



Durvalumab in treatment-naive, stage IV non-small cell lung cancer (NSCLC) patients, with ECOG PS 2-3 and high PD-L1 tumor expression: results of the IFCT-1802 SAVIMMUNE Phase II Trial



V. Gounant¹, L. Greillier², C. Mascaux³, F. Pinquie⁴, D. Carmier⁵, L. Moreau⁶, B. Roch⁷, D. Debieuvre⁸, X. Dhalluin⁹, E. Giroux-Ieprieur¹⁰, E. Berton¹¹, A. Rabeau¹², J. Raimbourg¹³, A. Dixmier¹⁴, C. Naltet¹⁵, A. Khalil¹⁶, L. Ezzeddine¹⁶, A. Langlais¹⁷, F. Morin¹⁷, M. Duruisseaux¹⁸

¹Service d'Oncologie Thoracique, Hôpital Bichat, APHP, Université Paris Cité, Paris, France; ²Service d'Oncologie Multidisciplinaire & Innovations Thérapeutiques, APHM, Aix Marseille Univ, Marseille, France; ³Service de Pneumologie - Pôle de Pathologie Thoracique, Nouvel Hôpital Civil - Hôpitaux Universitaires de Strasbourg, Strasbourg, France; ⁴Service de Pneumologie, Centre Hospitalier Général, Le Mans, France; ⁵Service de Pneumologie, CHU Bretonneau, Tours, France; ⁶Service de Médecine F, Hôpital Louis Pasteur, Colmar, France; ⁷Service d'Oncologie Thoracique, Hôpital Arnaud de Villeneuve, Montpellier, France; ⁸Service de Pneumologie, Groupe Hospitalier Région Mulhouse et Sud-Alsace, Mulhouse, France; ⁹Service Pneumologie et Oncologie Thoracique, Institut Cœur Poumon, Lille, France; ¹⁰Service de Pneumologie et Oncologie Thoracique, Hôpital Ambroise Paré, APHP, Boulogne, France; ¹¹Service de Pneumologie, CHU Grenoble, Grenoble, France; ¹²Service de Pneumologie, CHU de Toulouse, Toulouse, France; ¹³Institut de Cancérologie de l'Ouest, Saint Herblain, France; ¹⁴Service de Pneumologie, Centre Hospitalier Universitaire - Hôpital de la Source, Orleans, France; ¹⁵Service de Pneumologie Oncologie, Groupe Hospitalier Paris Saint Joseph, Paris, France; ¹⁶Service de Radiologie, Hôpital Bichat, Paris, France; ¹⁷Intergroupe Francophone de Cancérologie Thoracique (IFCT), Paris, France; ¹⁸Service de Pneumologie - Lyon Pradel, Hôpital Cardio-Vasculaire & Pneumologique L Pradel, Bron, France

Background

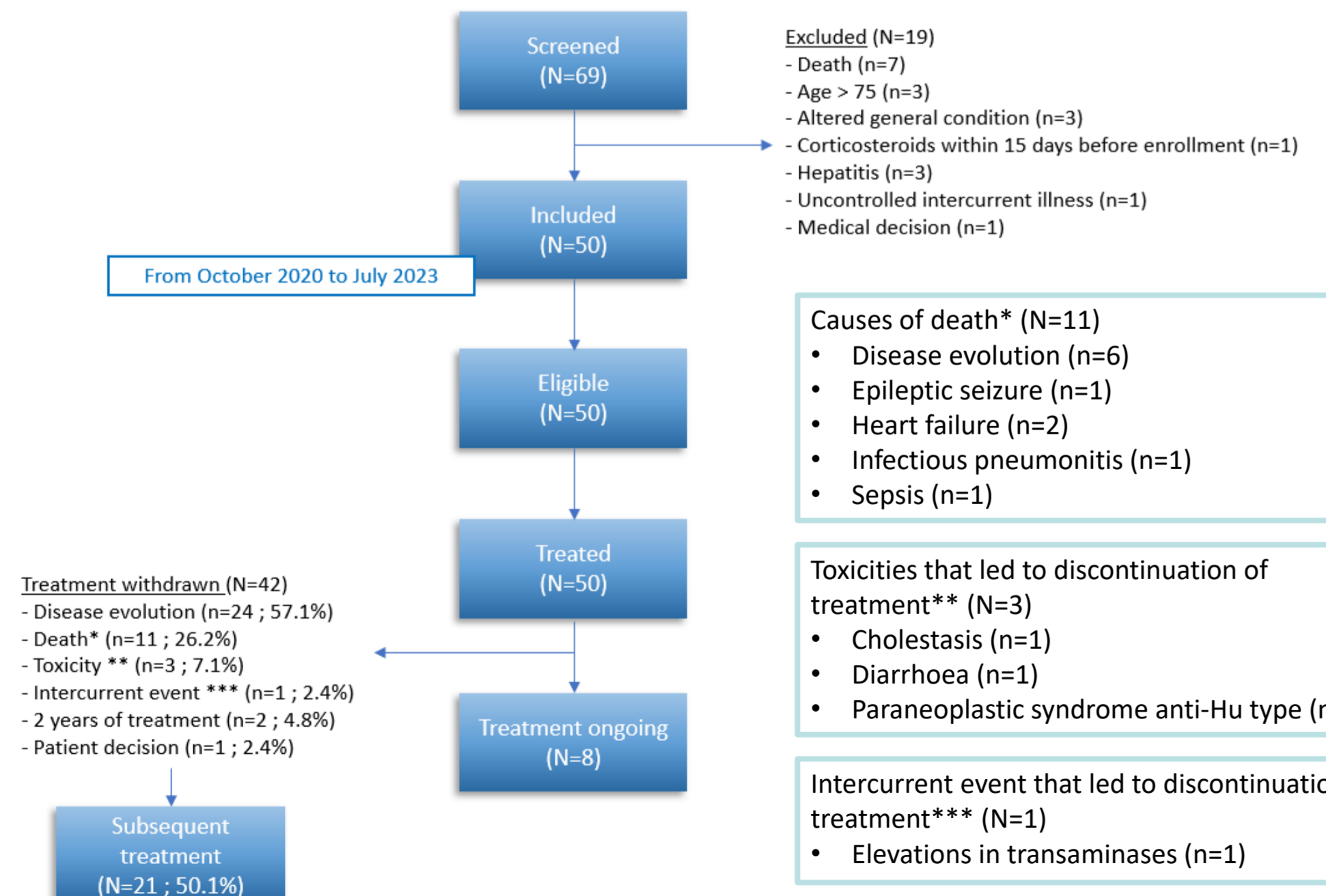
Performance Status (PS) 2-3 is a prognostic factor associated with poor survival (median OS in PS2 pts was 3-5 months with single agent chemotherapy, and 6-9 months with combination chemotherapy; and less than 2 months in PS3 pts) and higher incidence of chemotherapy-related adverse events (AE), while the impact of poor PS on immunotherapy safety and efficacy is less documented. We sought to prospectively assess front-line durvalumab (anti-PD-L1) in PS2-3 pts with advanced NSCLC and high PD-L1 expression.

Methods and Objectives

In this single-arm, multicentre (n=22), phase II trial, PS2-3 pts, **aged 18-75**, with metastatic NSCLC, **PD-L1 positive (TPS ≥25%)**, without brain metastases, received 1500mg durvalumab every 4 weeks until progression, toxicity or completion of 2 years of therapy. **Primary endpoint** was safety defined as the incidence of grade ≥3 treatment-related AE (TRAE) during the first 8 weeks (NCI CTCAE v.5.0). Using a 2-step binomial proportion test (O'Brien-Fleming's procedure), 67 pts were to be included, to achieve 95% power, with 5% type I error rate, to observe <40% (H0) G3-5 TRAE. **Secondary objectives** included intent-to-treat (ITT) blinded independent centrally reviewed (BICR) ORR and PFS, DoR, OS and PS improvement at 8 weeks.

At the data cutoff (30NOV2023), median duration of follow-up was 15.7 months [9.72-21.81].

Patient disposition



Baseline characteristics

Patients characteristics		ITT (N=50)	
Sex	Female	N (%)	15 (30)
	Male	N (%)	35 (70)
Age		Median [Min-Max]	68.3 [47.2-75.3]
Smoking status	Current	N (%)	30 (60)
	Former	N (%)	19 (38)
	Never	N (%)	1 (2)
PS	2	N (%)	40 (80)
	3	N (%)	10 (20)
Medical history	Diabetes	N (%)	12 (24)
	Renal	N (%)	1 (2)
	Respiratory	N (%)	19 (38)
	Cardiac	N (%)	18 (36)
Charlson score		Median [Min-Max]	8 [0.0-15.0]
Skeletal Muscle Index		Median [Min-Max]	38.8 [22.5-80.8]
Sarcopenia	Yes		41 (87.2)
	No		6 (12.8)
	UK		3

Tumor characteristics		ITT (N=50)	
Histology	Adenocarcinoma	N (%)	29 (58)
	Squamous cell carcinoma	N (%)	12 (24)
	Others (NOS, Large cell carcinoma)	N (%)	9 (18)
TNM (Stage)	IVA	N (%)	18 (36)
	IVB	N (%)	32 (64)
PD-L1 (%)		Median	87.5
PD-L1 expression	25-49%	N (%)	6 (12)
	≥ 50%	N (%)	44 (88)
Molecular status	EGFR mutation	N (%)	0
	ALK fusion	N (%)	0
	KRAS mutation	N (%)	20 (40)

Treatment-Related Adverse Events (TRAE)

The median number of treatment cycles was 3 [1-26]. During the first 8 weeks, grade ≥3 TRAE occurred in 10% of pts (95% CI 1.7%–18.3%). During the follow-up, any grade TRAE occurred in 50% of pts (95% CI 36.1%–63.9%). No grade 5 TRAE were reported.

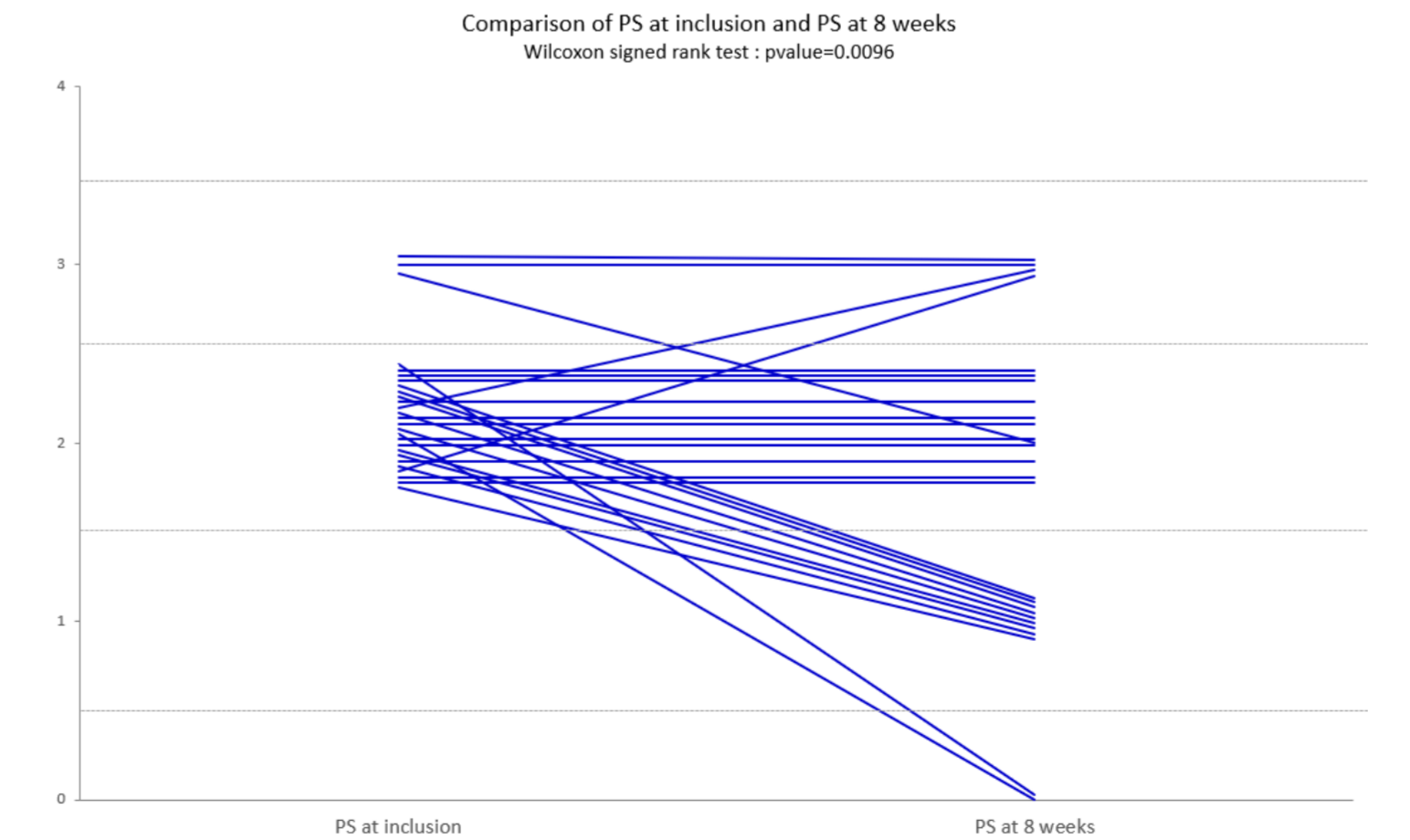
TRAE	Any grade	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
N (%)	25 (50%)	6 (12%)	12 (24%)	6 (12%)	1 (2%)	0 (0%)

ORR at 8 weeks

ORR at 8 weeks (N=50)	According to Investigators		According to BICR	
Partial Response	11 (22%)		13 (26%)	
Stable Disease	13 (26%)		9 (18%)	
Disease Control	24 (48%)		22 (44%)	
Progressive disease	16 (32%)		16 (32%)	
Not Evaluable	10 (20%)		12 (24%)	

BICR ORR at 8 weeks was 26% (95% CI 13.8%–38.2%) and 24% (95% CI 12.2%–35.8%) were confirmed at 16 weeks. Median DoR was 11.3 months (95% CI, 6.4 to NR).

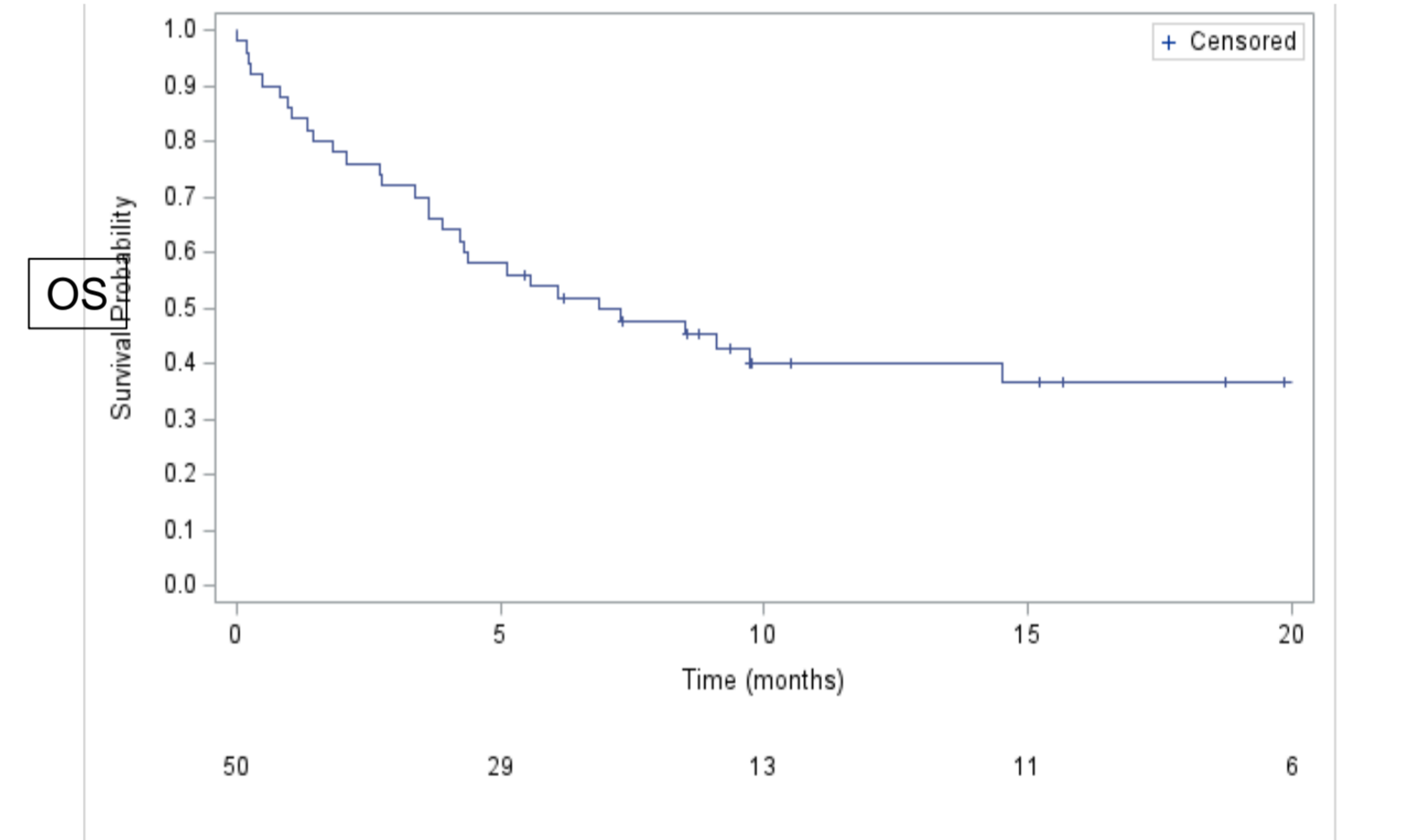
Change of PS at 8 weeks



Each line shows the change of PS of a patient from baseline to 8 weeks. A clinically valuable improvement in 11/50 (22%) of pts was observed (i.e. improvement from PS2-3 at baseline to PS0-1).

PFS and OS

	PFS	ITT (N=50)	PS 2 (N=40)	PS 3 (N=10)
Event: N (%)		40 (80%)	30 (75%)	10 (100%)
Median PFS: months [95% CI]		2.3 [1.7-5.6]	3.5 [1.8-9.4]	1.4 [0.2-3.9]
OS				
Event: N (%)		31 (62%)	22 (55%)	9 (90%)
Median OS: months [95% CI]		6.9 [3.9-31.1]	9.7 [4.4-NR]	3.0 [0.2-5.6]
12-m OS: % [95% CI]		40.1 [26.1-53.7]	47.7 [31.0-62.7]	10.0 [0.6-35.8]



Conclusions

In PS2-3 pts with advanced NSCLC and high PD-L1 expression, front-line durvalumab is safe and showed interesting activity. The challenge remains the selection of patients who could actually derive benefits from ICI beyond PDL1 expression.

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