPV status, n (%)	n = 240	n = 246	n = 249
OPC/positive	30 (12.5)	30 (12.2)	31 (12.4)
OPC/negative	60 (25.0)	58 (23.6)	60 (24.1)
Non-OPC/any HPV	150 (62.5)	158 (64.2)	158 (63.5)
PD-L1 status, n (%)			
TC ≥ 25%	68 (28.3)	72 (29.1)	72 (28.9)
TC < 25%	172 (71.7)	175 (70.9)	177 (71.1)
Disease extent at baseline, n (%)			
Local/regional recurrence ± distant metastases	221 (92.1)	224 (90.7)	214 (85.9)
Distant metastases only	19 (7.9)	23 (9.3)	35 (14.1)

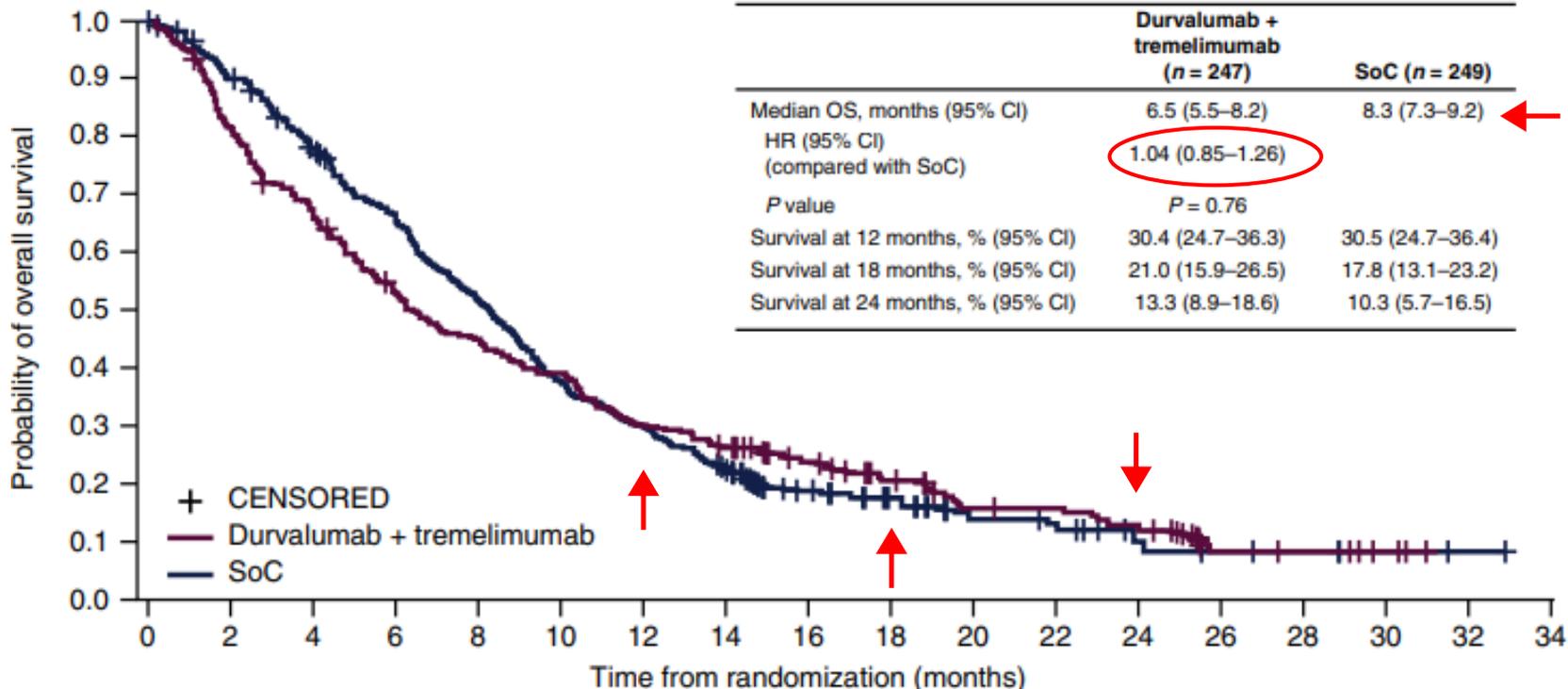
CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group performance status; HPV, human papilloma virus; OPC, oropharyngeal cancer; PD-L1, programmed death ligand 1; TC, tumor cell.

^a Including chewing tobacco/oral snuff/sublingual nicotine.

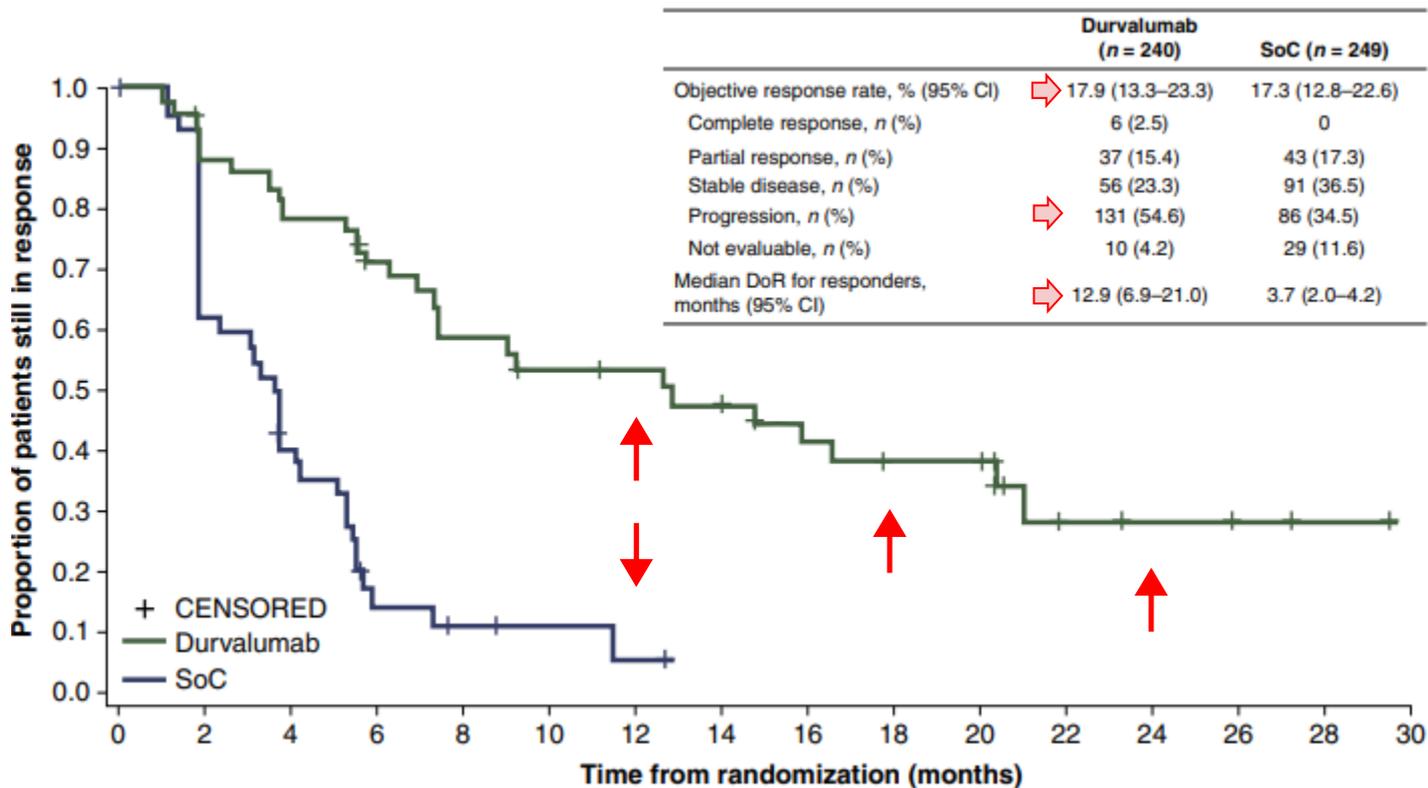
Median OS for durvalumab versus SoC



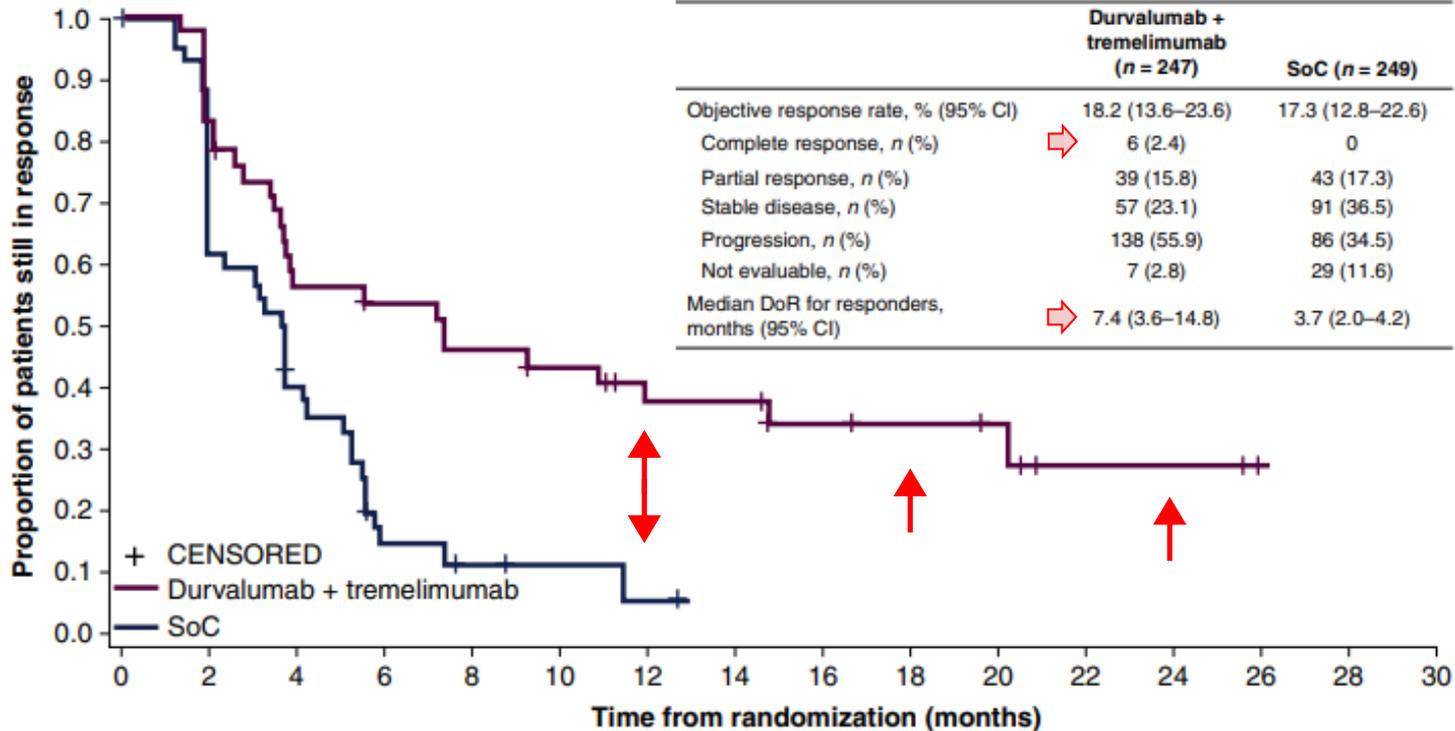
Median OS for durvalumab plus tremelimumab vs SoC



Duration of response for who responded to durvalumab vs SoC



Duration of response for who responded to durvalumab plus tremelimumab vs SoC



Safety

Table 2. Incidence of trAEs (≥5% for any grade, ≥2% for grade 3–4 in any arm) in the safety analysis set

	Durvalumab (n = 237)		Durvalumab + tremelimumab (n = 246)		Standard of care (n = 240)	
	Any grade	Grade 3–4	Any grade	Grade 3–4	Any grade	Grade 3–4
→ Patients with any trAE, n (%)	136 (57.4)	24 (10.1)	150 (61.0)	40 (16.3)	197 (82.1)	58 (24.2)
→ Alopecia	0	0	0	0	28 (11.7)	0
→ Anemia	12 (5.1)	0	20 (8.1)	4 (1.6)	42 (17.5)	11 (4.6)
Asthenia	15 (6.3)	1 (0.4)	20 (8.1)	5 (2.0)	32 (13.3)	2 (0.8)
Decreased appetite	12 (5.1)	0	14 (5.7)	2 (0.8)	28 (11.7)	3 (1.3)
Dermatitis acneiform	2 (0.8)	0	2 (0.8)	0	16 (6.7)	0
→ Diarrhea	14 (5.9)	0	20 (8.1)	2 (0.8)	17 (7.1)	3 (1.3)
Elevated ALT	7 (3.0)	1 (0.4)	10 (4.1)	0	14 (5.8)	1 (0.4)
Elevated GGT	8 (3.4)	1 (0.4)	10 (4.1)	2 (0.8)	12 (5.0)	1 (0.4)
Fatigue	16 (6.8)	2 (0.8)	18 (7.3)	3 (1.1)	26 (10.8)	2 (0.8)
→ Hypothyroidism	27 (11.4)	0	30 (12.2)	0	0	0
Leukopenia	2 (0.8)	0	9 (3.7)	0	12 (5.0)	4 (1.7)
Mucosal inflammation	0	0	1 (0.4)	0	12 (5.0)	1 (0.4)
Nausea	12 (5.1)	1 (0.4)	10 (4.1)	0	33 (13.8)	0
Neuropathy peripheral	3 (1.3)	1 (0.4)	3 (1.2)	0	20 (8.3)	2 (0.8)
→ Neutropenia	3 (1.3)	0	11 (4.5)	1 (0.4)	31 (12.9)	12 (5.0)
Pruritus	8 (3.4)	0	20 (8.1)	0	6 (2.5)	0
→ Rash	15 (6.3)	0	11 (4.5)	0	33 (13.8)	0
Stomatitis	4 (1.7)	1 (0.4)	3 (1.2)	0	23 (9.6)	0
Thrombocytopenia	5 (2.1)	1 (0.4)	11 (4.5)	2 (0.8)	16 (6.7)	1 (0.4)



Conclusions

- Not demonstrate a statistically significant survival benefit for immunotherapy over single-agent SoC as second-line treatment of patients with HNSCC R / M
- Combining durvalumab with tremelimumab did not show improvement over durvalumab activity
- Cross- trial comparison, 12-month survival rates for all three were similar (durvalumab, 37.0%; nivolumab, 36.0%; pembrolizumab, 37.0%)
- There were examples of activity in favor of durvalumab, including complete responders and longer DoR vs SoC, suggesting that the benefit from durvalumab was more durable than from SoC



Discussion

- Unexpectedly high OS for the SoC arm with a median of 8.3 months.
- Patients who received an immunotherapy after discontinuation of treatment in the EAGLE study had longer OS
- Imbalances in characteristics between groups, specifically ECOG PS and patients with metastatic disease
- Crossover phenomenon of Kaplan- Meier OS curves

