# ASCO 2023 Updates in Cutaneous Melanoma and Hepatocellular Carcinoma

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## Disclosures:

- Consulting relationship with Replimune (2023)
- Consulting relationship with Immunocore (Ongoing)

## Hepatocellular Carcinoma Updates

# Advanced HCC management – Current Landscape

- Atezolizumab plus Bevacizumab [Child-Pugh Class A/B]
- Tremelimumab plus Durvalumab
- Lenvatinib [Child-Pugh Class A]
- Sorafenib [Child-Pugh Class A/B7]
- Single agent Durvalumab
- Single agent Pembrolizumab or Nivolumab

Efficacy, safety and patient reported outcomes (PROs) from the phase III **IMbrave050** trial of adjuvant atezolizumab (atezo) + bevacizumab (bev) vs active surveillance in patients with hepatocellular carcinoma (HCC) at high risk of disease recurrence following resection or ablation.

Abstract 4002 Presented by Dr. Masatoshi Kudo Oral Abstract Session

- Currently, there is no standard of care for adjuvant systemic therapy in HCC, post surgery or ablation.
- The annual recurrence rate of HCC after surgical resection is ≥10% and reaches 70–80% after 5 years

# IMbrave050 Study Design (Phase III)

HCC patients, s/p ablation or surgery **High-risk features** ECOG PS 0-1 CP Class A Disease free No extra-hepatic disease or macrovascular invasion

Randomized 1:1

Atezolizumab plus Bevacizumab for 17 cycles (12 months); N = 334

Active surveillance (SOC); N = 334

High Risk Features: Tumor > 5 cm >3 tumors Microvascular invasion Minor macrovascular invasion (Vp1/Vp2) Grade 3 or higher histology

>87.87% of the study patients underwent hepatic resection

## IMbrave050 Result Summary

	Atezo plus Bev (N=334)	Active surveillance (N=334)
12-month recurrence free-survival rate	78%	65%

Median follow-up of 17.4 months Data also presented at AACR 2023 by Chow et al.

The patient reported outcomes (PRO) analysis showed that patients in both arms did not experience any clinically meaningful deterioration at any time in:

- Health-related QOL
- Physical Functioning
- Role functioning
- Emotional Functioning
- Social Functioning

Scores did not differ between (Atezo-Bev and Surveillance arms)

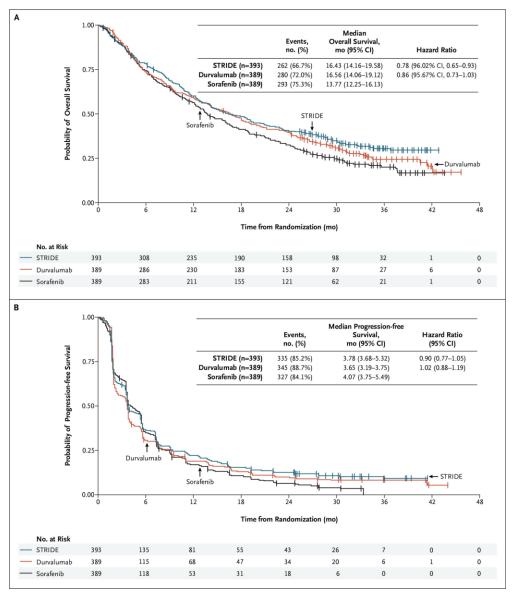
*Questionnaire used: IL42–EORTC QLQ-C30 (reduced)* 

Temporal patterns of immune-mediated adverse events (imAEs) with tremelimumab (T) plus durvalumab (D) in the phase 3 HIMALAYA study in unresectable hepatocellular carcinoma (uHCC). Abstract 4073: George Lau, et al.

**Background:** In the Phase 3 HIMALAYA study in uHCC, STRIDE (Single T Regular Interval D) significantly improved OS vs. sorafenib (S) and had manageable safety.

STRIDE is FDA approved for uHCC in the US {front-line setting).

In this exploratory post hoc analysis, the authors assessed temporal patterns of imAEs for the STRIDE regimen in HIMALAYA.



(Abou-Alfa et al. *NEJM Evid* 2022)

Temporal patterns of immune-mediated adverse events (imAEs) with tremelimumab (T) plus durvalumab (D) in the phase 3 HIMALAYA study in unresectable hepatocellular carcinoma (uHCC). Abstract 4073: George Lau, et al.

**Results:** 388 (STRIDE) and 374 (S) pts were included in the safety analysis.

Any grade treatment-related AEs (TRAEs) and Grade 3 or 4 TRAEs were less frequent for STRIDE (75.8% and 25.8%, respectively) versus S (84.8% and 36.9%, respectively).

Any grade imAEs and Grade 3 or 4 imAEs occurred in 35.8% and 12.6% of pts, respectively for STRIDE. These were most likely to occur within the first 3 months after treatment.

**Conclusion:** Any grade TRAEs and Grade 3 or 4 TRAEs were less frequent for STRIDE versus S. Although imAEs with STRIDE could occur at any time, most were observed within the first three months after treatment.

	STRIDE	STRIDE
Pts with event – n (%)	(n=388)	(n=388)
	Any grade	Max Grade 3 or 4
Time from first dose to imAE, months		
≤1	69 (17.8)	34 (8.8)
>1 to ≤2	43 (11.1)	6 (1.5)
>2 to ≤3	23 (5.9)	2 (0.5)
>3 to ≤6	23 (5.9)	2 (0.5)
>6	23 (5.9)	7 (1.8)

Salvage ipilimumab plus nivolumab in advanced hepatocellular carcinoma after prior anti-PD-(L)1 blockade. Abstract 4091; Stephanie Leigh Alden, MD

#### Background

JAMA Oncology | Original Investigation

Efficacy and Safety of Nivolumab Plus Ipilimumab in Patients With Advanced Hepatocellular Carcinoma Previously Treated With Sorafenib

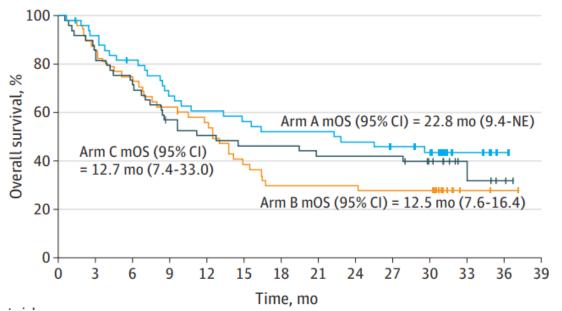
The CheckMate O4O Randomized Clinical Trial

Phase 1-2 Study

N=148

Patients randomized 1:1:1

Study results led to accelerated FDA approval of Ipilimumab (3 mg/kg) plus Nivolumab (1 mg/kg) [x4] followed by Nivolumab 240 mg every 2 weeks [arm A regimen]



Salvage ipilimumab plus nivolumab in advanced hepatocellular carcinoma after prior anti-PD-(L)1 blockade. Abstract 4091; Stephanie Leigh Alden, MD

**Methods:** Multi-center retrospective review of HCC patients who had received at least one dose of anti-PD-(L)1 therapy prior to receiving ipilimumab plus nivolumab. **Results:** 

## N=32 (Child-Pugh A 66%)

Prior anti-PD-(L)1 containing regimens included atezolizumab plus bevacizumab (50%, n = 16), other VEGF plus anti-PD-(L)1 combination (31%, n = 10), and anti-PD-(L)1 monotherapy (19%, n = 6).

The objective response rate (ORR) was 22% (1 CR, (3%), 6 PR (19%)) Additional responses: 8 SD (25%), 16 PD (50%), and 1 NE (3%).

Among patients who had an OR to Ipi-Nivo, none had an objective response to prior anti-PD-(L)1 treatments.

**Conclusion:** Ipi-Nivo has clinical activity in patients with advanced HCC who previously received anti-PD-(L)1 therapy, supporting this regimen as second line therapy in advanced HCC.

# Updates in Cutaneous Melanoma

- RELATIVITY-047 Update
- KEYNOTE 716 Update
- New anti-LAG3 and anti-PD1 combination

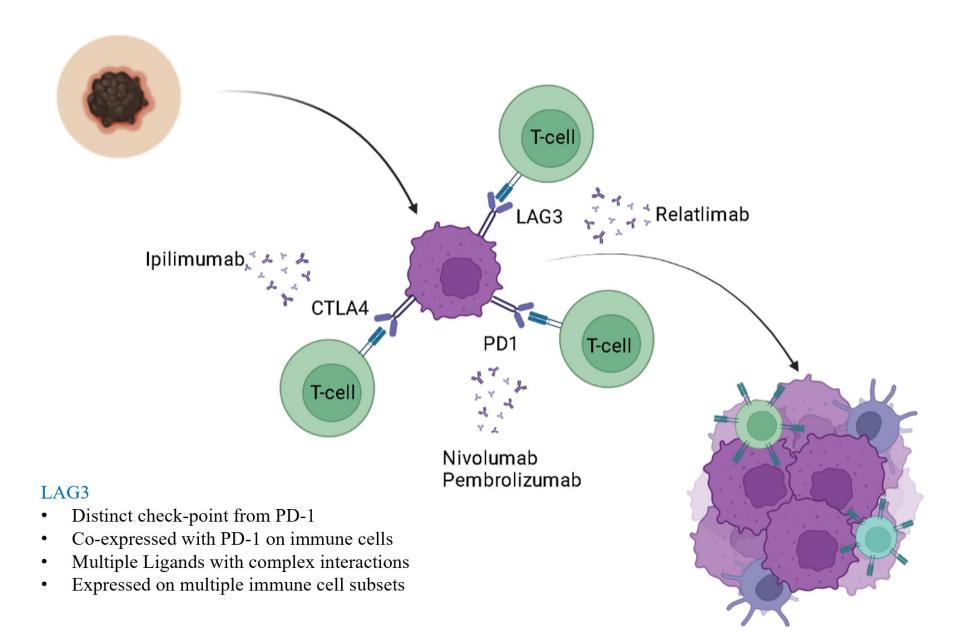
# Melanoma: Current Landscape of systemic immune therapy

Stage IV (front line)	Clinical Trial Ipilimumab plus Nivolumab Relatlimab plus Nivolumab (RELATIVITY-047) Nivolumab Pembrolizumab
Stage III (Adjuvant)	Nivolumab Pembrolizumab
Stage IIB-IIC (Adjuvant)	Pembrolizumab (KEYNOTE 716)

## Abstract 9502 - Oral abstract Session Presented by Dr. Hussein Tawbi

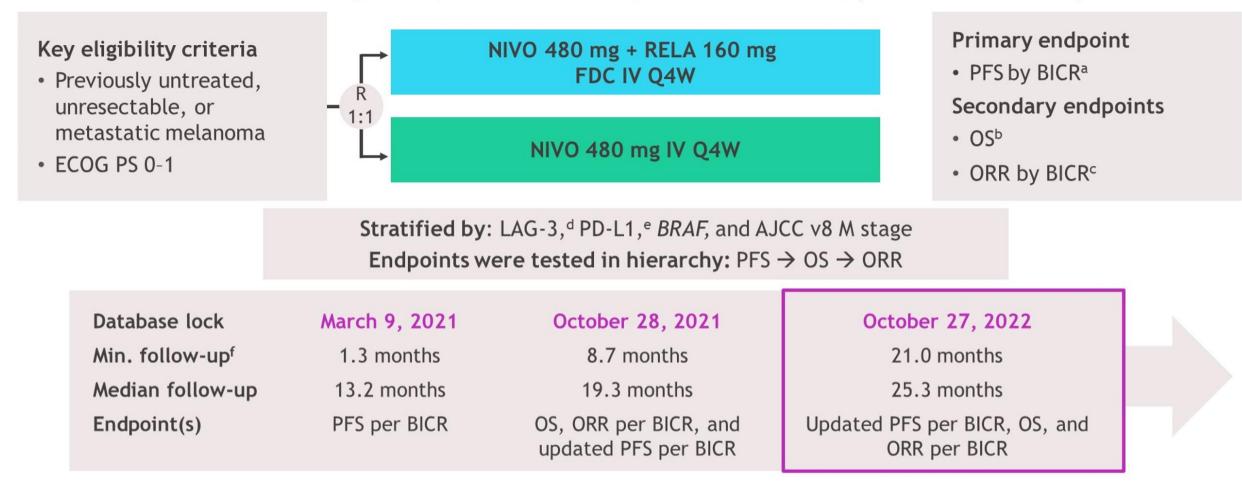
Nivolumab (NIVO) plus relatlimab (RELA) vs. NIVO in previously untreated metastatic or unresectable melanoma: 2-year results from RELATIVITY-047

In RELATIVITY-047, RELA plus NIVO demonstrated superior PFS as compared to NIVO, this led to FDA approval of Relatlimab plus Nivolumab in March 2022.



## Study design

• RELATIVITY-047 is a global, randomized, double-blind, phase 2/3 study



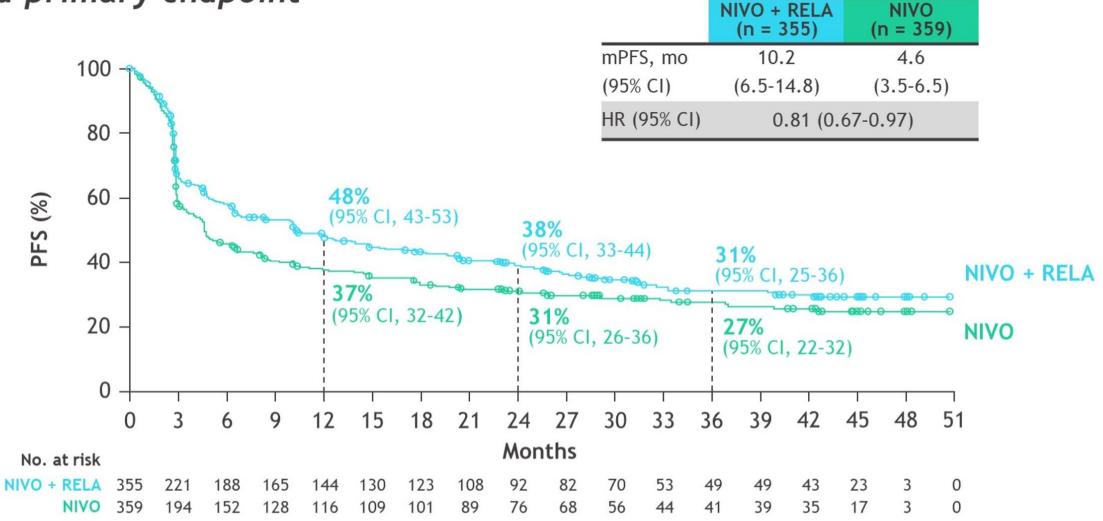
#### With permission, courtesy Dr. Tawbi

#### **Baseline Characteristics**

Characteristic	Relatlimab–Nivolumab (N = 355)	Nivolumab (N = 359)	Total (N = 714)
Median age (range) — yr	63.0 (20–94)	62.0 (21–90)	63.0 (20–94)
Female sex — no. (%)	145 (40.8)	153 (42.6)	298 (41.7)
Previous systemic therapy — no. (%)	110 (10.0)	100 (12.0)	250 (12.7)
Adjuvant	31 (8.7)	26 (7.2)	57 (8.0)
Neoadjuvant	2 (0.6)	1 (0.3)	3 (0.4)
Unknown or other	0	2 (0.6)	2 (0.3)
Metastasis stage — no. (%)†		- ()	- ()
MO	35 (9.9)	23 (6.4)	58 (8.1)
Mla or b	162 (45.6)	195 (54.3)	357 (50.0)
Mlc	151 (42.5)	127 (35.4)	278 (38.9)
Mld	6 (1.7)	11 (3.1)	17 (2.4)
Melanoma subtype classification — no. (%)	· ··· /		()
Cutaneous acral	41 (11.5)	41 (11.4)	82 (11.5)
Cutaneous nonacral	249 (70.1)	254 (70.8)	503 (70.4)
Mucosal	23 (6.5)	28 (7.8)	51 (7.1)
Other	42 (11.8)	36 (10.0)	78 (10.9)
ECOG performance status — no. (%)‡	()	,	
0	236 (66.5)	242 (67.4)	478 (66.9)
1	119 (33.5)	117 (32.6)	236 (33.1)
LDH level — no. (%)		. ,	
> ULN	130 (36.6)	128 (35.7)	258 (36.1)
>2× ULN	32 (9.0)	31 (8.6)	63 (8.8)
Median tumor burden (range) — mm§	59.0 (10–317)	54.5 (10-548)	
Sites with ≥1 lesion — no. (%)¶			
1	127 (35.8)	158 (44.0)	285 (39.9)
2	111 (31.3)	102 (28.4)	213 (29.8)
≥3	112 (31.5)	87 (24.2)	199 (27.9)
Stratification factors — no. (%)			
LAG-3 expression			
≥1%	268 (75.5)	269 (74.9)	537 (75.2)
<1%	87 (24.5)	90 (25.1)	177 (24.8)
PD-L1 expression			
≥1%	146 (41.1)	147 (40.9)	293 (41.0)
<1%	209 (58.9)	212 (59.1)	421 (59.0)
BRAF mutation status			
Patients with BRAF mutations	136 (38.3)	139 (38.7)	275 (38.5)
Patients without BRAF mutations	219 (61.7)	220 (61.3)	439 (61.5)
Metastasis stage with LDH level		. ,	, ,
M0, M1 and normal LDH level	232 (65.4)	237 (66.0)	469 (65.7)
M1 and elevated LDH level	123 (34.6)	122 (34.0)	245 (34.3)

Tawbi et al. NEJM; 2022

### Updated primary endpoint



RELATIVITY-047 (NCT03470922). Median follow-up: 25.3 months.

#### With permission, courtesy Dr. Tawbi

## Safety summary

	NIVO + RELA (n = 355)		NIVO (n = 359)	
AE, n (%)	Any grade	Grade 3-4	Any grade	Grade 3-4
Any AE	352 (99)	161 (45)	344 (96)	139 (39)
TRAE	301 (85)	78 (22)	262 (73)	43 (12)
Leading to discontinuation	61 (17)	34 (10)	31 (9)	14 (4)
Treatment-related deaths <sup>a</sup>	4 (1)		2 (	1)

With permission, courtesy Dr. Tawbi

Table 2. Summary of Adverse Events.				
Adverse Event	Relatlimab–Nivolumab (N = 355)		Nivolumab (N=359)	
	Any grade	Grade 3 or 4	Any grade	Grade 3 or 4
		number of eve	ents (percent)	
Any adverse event	345 (97.2)	143 (40.3)	339 (94.4)	120 (33.4)
Treatment-related adverse event	288 (81.1)	67 (18.9)	251 (69.9)	35 (9.7)
Led to discontinuation of treatment	52 (14.6)	30 (8.5)	24 (6.7)	11 (3.1)
Treatment-related adverse event in ≥10% of patients in the relatlimab–nivolumab group				
Pruritus	83 (23.4)	0	57 (15.9)	2 (0.6)
Fatigue	82 (23.1)	4 (1.1)	46 (12.8)	1 (0.3)
Rash	55 (15.5)	3 (0.8)	43 (12.0)	2 (0.6)
Arthralgia	51 (14.4)	3 (0.8)	26 (7.2)	1 (0.3)
Hypothyroidism	51 (14.4)	0	43 (12.0)	0
Diarrhea	48 (13.5)	3 (0.8)	33 (9.2)	2 (0.6)
Vitiligo	37 (10.4)	0	35 (9.7)	0
Immune-mediated adverse event*				
Hypothyroidism or thyroiditis	64 (18.0)	0	50 (13.9)	0
Rash	33 (9.3)	2 (0.6)	24 (6.7)	5 (1.4)
Diarrhea or colitis	24 (6.8)	4 (1.1)	11 (3.1)	5 (1.4)
Hyperthyroidism	22 (6.2)	0	24 (6.7)	0
Hepatitis	20 (5.6)	14 (3.9)	9 (2.5)	4 (1.1)
Adrenal insufficiency	15 (4.2)	5 (1.4)	3 (0.8)	0
Pneumonitis	13 (3.7)	2 (0.6)	6 (1.7)	2 (0.6)
Hypophysitis	9 (2.5)	1 (0.3)	3 (0.8)	1 (0.3)
Nephritis and renal dysfunction	7 (2.0)	4 (1.1)	5 (1.4)	4 (1.1)
Hypersensitivity	4 (1.1)	0	4 (1.1)	0

### **RELA plus Nivo vs. Ipi plus Nivo:** Toxicity Considerations

Immune Mediated AE (Any Grade)	RELA+NIVO (RELATIVTY) N=355	IPI + NIVO (Check Mate 067) N=313
Hypothyroidism	18% (including thyroiditis)	17%
Rash	9.3%	30%
Diarrhea/colitis	6.8%	Diarrhea 45% Colitis: 13%
Pneumonitis	3.7%	7%
Hypophysitis	2.5%	8%
Hepatitis	5.6%	17% (AST elevation) 19% (ALT elevation)

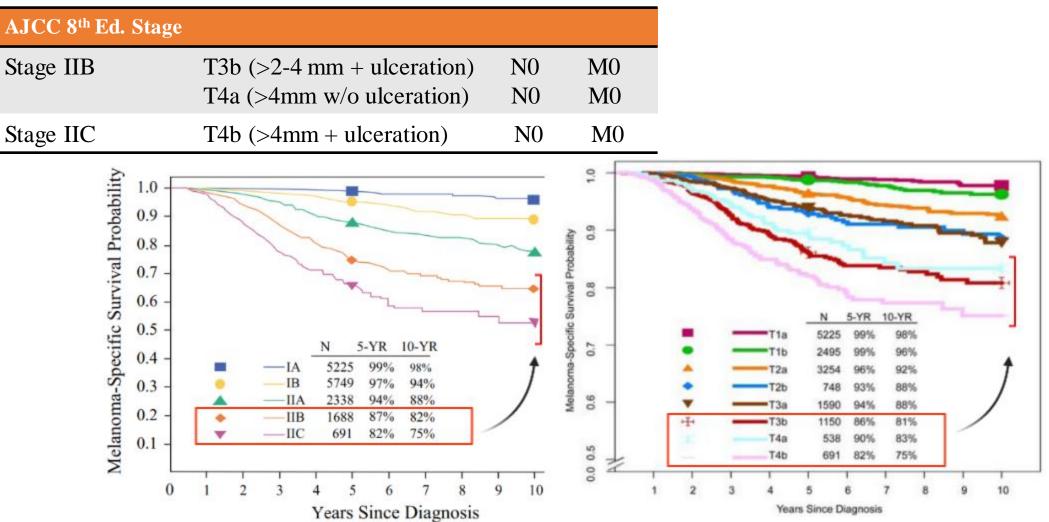
• Tawbi et al. NEJM; 2022

Update in Melanoma Adjuvant Therapy

Pembrolizumab vs. Placebo as Adjuvant Therapy in Stage IIB or IIC Melanoma: Final Distant Metastasis-Free Survival Analysis In the KEYNOTE-716 Study

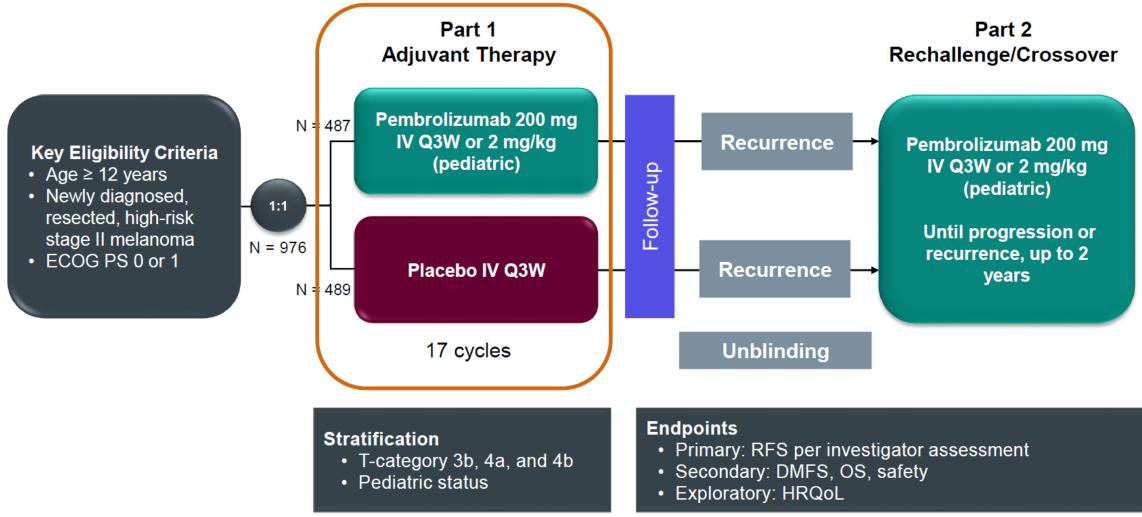
Presented by Dr. Jason Luke

## Rationale for using adjuvant therapy in High-risk Stage II Melanoma



Gershenwald et al. CA Cancer J Clin. 2017; 67(6): 472–492 Gershenwald and Scolyer. Ann Surg Oncol (2018) 25:2105–2110

## KEYNOTE-716 Study Design (NCT03553836)



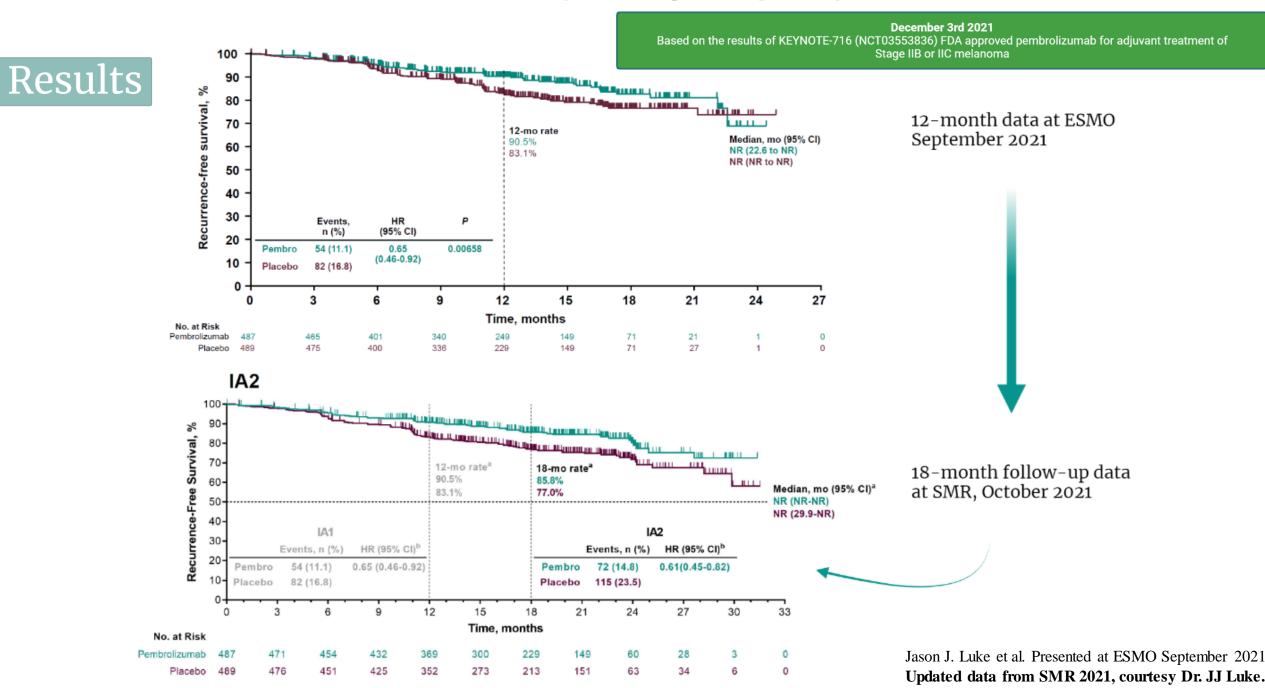
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# Relevant Baseline Characteristics:

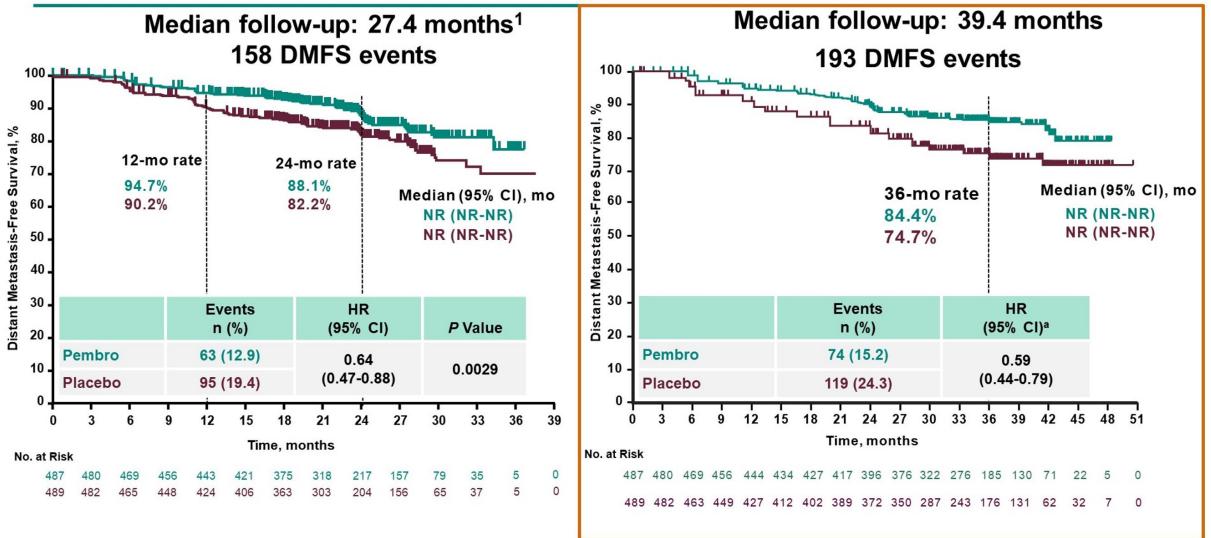
	Pembrolizumab N =487	Placebo N = 489
T Category		
T3b T4a T4b	200 (41.1) 113 (23.2) 172 (35.3)	201 (41.1) 116 (23.7) 172 (35.2)
Disease Stage		
IIB IIC	309 (63.4) 171 (35.1)	316 (64.6) 169 (34.6)

Approximately one third of the patients had T4b disease or stage IIC disease

#### **Recurrence-Free Survival (Primary Endpoint)**



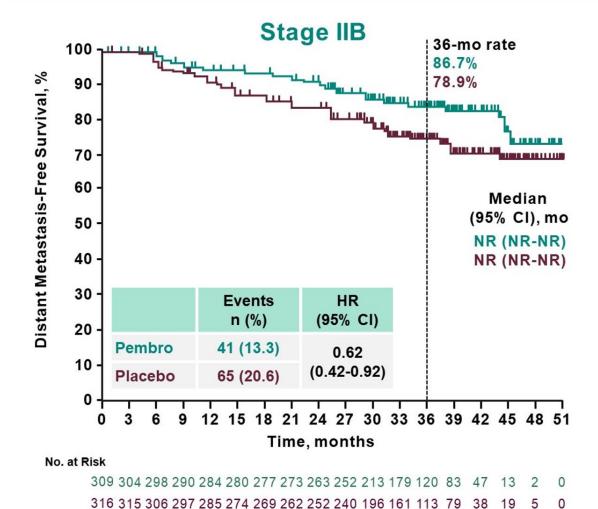
## **DMFS: ITT Population**

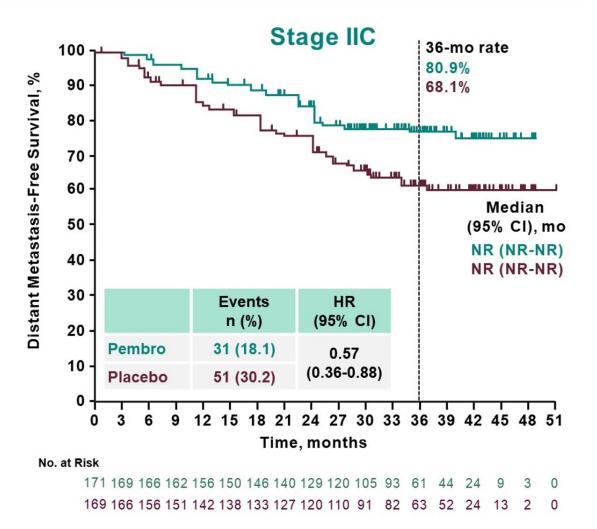


Long GV et al. Lancet Oncol. 2022;23(11):1378-1388.

With Permission, courtesy, Dr. Jason Luke

## DMFS by Stage





With Permission, courtesy, Dr. Jason Luke

Significant durable response with Fianlinub (anti-LAG-3) and cemiplimab (anti-PD-1) in advanced melanoma: Post adjuvant PD-1 analysis. Abstract 9501 Oral Abstract presented by Dr. Omid Hamid, MD

The benefit the fianlimab + cemiplimab combination in pts exposed to prior anti-PD-1 therapy as adjuvant therapy is unknown.

Current study was a phase 1 trial, including advanced melanoma patients (including those who received prior adjuvant systemic therapy)

Patients were enrolled into 3 expansion cohorts. All received fianlimab 1600 mg + cemiplimab 350 mg IV Q3W for 12 months.

#### Abstract 9501

N=98

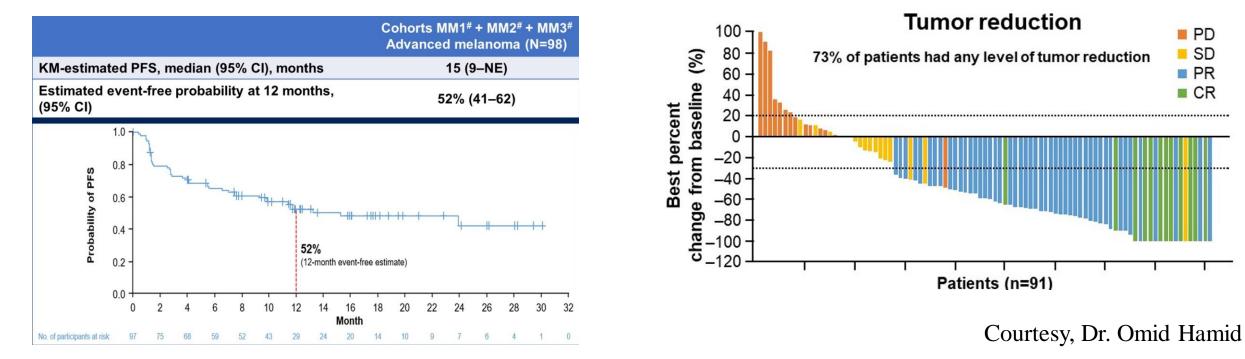
23.5% had received prior systemic therapy in the adjuvant/neo-adjuvant setting (13.3% received nivolumab or pembrolizumab).

Median follow up was 12.6 m.

RECIST 1.1-based investigator-assessed overall ORR was 61.2% (12 complete responses; 48 partial responses).

KM estimation of median PFS (mPFS) was 15.3 (95% CI: 9.4-NE) mo.

In pts with prior anti-PD-1 adj Tx, ORR, mDOR, and mPFS was 61.5% (8/13), NR, and 11.8 mos, respectively.



Thank you!