LATEST DEVELOPMENTS IN THE FIELD OF MELANOMA

Gil Awada, MD, PhD

Department of Medical Oncology

Universitair Ziekenhuis Brussel, Vrije Universiteit Brussel - Jules Bordet Institute Brussels, Belgium





Disclosures

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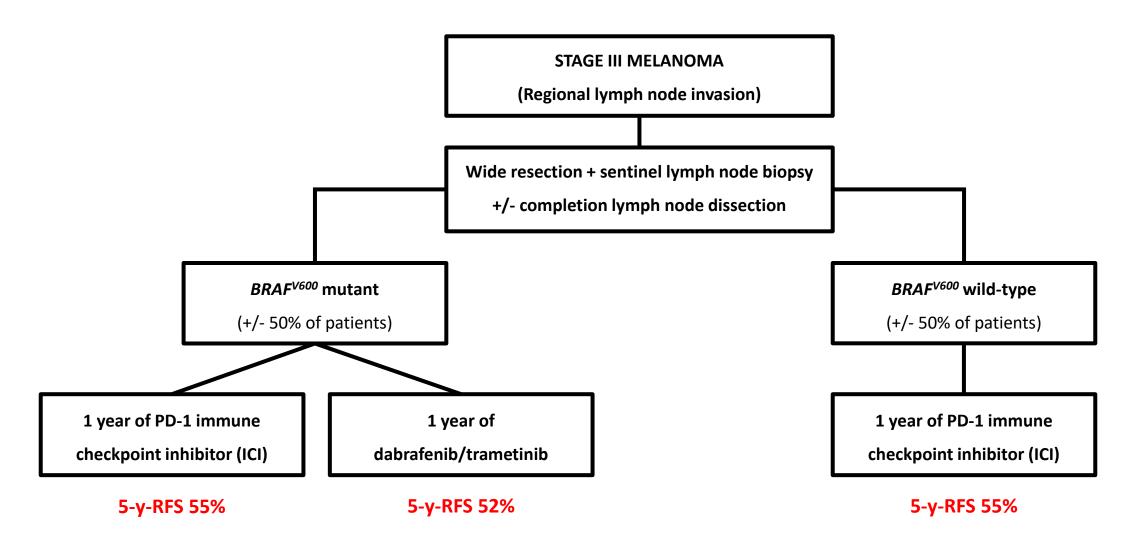
Outline

- (Neo)adjuvant management of localized and locoregional melanoma
 - Neoadjuvant treatment of stage III melanoma: SWOG S1801, PRADO
 - Adjuvant treatment of stage II melanoma: KEYNOTE-716
- Managament of advanced melanoma
 - New data on therapeutic sequencing: DREAMseq, IMMUNED, SWOG S1616
 - Novel immunotherapeutic strategies: RELATIVITY-047, M14TIL, IMCgp100-202
 - Novel treatment combinations: LEAP-004

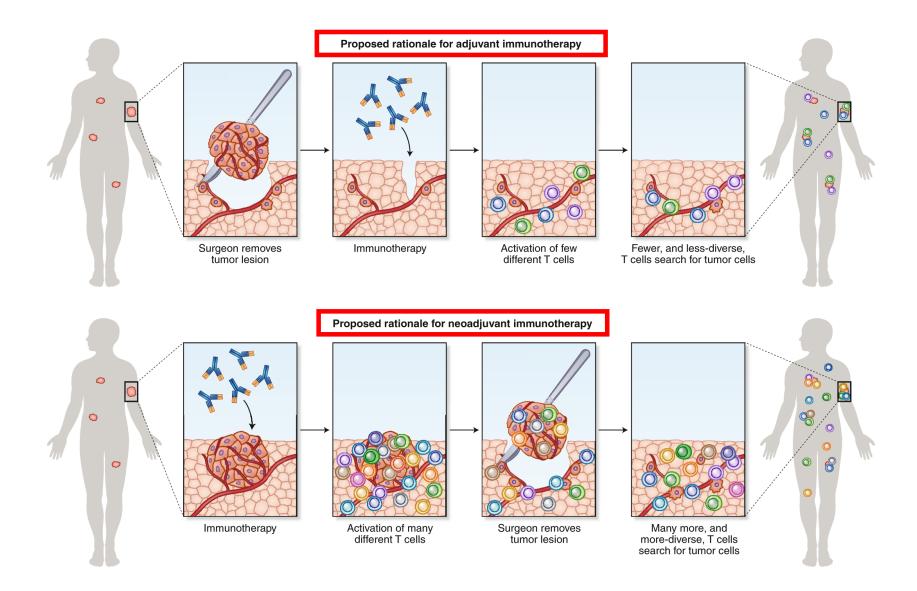
Conclusion

(Neo)adjuvant management of localized and locoregional melanoma

Adjuvant treatment of stage III melanoma



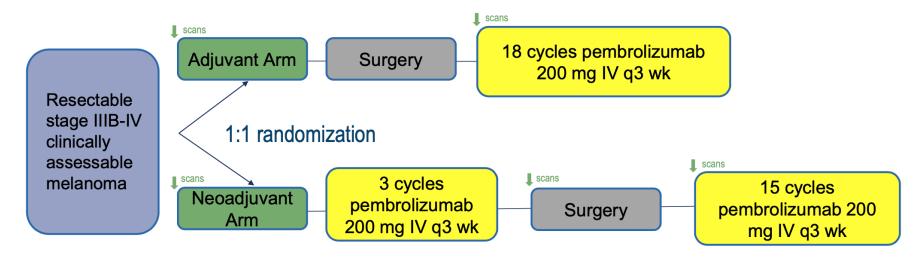
Neoadjuvant versus adjuvant treatment of melanoma



Neoadjuvant treatment of stage III melanoma

• <u>SWOG S1801</u>: phase 2 trial of neoadjuvant versus adjuvant pembrolizumab (PEMBRO) for resectable stage III-IV melanoma

Primary endpoint: Event-free survival



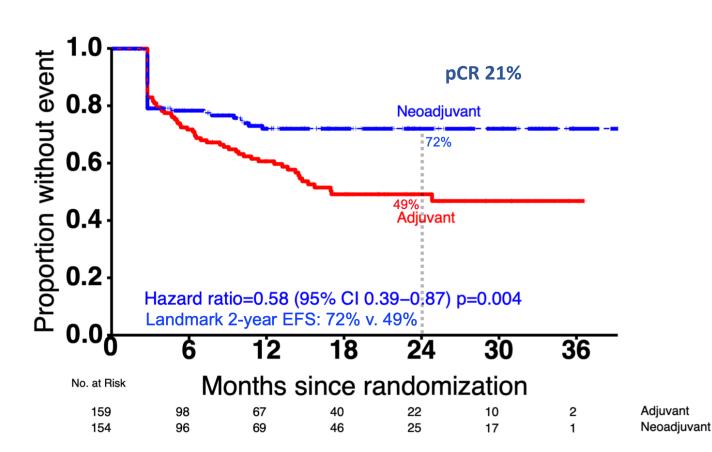
↓ radiographic assessment (scans)

Additional criteria: strata included AJCC 8th ed. stage and LDH, adjuvant radiation allowed, concomitant radiation & pembrolizumab was not allowed, brain metastasis excluded, uveal melanoma excluded

Surgery type and extent was required to be pre-specified and carried out regardless of radiologic response to therapy

Neoadjuvant therapy of stage III melanoma

• SWOG S1801: phase 2 trial of neoadjuvant versus adjuvant PEMBRO for resectable stage III-IV melanoma



Event-Free Survival (EFS) – primary endpoint

Measured from the date of randomization to the first of the following events:

- Progression or toxicity that rendered a study participant unable to receive surgery
- · Failure to begin adjuvant therapy within 84 days of surgery
- · Melanoma recurrence after surgery (local, regional, or distant)
- Death from any cause

Study participants who did not register to adjuvant therapy were assigned an EFS of 84 days*

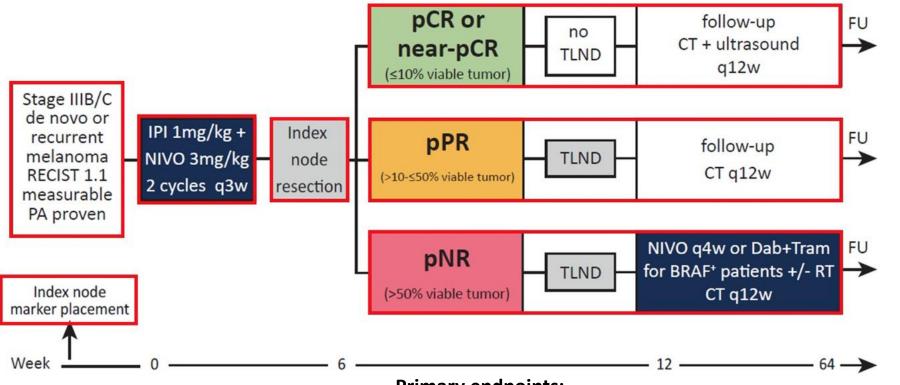
Event	Adjuvant (n=67)	Neoadjuvant (n=38)
Unable to receive surgery		
Toxicity	0	1
→ Disease progression	0	12
Other (co-morbidities, scheduling issue)	1	1
Unable to start adjuvant therapy		
Toxicity	0	3
→ Unable to resect all disease	1	1
→ Disease recurrence (local, regional, distant)	16	9
Refusal by study participant	2	1
Adjuvant radiation extended past 84-day window	1	0
Melanoma recurrence after starting adjuvant therapy	44	9
Death as first event	2	1

Denotes protocol-defined tumor related events

Neoadjuvant therapy of stage III melanoma

• PRADO: phase 2 trial of personalized response-driven surgery and adjuvant therapy after neoadjuvant

ipilimumab (IPI) and nivolumab (NIVO) in resectable stage III melanoma



Primary endpoints:

- Confirmation of pathologic response rate of IPI1 + NIVO3
- Show that patients with MPR in index lymph node can be spared TLND without impact on RFS
 - Prolong RFS in patients with pNR by adding adjuvant systemic therapy

pCR + near-pCR

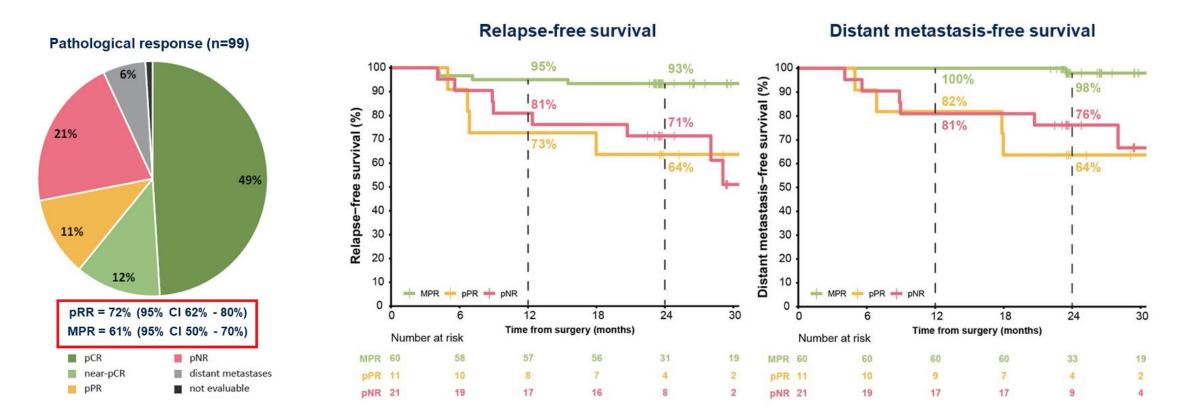
major

pathologic

response (MPR)

Neoadjuvant therapy of stage III melanoma

• <u>PRADO</u>: phase 2 trial of personalized response-driven surgery and adjuvant therapy after neoadjuvant ipilimumab (IPI) and nivolumab (NIVO) in resectable stage III melanoma



Neoadjuvant therapy in cutaneous squamous-cell carcinoma

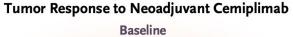
Phase 2 trial of neoadjuvant cemiplimab for stage II-IV cutaneous squamous-cell carcinoma

Pts with resectable stage II-IV (M0) cuSCC

Cemiplimab 350 mg Q3Wx4

Surgery with curative intent

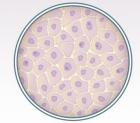
Primary endpoint: pCR





Resectable stage II, III, or IV (M0) cutaneous squamous-cell carcinoma

Pathological Complete Response

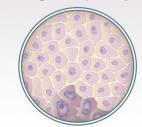


Absence of viable tumor cells in surgical specimen

Independent Review 40 patients (51%; 95% CI, 39 to 62)

Investigator Assessment 42 patients (53%; 95% CI, 42 to 65)

Pathological Major Response



Presence of viable tumor cells that constitute ≤10% of surgical specimen

Independent Review 10 patients (13%; 95% CI, 6 to 22)

Investigator Assessment 10 patients (13%; 95% CI, 6 to 22)

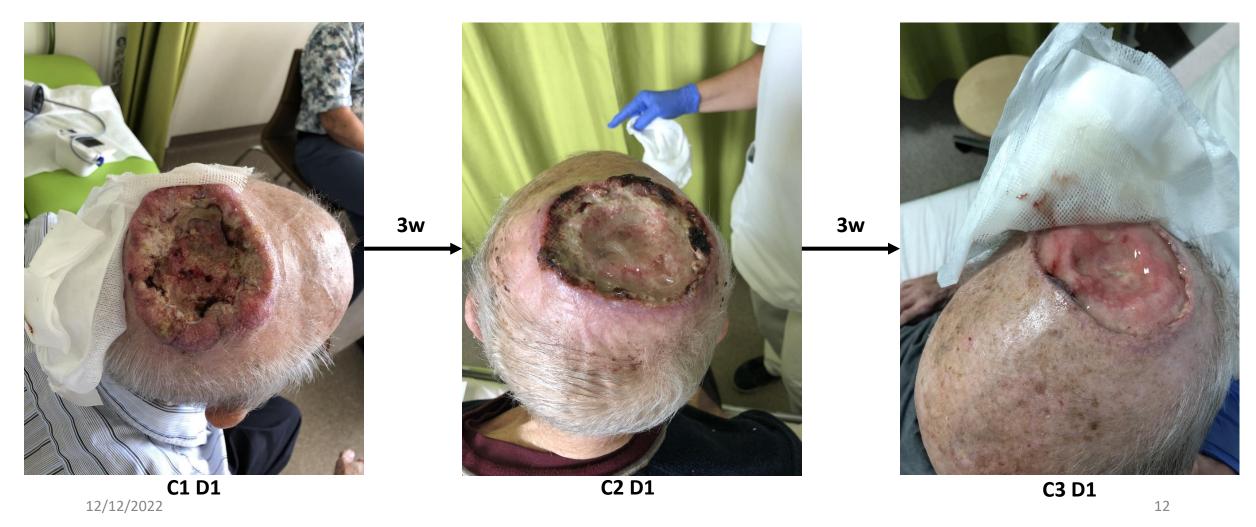
Adverse Events during Study Period

	Any Grade	Grade ≥3	
Adverse Event	no. of patients (%)		
Any event	69 (87)	14 (18)	
Serious event	13 (16)	10 (13)	
Event that led to discontinuation of treatment	1 (1)	1 (1)	
Event that led to death	4 (5)	4 (5)	
Event of any grade that occurred in ≥ 1 patient or grade ≥ 3 event			
Fatigue	24 (30)	1 (1)*	
Diarrhea	11 (14)	1 (1)*	
Nausea	11 (14)	0	
Maculopapular rash	11 (14)	0	

^{*} Grade 3 adverse events that occurred during the study period were observed in 8 patients (10%) who received neoadjuvant cemiplimab. A patient may have had more than one grade 3 adverse event.

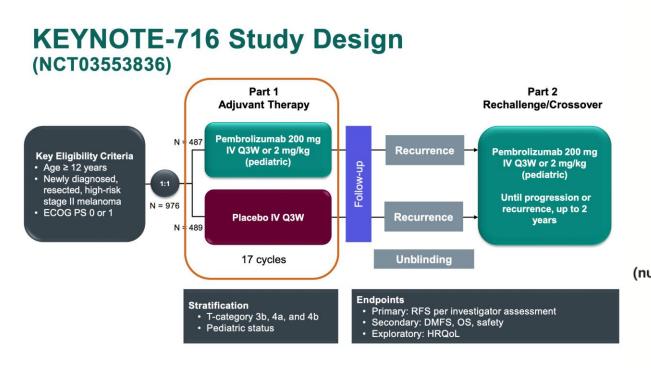
Neoadjuvant therapy in cutaneous squamous cell carcinoma

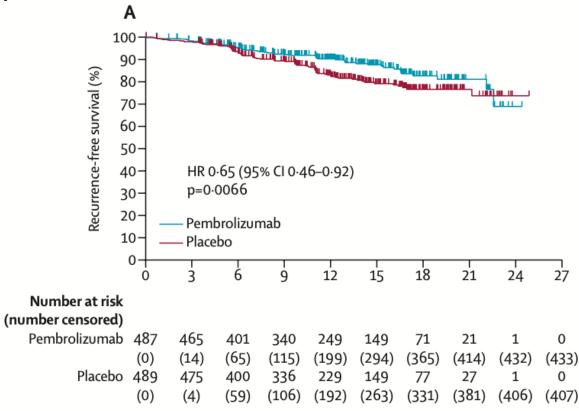
• Case: 90-year-old male with locally advanced inoperable cuSCC of the scalp treated with cemiplimab



Adjuvant treatment of stage II melanoma

KEYNOTE-716: adjuvant pembrolizumab in stage IIB/IIC melanoma





	Pembrolizumab group (n=487)	Placebo group (n=489)
Patients with an event	72 (15%)	115 (24%)
Local, regional, or locoregional*	38 (8%)	50 (10%)
Distant recurrence	31 (6%)	60 (12%)
Death	3 (1%)	5 (1%)

Adjuvant treatment of stage II melanoma

COLUMBUS-AD



Resources V About V

Record 1 of 1

Return to Search

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RECRUITING 6

ClinicalTrials.gov Identifier: NCT05270044

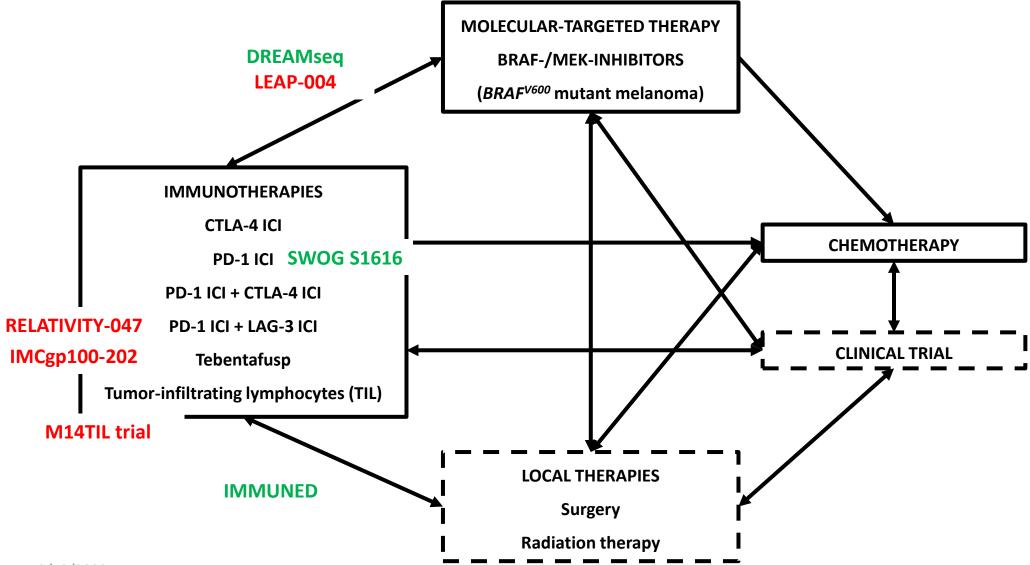
Adjuvant Encorafenib and Binimetinib in High-risk Stage II Melanoma With a BRAF Mutation. (COLUMBUS-AD)

Information provided by Pierre Fabre Medicament (Responsible Party)

Last Updated: November 8, 2022

Management of advanced melanoma

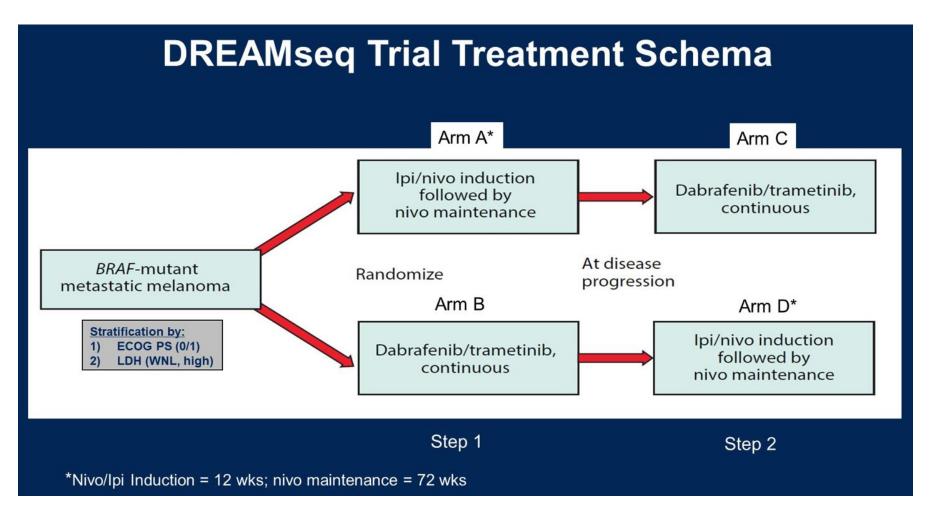
Management of advanced melanoma



16

Therapeutic sequencing in advanced BRAF^{V600} mutant melanoma

DREAMseq



Primary endpoint:

2-y-OS of

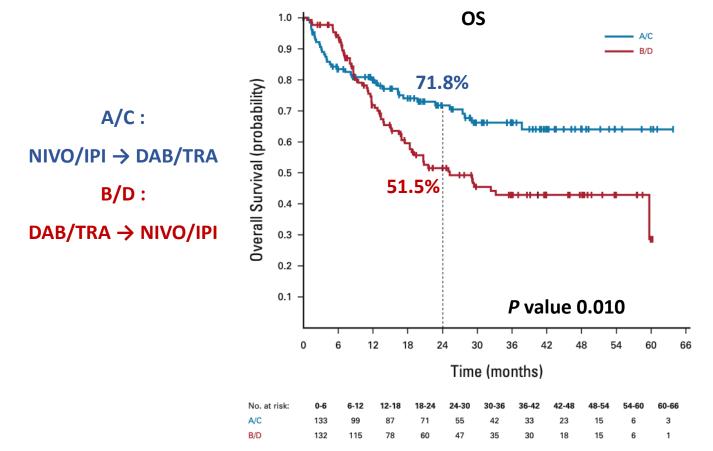
 $A \rightarrow C$

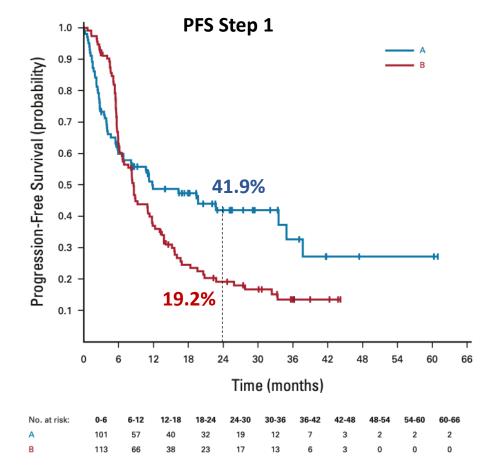
versus

 $B \rightarrow D$

Therapeutic sequencing in advanced BRAF^{V600} mutant melanoma

DREAMseq

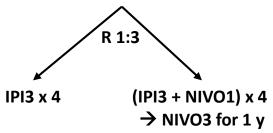




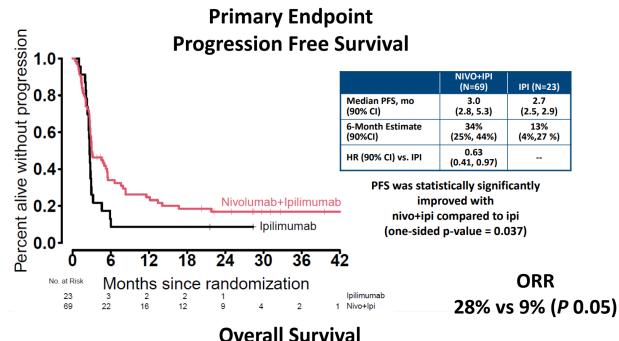
Treatment escalation after progressive disease on PD-1 ICI

 SWOG S1616: NIVO/IPI versus IPI in patients with melanoma that did not respond to PD-1
 ICI

Stage IV melanoma with PD after 1L PD-1/PD-L1 immune checkpoint inhibitors



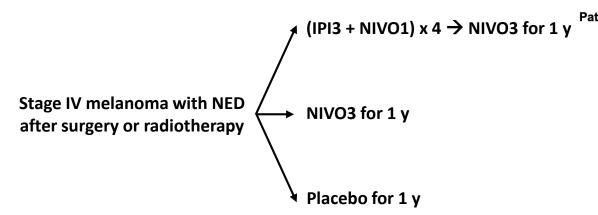
Primary endpoint PFS



Percent alive **9.0** 0.93 HR (90% CI) vs. IPI (0.54, 1.60) OS was not statistically different with nivo+ipi compared to ipi Nivolumab+Ipilimumab (one-sided p-value = 0.408) 0.2 0.01 Months since randomization 23 **Ipilimumab** 69 37 23 2 Nivo+lpi

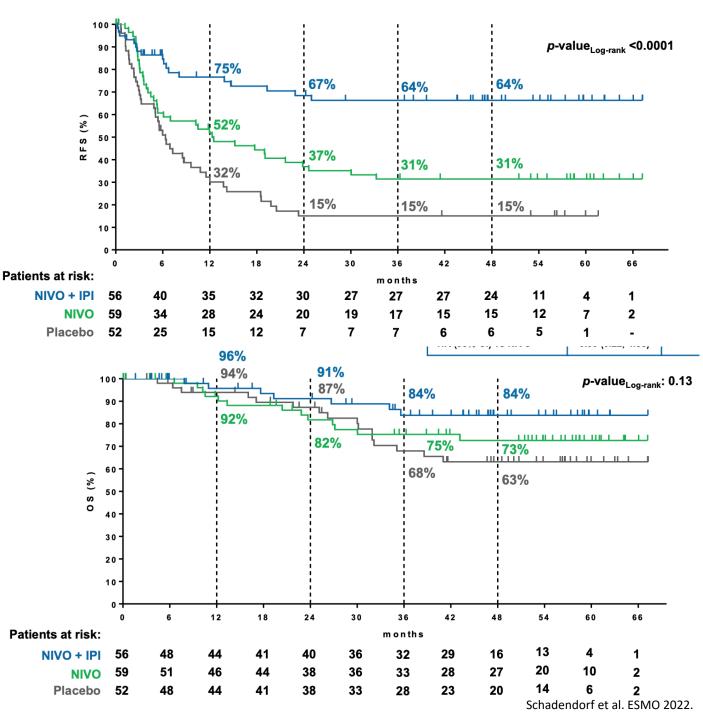
ICI as adjuvant therapy for advanced melanoma

 IMMUNED: adjuvant NIVO or NIVO/IPI versus placebo in stage IV melanoma with NED

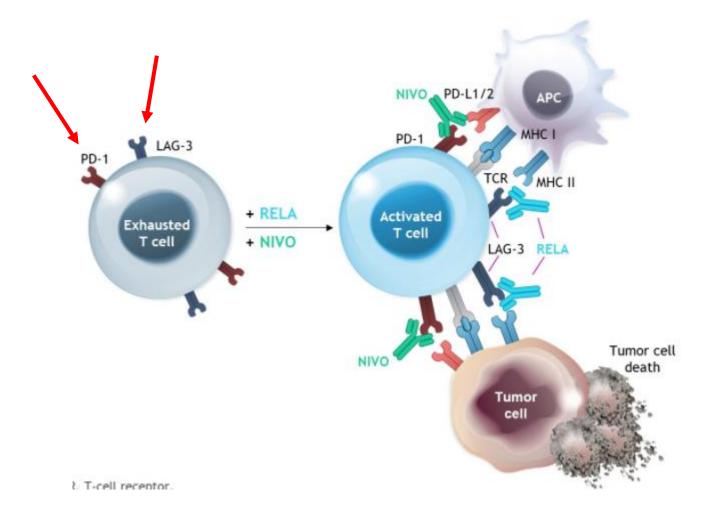


Primary endpoint: RFS

M1a 40% / M1b 29% / M1c 31% 98% <3 metastatic sites



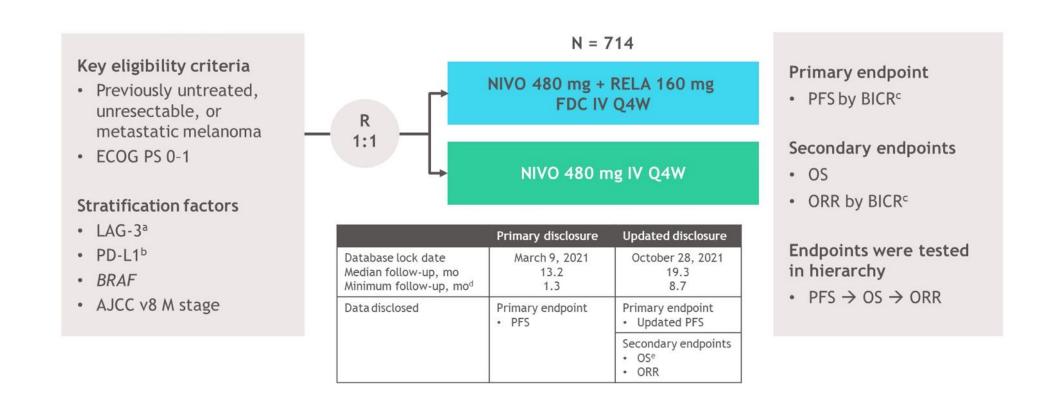
RELATIVITY-047: phase 3 trial of RELA+NIVO versus NIVO in previously untreated advanced melanoma



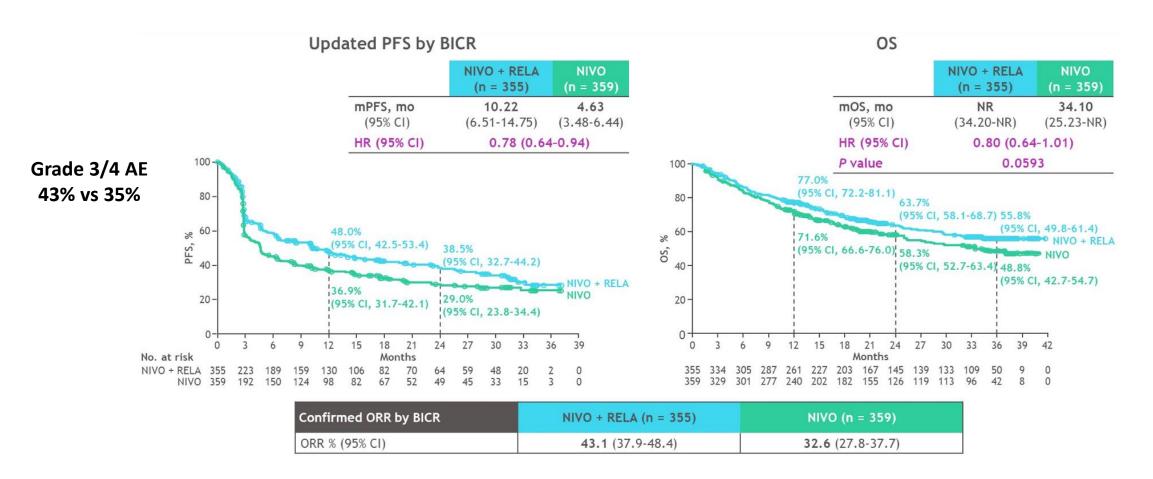
Blockade of LAG-3 (lymphocyteassociated antigen 3) by RELA leads to increased T-cell activation

RELA is investigated in combination with nivolumab (NIVO)

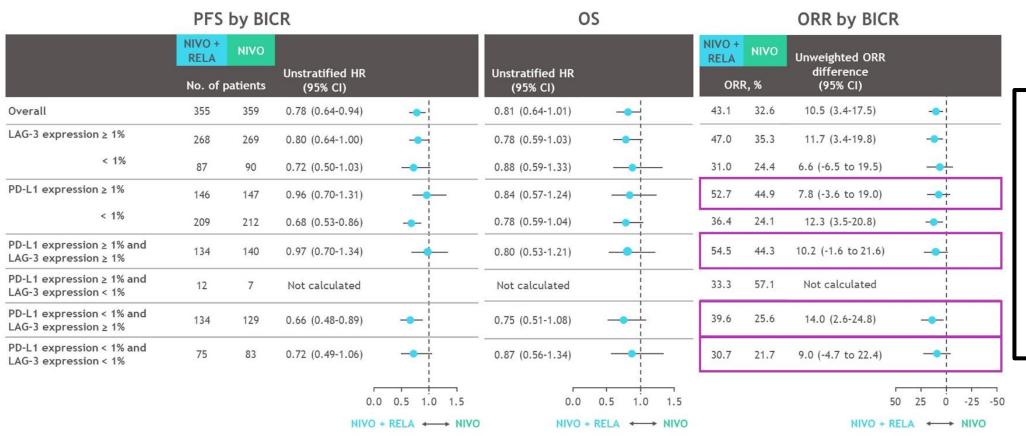
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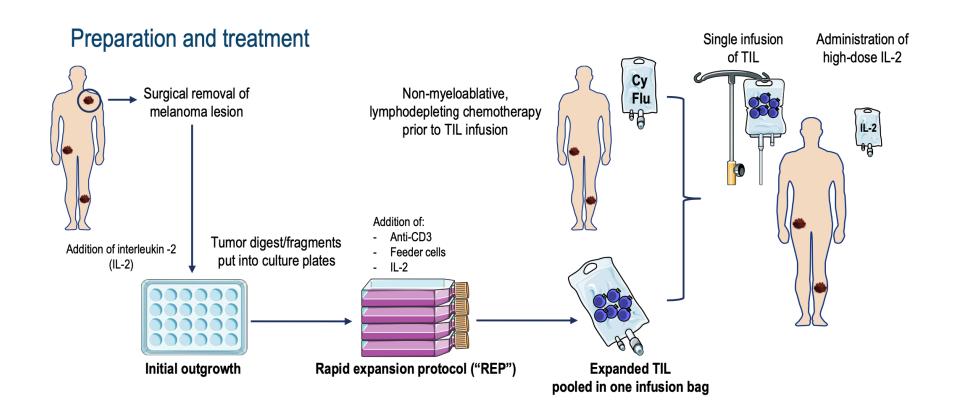


Positive
recommendation of
EMA for the first-line
treatment of
advanced melanoma
in adults and
adolescents 12 years
of age and older with
tumour cell PD-L1
expression < 1%

PFS, OS, and ORR favored NIVO + RELA over NIVO regardless of LAG-3 and PD-L1 expression (stratification factors)

New kid on the block: TIL therapy

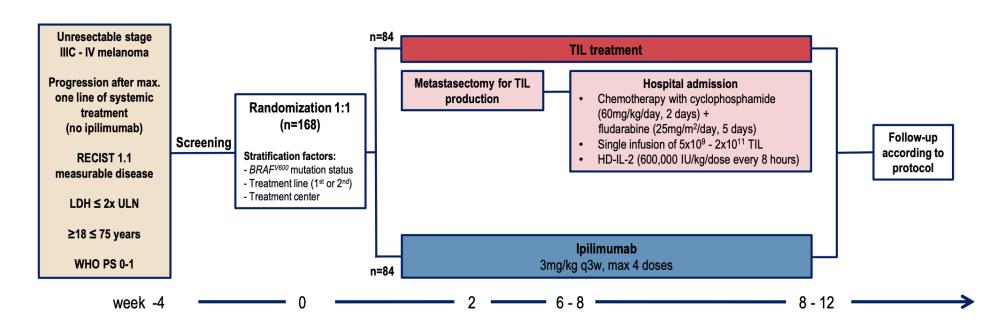
M14TIL: phase 3 trial of tumor-infiltrating lymphocytes (TIL) versus IPI in advanced melanoma



New kid on the block: TIL therapy

• M14TIL: phase 3 trial of tumor-infiltrating lymphocytes (TIL) versus IPI in advanced melanoma

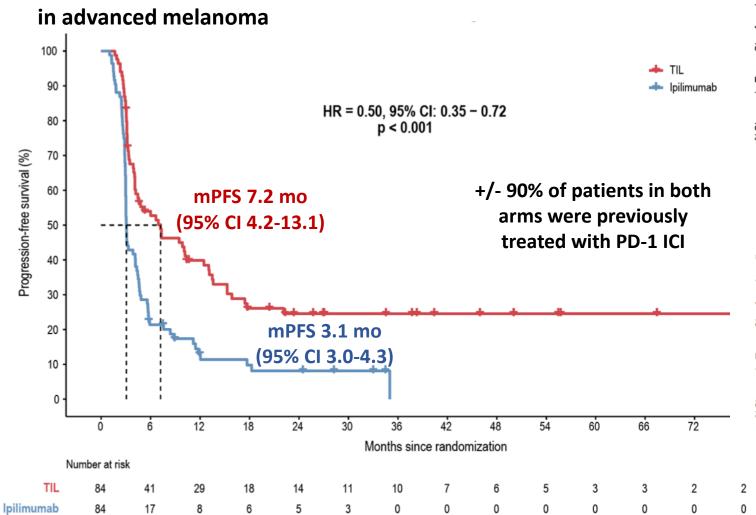
Trial design

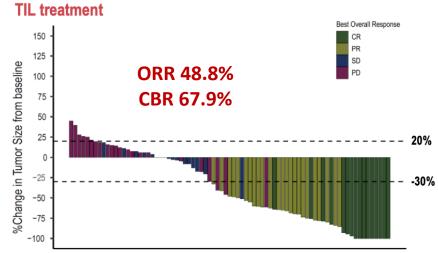


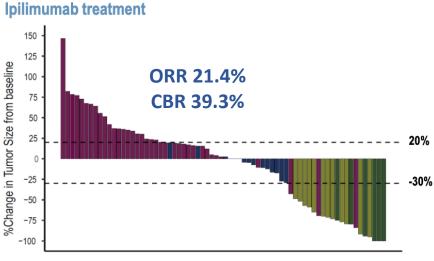
Primary endpoint: Progression-free survival (PFS) according to RECIST 1.1 per investigator review in the intention-to-treat population (ITT)*

New kid on the block: TIL therapy

M14TIL: phase 3 trial of tumor-infiltrating lymphocytes (TIL) versus IPI

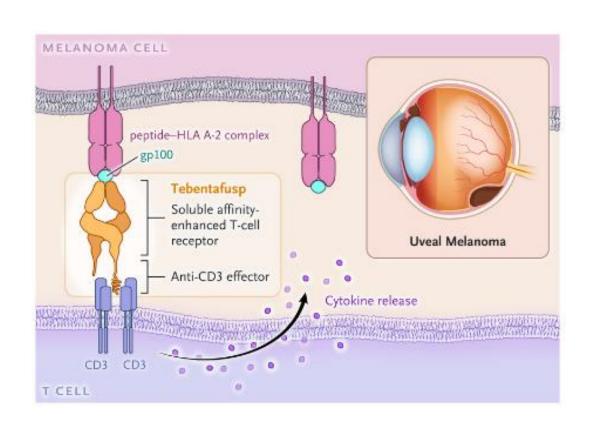


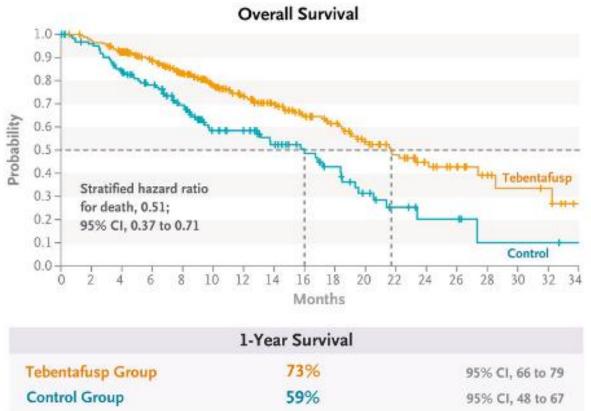




New kid on the block: tebentafusp

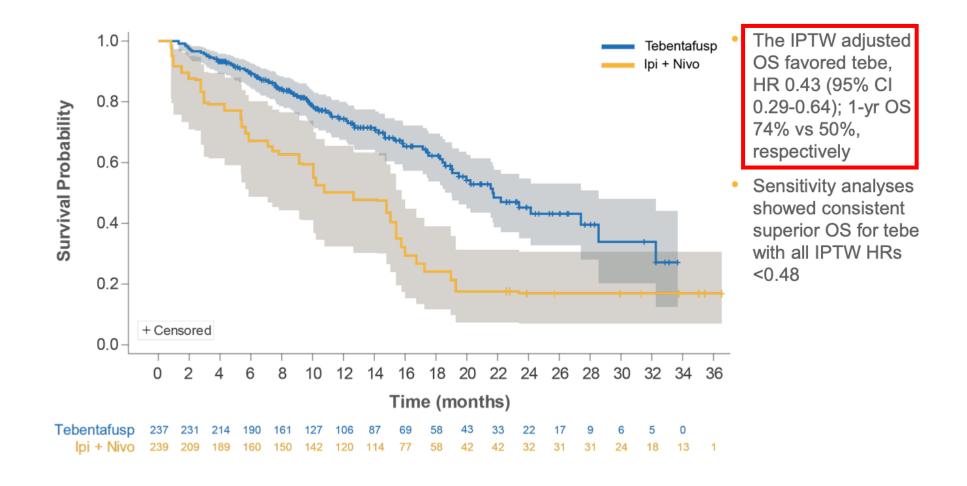
• IMCgp100-202: tebentafusp versus IC (PEMBRO, IPI or DTIC) in HLA-A*02-01 positive uveal melanoma





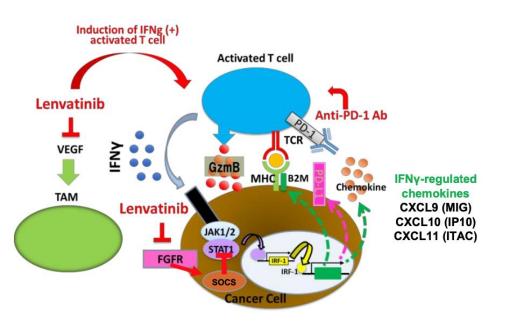
New kid on the block: tebentafusp

• Tebentafusp versus NIVO/IPI in a propensity score analysis



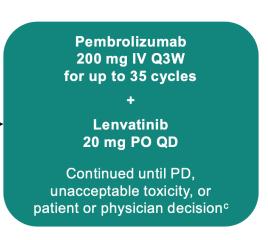
Novel combinations

• <u>LEAP-004</u>: phase 2 trial of PEMBRO + lenvatinib in patients previously treated with PD-(L)1 ICI



Participants

- Unresectable stage III or IV melanomaa
- Confirmed PD per iRECIST¹b on or within 12 wk of last dose of anti–PD-(L)1 given alone or in combination (including with anti–CTLA-4) for ≥2 doses
 - ≤25% with PD on anti–CTLA-4 + anti–PD-(L)1
- No limit to number of previous therapies
- Measurable disease confirmed by blinded, independent central review (BICR)

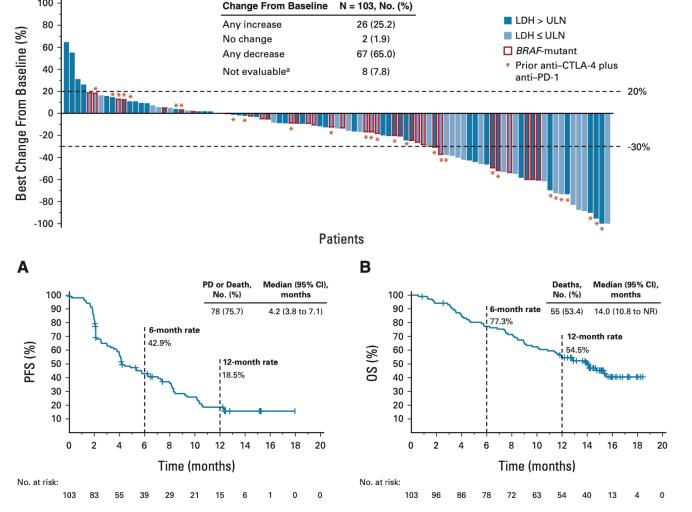


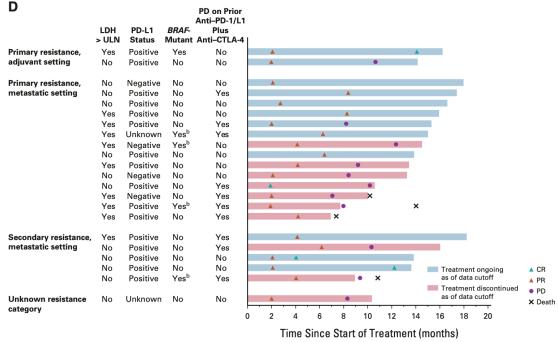
N ≈ 100

Novel combinations

100

LEAP-004: phase 2 trial of PEMBRO + lenvatinib in patients previously treated with PD-(L)1 ICI





ORR 22/103 (21.4%), mDOR 8.3 mo

AE in 96.1% of patients, including 45.6% G3-5

LEAP-003 (phase 3): PEMBRO/LENVA vs PEMBRO/PLB

Conclusions and perspectives

- (Neo)adjuvant management of localized and locoregional melanoma:
 - Neoadjuvant therapy of locoregional melanoma and (in)operable cuSCC with ICI shows interesting results, but needs confirmation in phase 3 trials (PRADO; SWOG S1801)
 - Adjuvant PEMBRO is indicated after resection of stage IIB/C melanoma, but the NNT to prevent 1 recurrence is 14
 (KEYNOTE-716)
- Treatment sequencing in advanced melanoma:

up in terms of RFS (IMMUNED)

- NIVO/IPI followed by dabrafenib/trametinib appears to be the optimal treatment sequence in advanced BRAF^{V600} mutant melanoma (DREAMseq)
- NIVO/IPI is superior to IPI monotherapy after prior failure of PD-1 ICI in terms of ORR and PFS, but not OS, in a phase 2 trial (SWOG S1616)
- Adjuvant therapy of stage IV melanoma with NED after radiotherapy/surgery with NIVO/IPI or NIVO is superior to follow-

Conclusions and perspectives

- Novel immunotherapeutic strategies:
 - Combined blockade of LAG-3 (with RELA) and PD-1 (with NIVO) is superior to NIVO monotherapy in terms of PFS, but not in terms of OS, and is approved by EMA for advanced PD-L1 < 1% melanoma (RELATIVITY-047)
 - TIL therapy is superior to IPI in PD-1 ICI refractory melanoma (M14TIL), but requires a production process which can only be applied in specialized centers (patient selection)
 - Tebentafusp is a new standard-of-care in advanced HLA-A*02-01 positive uveal melanoma (IMCgp100-202)

- Novel treatment combinations :
 - The combination of lenvatinib plus PEMBRO shows promising results in advanced PD-1 ICI refractory melanoma (<u>LEAP-004</u>).
 A phase 3 trial in the first-line setting is underway.



Thank you for your attention!

Questions?

Gil Awada, MD, PhD

Gil.Awada@uzbrussel.be

Gil.Awada@bordet.be

