



Society for Immunotherapy of Cancer

Advances in Cancer Immunotherapy™

Webinar: Clinical Updates

From ESMO Virtual Congress 2020

Thursday, January 7, 2021

12:00-1:00 p.m. ET

Webinar Agenda

12:00-12:05 p.m. ET Overview: Welcome and Introductions

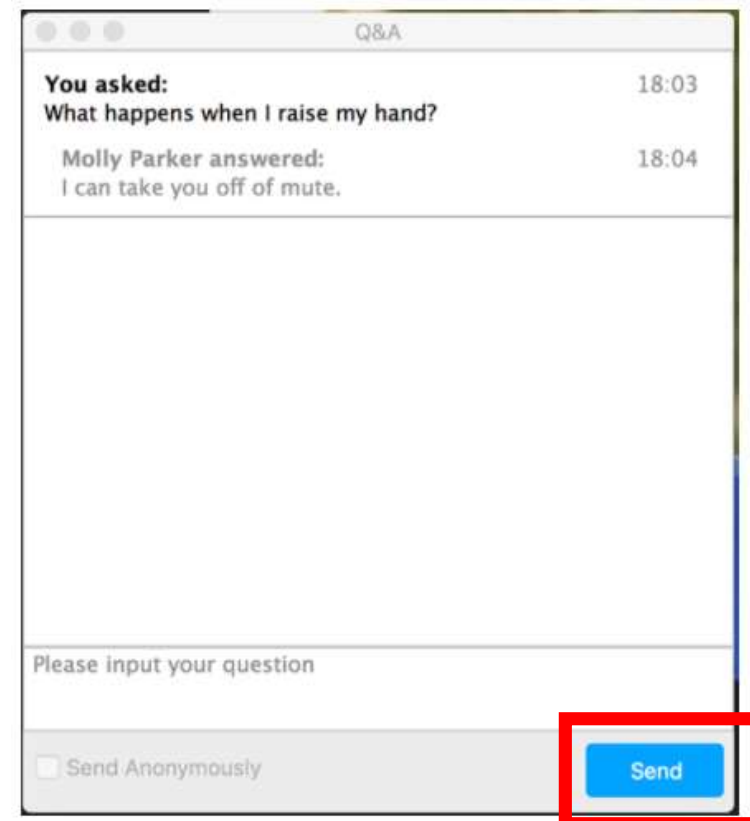
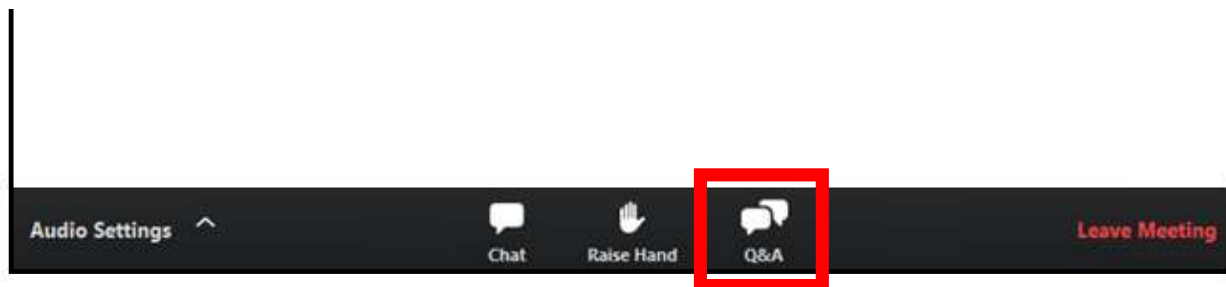
12:05-12:40 p.m. ET Presentations

12:40-12:55 p.m. ET Question and Answer Session

12:55-1:00 p.m. ET Closing Remarks

How to Submit Questions

- Click the “Q&A” icon located on at the bottom of your Zoom control panel
- Type your question in the Q&A box, then click “Send”
- Questions will be answered in the Question & Answer session at the end of the webinar (as time permits)



Webinar Faculty



Lillian Siu, MD – Princess Margaret Cancer Center



Toni Choueiri, MD – Dana-Farber Cancer Institute



Sumanta Pal, MD – City of Hope



Jeffery Weber, MD, PhD – NYU Langone Medical Center

Learning objectives

Upon completion of this webinar, participants will be able to:

- Describe advances in immune checkpoint inhibitor therapies for highly immunotherapy-responsive cancers including melanoma and renal cell carcinoma
- Outline novel immunotherapeutic strategies and implications for future cancer care
- Explain the rationale behind and implications of current combination immunotherapy studies

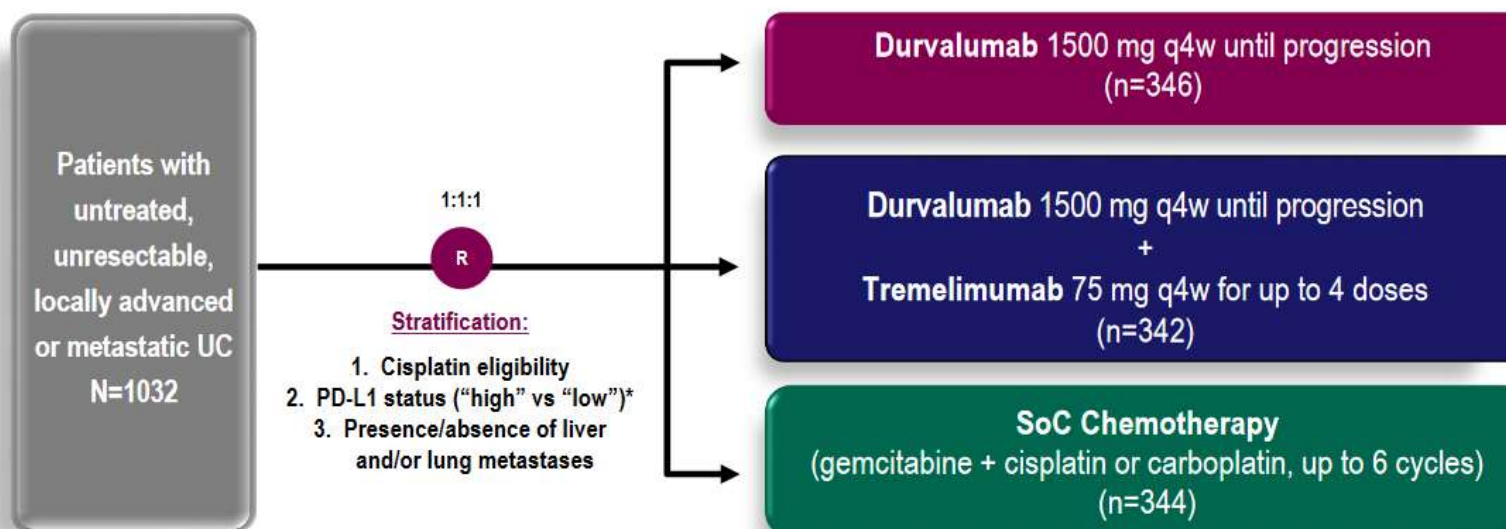
Webinar outline

- Genitourinary cancers
- Melanoma
- Head and neck cancer
- Gastrointestinal cancer
- Novel agents

A phase 3, randomized, open-label study of first-line durvalumab with or without tremelimumab in patients with unresectable, locally advanced or metastatic urothelial carcinoma (DANUBE)

Thomas Powles, Michiel S. van der Heijden, Daniel Castellano, Yohann Loriot, Matthew D. Galsky, Daniel P. Petrylak, Osamu Ogawa, Se Hoon Park, Andrea Necchi, Jae-Lyun Lee, Ugo De Giorgi, Martin Bögemann, Aristotelis Bamias, André P. Fay, Ignacio Duran, Natasha Angra, Ashok K. Gupta, Philip He, Wendy Levin, Joaquim Bellmunt

Study design



CO-PRIMARY ENDPOINTS

- OS (D vs SoC in PD-L1 high)
- OS (D+T vs SoC in all comers)

SELECT SECONDARY ENDPOINTS

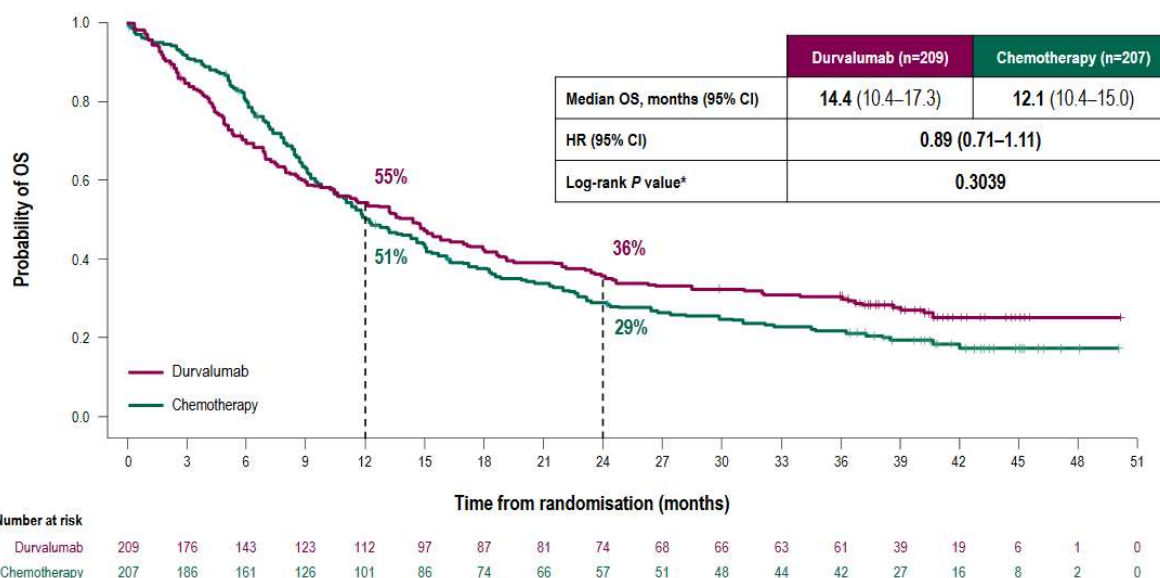
- OS (D vs SoC in all comers)
- OS (D+T vs SoC in PD-L1 high)
- PFS, ORR, and DoR

Data cutoff date (final analysis):
January 27, 2020

Minimum follow-up from date last patient randomised:
34 months

Median follow-up for survival:
41.2 months for all patients

Co-primary endpoint – OS in PD-L1-high population



Co-primary #1 population

Co-primary #2 population

Objective response rate*

Cisplatin eligible

Cisplatin ineligible

Best objective response*

Complete response

Partial response

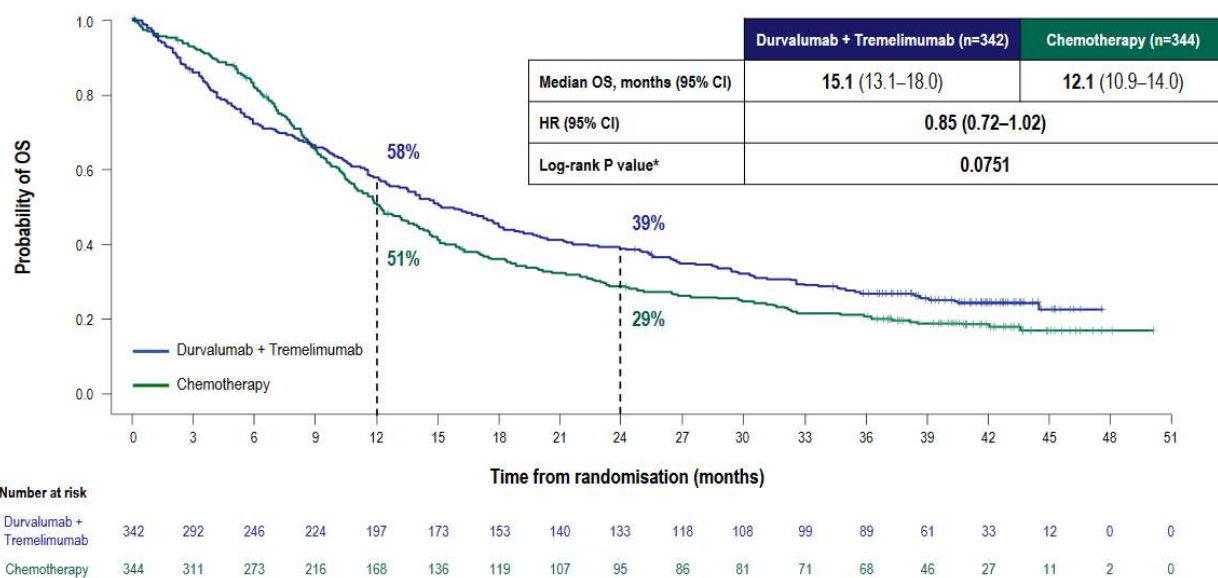
Stable disease ≥8 weeks

Progressive disease

Median duration of response*, months (95% CI)

PD-L1-High Population		
Durvalumab n=209	Durvalumab + Tremelimumab n=205	Chemotherapy n=207
28%	47%	48%
29% (34/117)	47% (54/115)	50% (56/113)
26% (24/92)	47% (42/90)	47% (44/94)
10%	12%	7%
18%	35%	41%
21%	18%	23%
51%	34%	20%
18.5 (7.6–NE)	10.0 (7.4–18.7)	5.8 (5.1–7.0)

Co-primary endpoint – OS in ITT



Co-primary #1 population

Co-primary #2 population

Objective response rate*

Cisplatin eligible

Cisplatin ineligible

Best objective response*

Complete response

Partial response

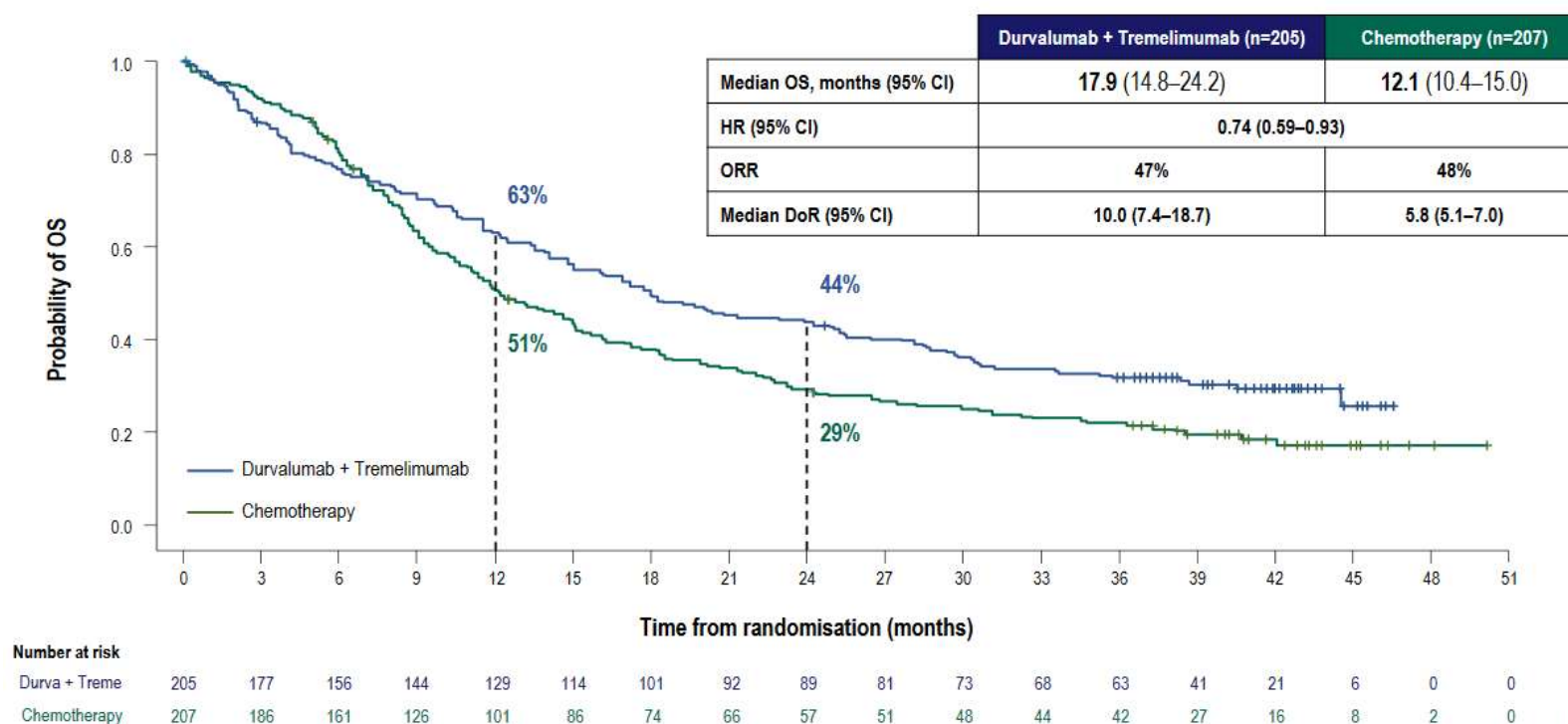
Stable disease ≥8 weeks

Progressive disease

Median duration of response*, months (95% CI)

ITT Population		
Durvalumab n=346	Durvalumab + Tremelimumab n=342	Chemotherapy n=344
26%	36%	49%
27% (53/197)	37% (71/194)	51% (99/193)
24% (36/149)	36% (53/148)	46% (70/151)
8%	8%	6%
18%	28%	43%
20%	19%	23%
53%	42%	18%
9.3 (5.8–20.5)	11.1 (7.9–18.5)	5.7 (5.6–6.2)

Combination treatment in PD-L1-high population



Safety summary

	Durvalumab n=345	Durvalumab + Tremelimumab n=340	Chemotherapy n=313
Treatment-related AEs			
Any grade	56%	75%	90%
Grade 3 or 4	14%	28%	60%
Grade 5	1%	1%	<1%
Treatment-related serious AEs	9%	23%	16%
Treatment-related AEs leading to discontinuation	6%	16%	12%
Treatment-related AEs of special interest*			
Any grade	26%	49%	15%
Grade 3 or 4	6%	12%	2%
Systemic corticosteroid use	11%	26%	1%

*Excluding infusion/hypersensitivity reactions.

Nivolumab plus cabozantinib versus sunitinib in first-line treatment for advanced renal cell carcinoma: first results from the randomized phase 3 CheckMate 9ER trial

Toni K. Choueiri, Thomas Powles, Mauricio Burotto, Maria T. Bourlon, Bogdan Zurawski, Víctor Manuel Oyervides Juárez, James J. Hsieh, Umberto Basso, Amishi Y. Shah, Cristina Suarez, Alketa Hamzaj, Carlos Barrios, Martin Richardet, David Pook, Yoshihiko Tomita, Bernard Escudier, Joshua Zhang, Burcin Simsek, Andrea B. Apolo, Robert J. Motzer

Study design

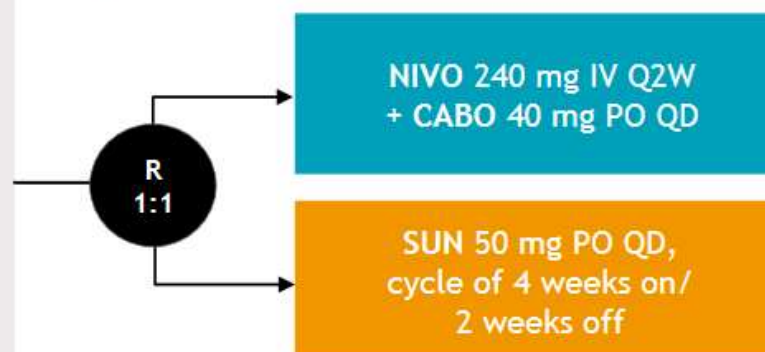
N = 651

Key inclusion criteria^{1,2}

- Previously untreated advanced or metastatic RCC
- Clear cell component
- Any IMDC risk group

Stratification factors:

- IMDC risk score
- Tumor PD-L1 expression^a
- Geographic region



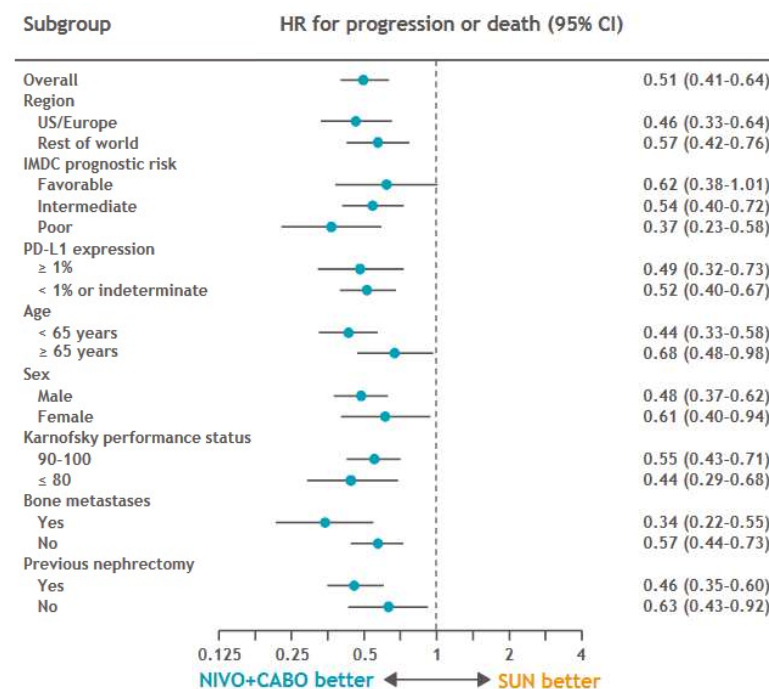
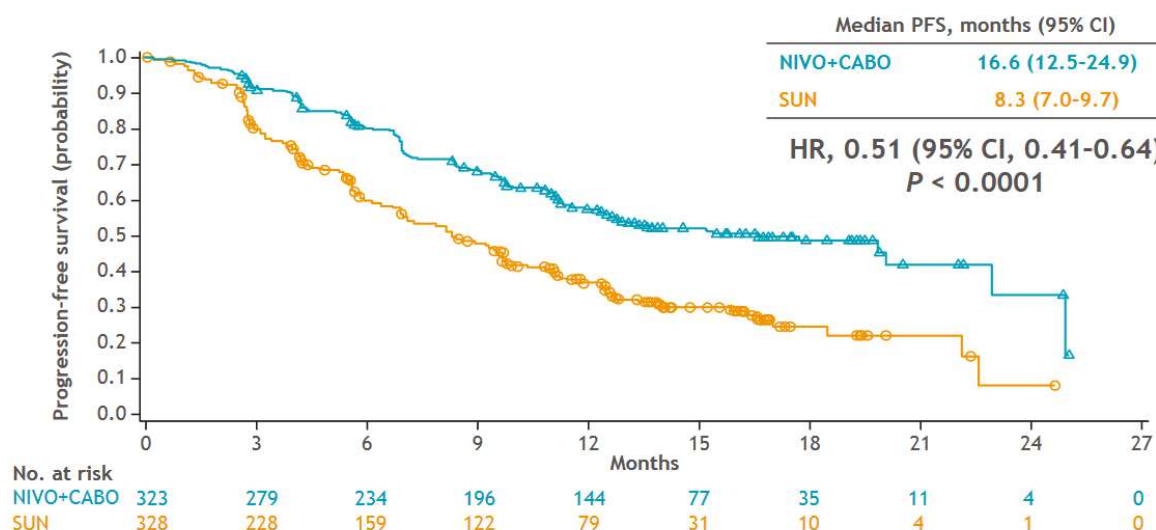
Treat until RECIST v1.1-defined progression or unacceptable toxicity^b

Median study follow-up, 18.1 months (range, 10.6-30.6 months)

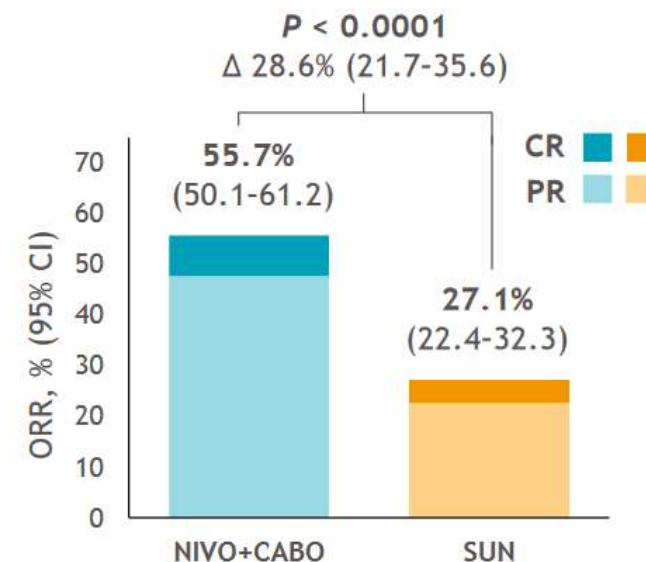
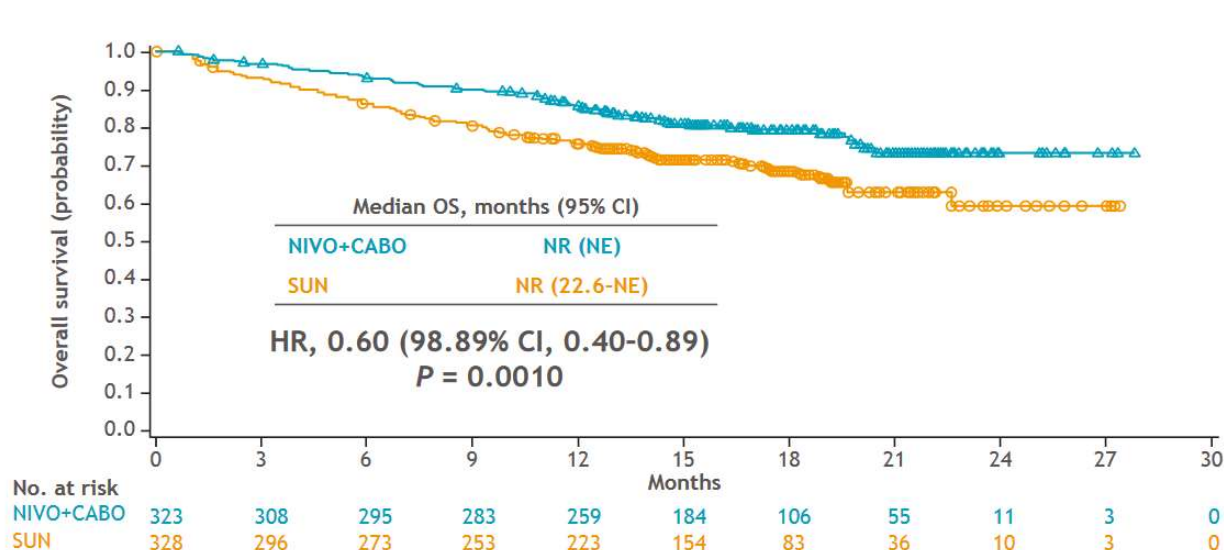
Primary endpoint: PFS

Secondary endpoints: OS, ORR, and safety

Primary endpoint: PFS



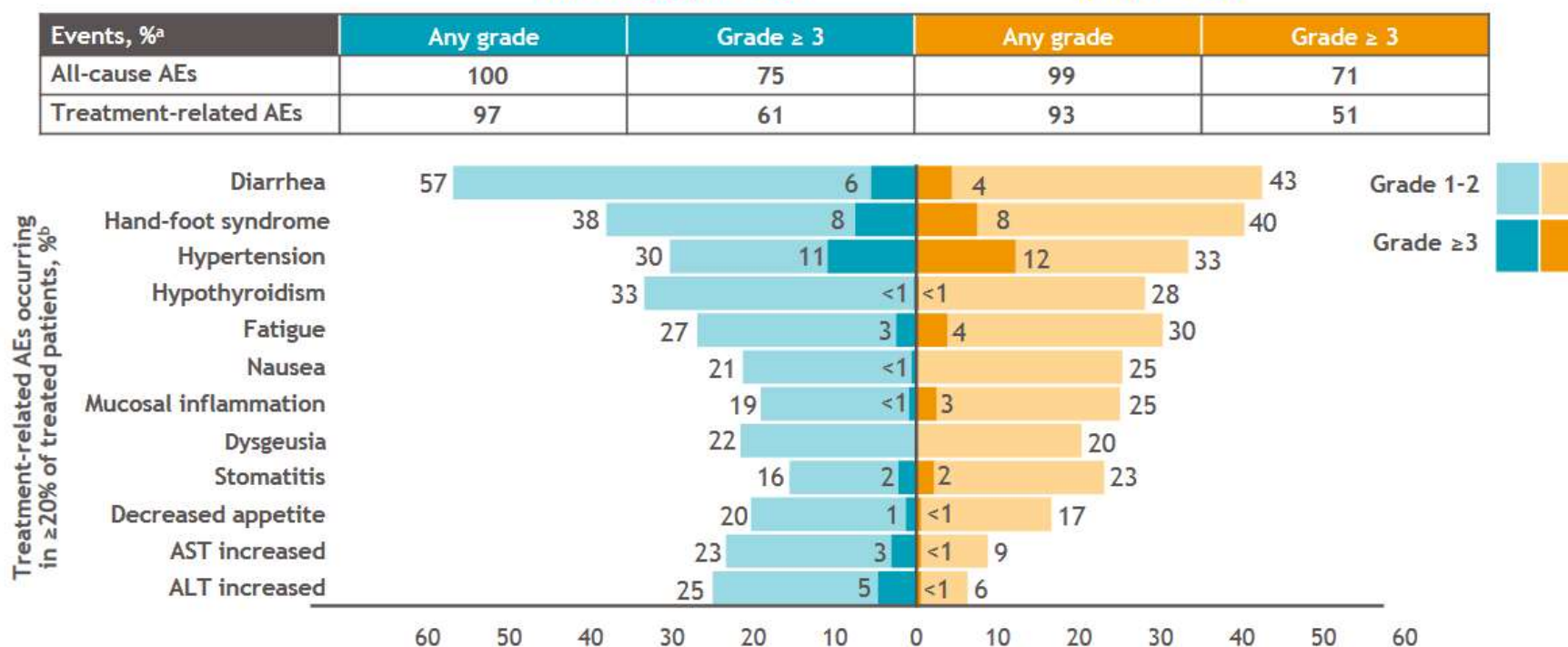
Secondary endpoints: OS and ORR



Safety summary

NIVO+CABO, n = 320

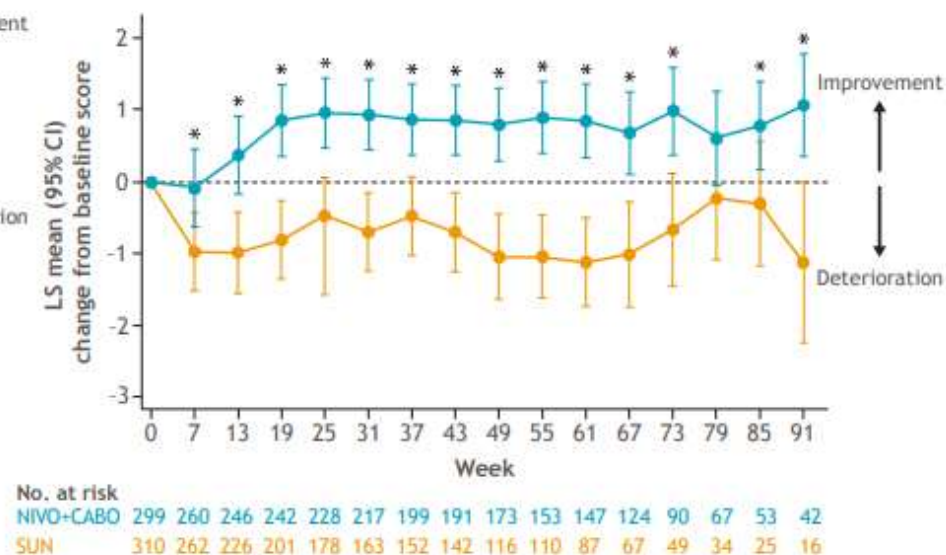
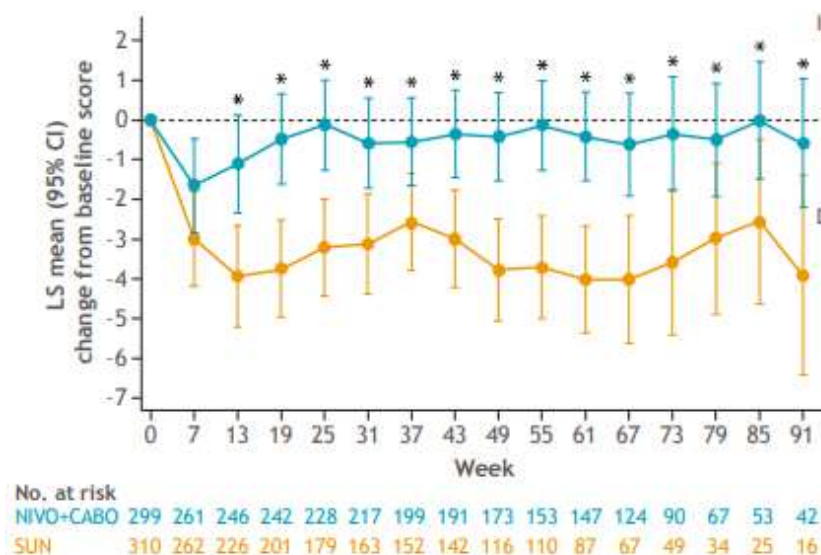
SUN, n = 320



Health-related quality of life

FKSI-19: Total Score

FKSI: Disease-Related Symptom Subscale



Cabozantinib in combination with atezolizumab as first-line therapy for advanced clear-cell renal cell carcinoma: results from the COSMIC-021 study

Sumanta Pal, Che-Kai Tsao, Cristina Suarez, William Kelly,
Lance Pagliaro, Ulka Vaishampayan, Yohann Loriot, Sandy
Srinivas, Bradley McGregor, Ashok Panneerselvam, Dominic
Curran, Toni K. Choueiri, Neeraj Agarwal

Study design

Expansion Cohorts

April 2018*

Cabozantinib 40 mg QD PO +
Atezolizumab 1200 mg Q3W IV
(N=30)

January 2019*

Cabozantinib 60 mg QD PO +
Atezolizumab 1200 mg Q3W IV
(N=30)

Advanced or metastatic ccRCC

- No prior systemic therapy for RCC
- Measurable disease per RECIST v1.1
- ECOG PS 0 or 1

Tumor assessments per RECIST v1.1 by the investigator every 6 weeks for the first year and every 12 weeks thereafter; treatment until loss of clinical benefit or intolerable toxicity.

- 10 patients with previously untreated ccRCC were enrolled in the dose-escalation phase (4 at a dose level of 40 mg and 6 at a dose level of 60 mg)
- Data are presented for all 70 ccRCC patients with a data cutoff of July 21, 2020 and a median follow-up of 25.8 months (range, 20-33) for the 40 mg dose group and 15.3 months (range, 10-32) for the 60 mg dose group

Primary Endpoint: ORR by the investigator per RECIST v1.1

Secondary Endpoint: Safety

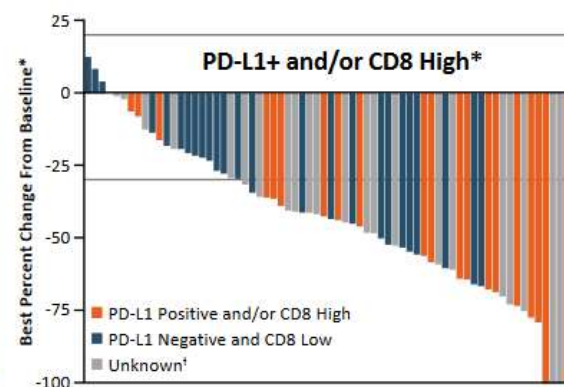
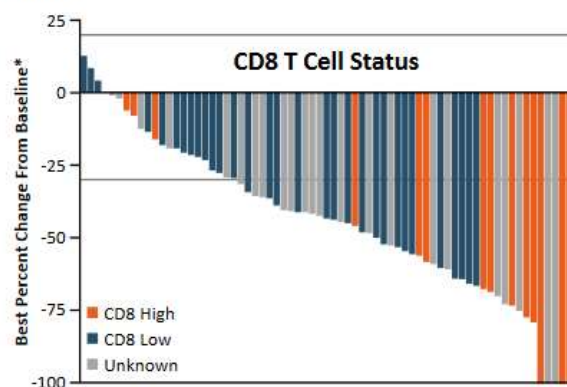
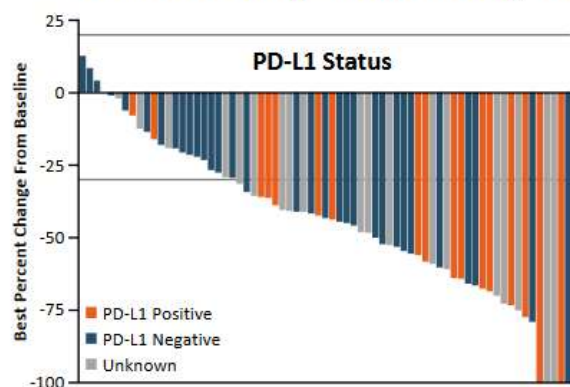
Exploratory endpoints include PFS and correlations of biomarkers with outcomes

Primary endpoint: response rate

	Cabozantinib 40 mg + Atezolizumab 1200 mg (N=34)	Cabozantinib 60 mg + Atezolizumab 1200 mg (N=36)
Objective response rate (80% CI), %	53 (41–65)	58 (46–70)
Best overall response, n (%)		
Complete response	1 (3)	4 (11)
Partial response	17 (50)	17 (47)
Stable disease	14 (41)	12 (33)
Progressive disease	2 (6)	2 (6)
Missing	0	1 (3)
Disease control rate,* %	94	92
Duration of response, median (range), mo	NE (12.4–NE)	15.4 (8.1–NE)
Time to objective response, median (range), mo	1.4 (1–19)	1.5 (1–7)

Correlative studies

Best Percent Change in Tumor Target Lesions



Best Overall Response

PD-L1 Status (SP142 CPS)	CR or PR N (%)	SD or PD N (%)	p value‡
Positive	15 (88%)	2 (12%)	0.001
Negative	13 (39%)	20 (61%)	

CD8 T Cell Status	CR or PR N (%)	SD or PD N (%)	p value‡
High	11 (79%)	3 (21%)	0.05
Low	14 (44%)	18 (56%)	

PD-L1+ and/or CD8 High	CR or PR N (%)	SD or PD N (%)	p value‡
Positive or High	18 (86%)	3 (14%)	0.0003
Negative and Low	8 (31%)	18 (69%)	

Adverse events

	Cabozantinib 40 mg + Atezolizumab 1200 mg (N=34)		Cabozantinib 60 mg + Atezolizumab 1200 mg (N=36)	
	Any Grade	Grade 3/4	Any Grade	Grade 3/4
Any AE, n (%)	33 (97)	24 (71)	36 (100)	24 (67)
Diarrhea	23 (68)	3 (9)	24 (67)	7 (19)
Fatigue	22 (65)	2 (6)	20 (56)	2 (6)
Nausea	14 (41)	0	16 (44)	1 (3)
Dysgeusia	12 (35)	0	21 (58)	0
Hypertension	12 (35)	8 (24)	12 (33)	5 (14)
ALT increased	11 (32)	1 (3)	12 (33)	5 (14)
PPE	10 (29)	0	20 (56)	0
Stomatitis	10 (29)	0	10 (28)	0
AST increased	9 (26)	0	14 (39)	2 (6)
Hypophosphatemia	9 (26)	5 (15)	3 (8)	1 (3)
Decreased appetite	8 (24)	0	19 (53)	0
Pruritus	8 (24)	1 (3)	5 (14)	0
Hypothyroidism	6 (18)	0	10 (28)	0
Weight Decreased	6 (18)	0	9 (25)	1 (3)
Lipase Increased	5 (15)	1 (3)	8 (22)	3 (8)
Mucosal inflammation	4 (12)	0	8 (22)	2 (6)
Proteinuria	2 (6)	0	8 (22)	1 (3)

GU summary and trends

- **Urothelial Cancer (DANUBE Trial):**
 - No statistical benefit for co-primary endpoints of OS in 1L mUC:
 - Durvalumab vs. chemo in PD-L1 +
 - Durvalumab + Tremelimumab in all comers
 - Results from phase III Nivolumab+ Ipilimumab (Nivo+Ipi) vs. Chemotherapy (CheckMate901) are pending.
- **Renal Cell Carcinoma (CHECKMATE 9ER, COSMIC 021):**
 - Cabozantinib + Nivolumab improved PFS, OS, ORR and QOL over sunitinib in 1L metastatic ccRCC of all IMDC risk groups -> potential new standard 1st line.
 - Cabozantinib + Nivo/Ipi vs. Nivo/Ipi phase III trial in intermediate/poor risk is ongoing (COSMIC-313)
 - Cabozantinib + Atezolizumab is clinically active and safe in metastatic ccRCC
 - Phase III of cabozantinib +/- atezolizumab in RCC previously treated with immune checkpoint inhibitors is ongoing (CONTACT-03)

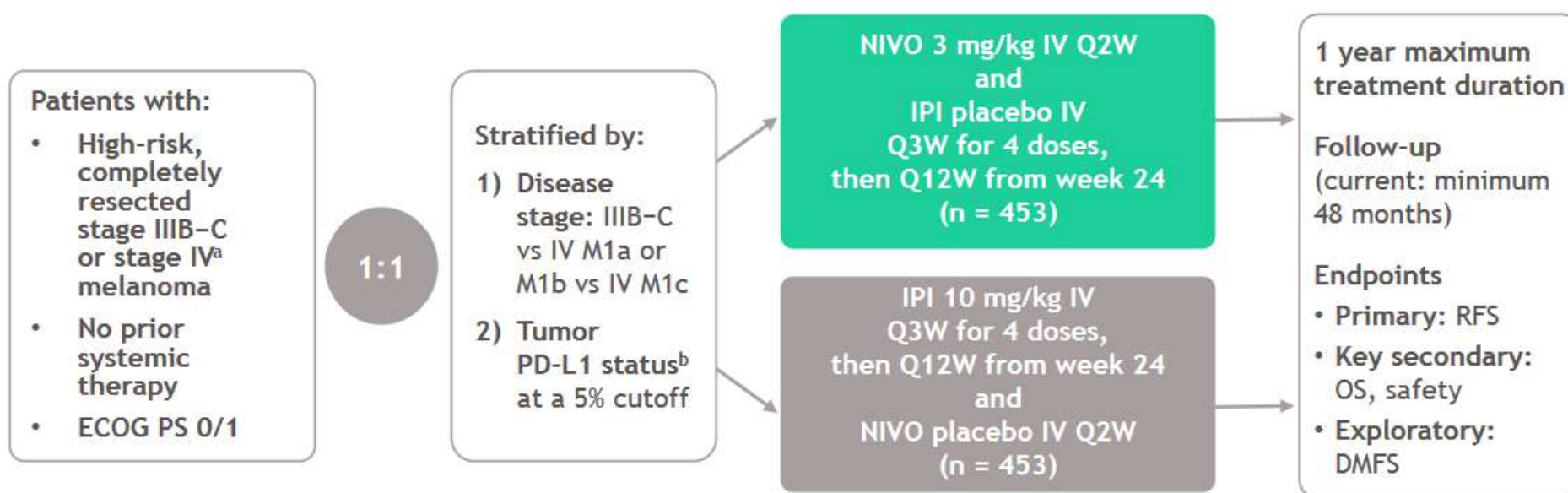
Webinar outline

- Genitourinary cancers
- **Melanoma**
- Head and neck cancer
- Gastrointestinal cancer
- Novel agents

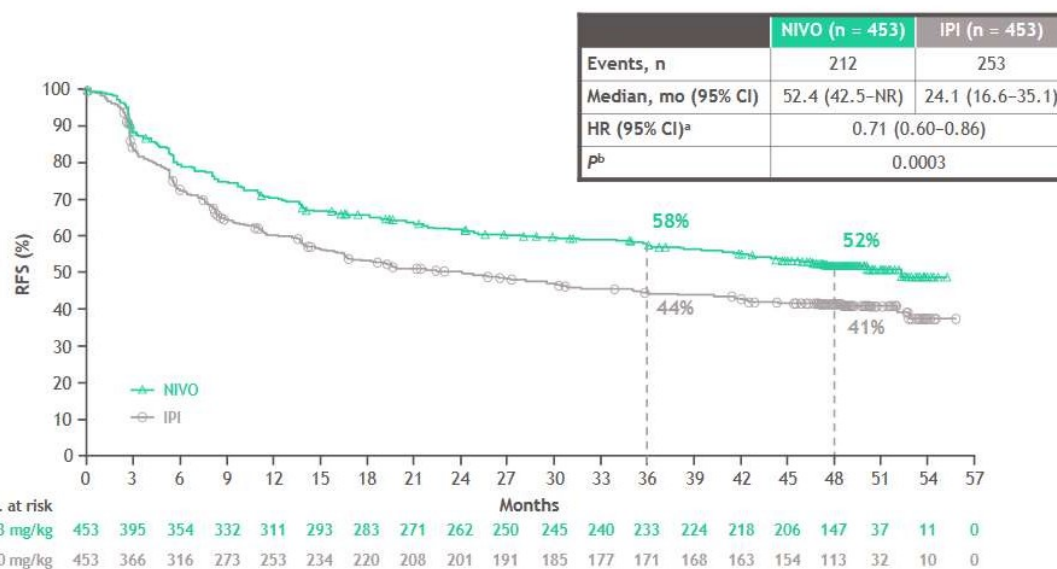
Adjuvant nivolumab vs ipilimumab in resected stage III/IV melanoma: 4-year recurrence-free and overall survival results from CheckMate 238

Jeffrey Weber, Michele Del Vecchio, Mario Mandalá, Helen Gogas, Ana M. Arance, Stephane Dalle, C. Lance Cowey, Michael Schenker, Jean-Jacques Grob, Vanna Chiarion-Sileni, Iván Márquez-Rodas, Marcus O. Butler, Michele Maio, Mark R. Middleton, Luis de la Cruz-Merino, Maurice Lobo, Veerle de Pril, James Larkin, Paolo A. Ascierto

Study design



Primary endpoint: 48-month RFS

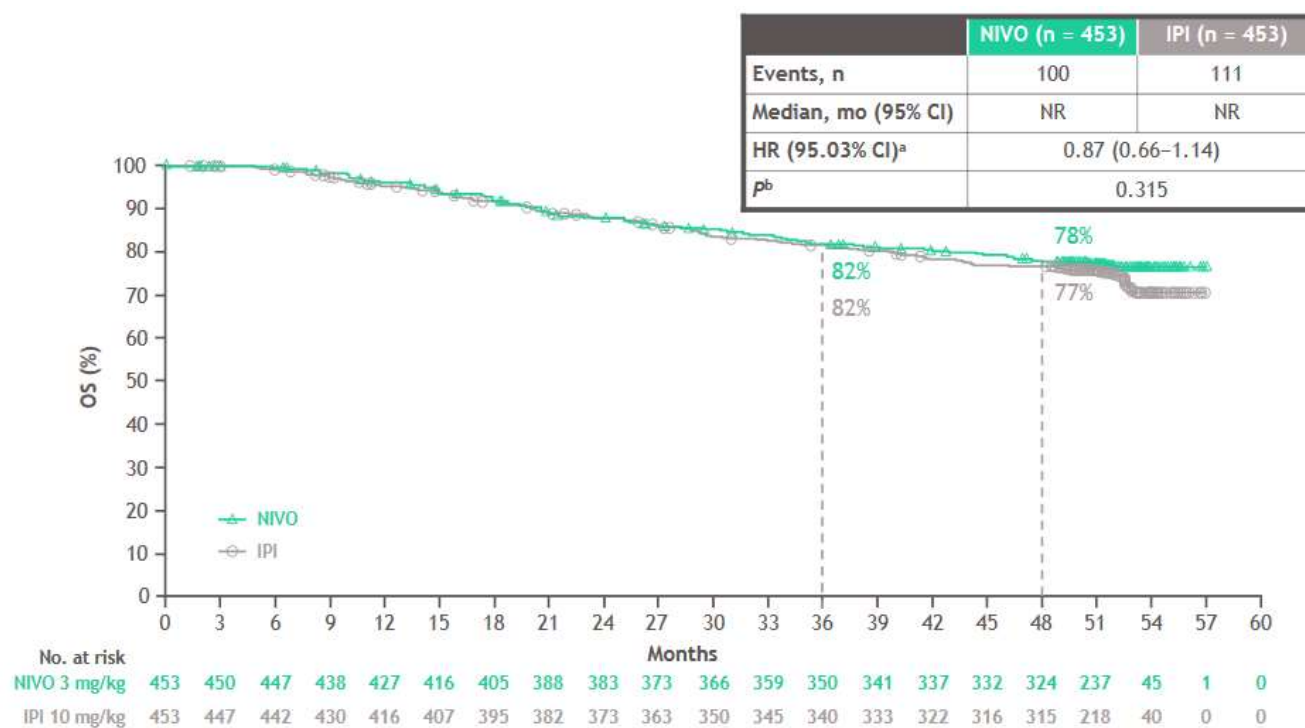


Subgroup		Unstratified HR (95% CI)	Unstratified HR (95% CI)
Overall	Overall	0.72 (0.60–0.86)	
Age	< 65 years	0.72 (0.58–0.89)	
	≥ 65 years	0.72 (0.51–1.00)	
Sex	Male	0.74 (0.59–0.93)	
	Female	0.69 (0.52–0.93)	
Stage	IIIB	0.70 (0.50–0.98)	
	IIIC	0.74 (0.57–0.96)	
	IV M1a–M1b	0.65 (0.41–1.03)	
	IV M1c	1.13 (0.44–2.93)	
	Not reported	–	
Stage III: ulceration	Absent	0.65 (0.49–0.86)	
	Present	0.79 (0.58–1.07)	
	Not reported	0.55 (0.17–1.74)	
Stage III: lymph node involvement	Microscopic	0.71 (0.50–1.00)	
	Macroscopic	0.75 (0.58–0.97)	
	Not reported	0.47 (0.19–1.13)	
Tumor PD-L1 status ^a	< 5% or indeterminate	0.74 (0.59–0.91)	
	≥ 5%	0.67 (0.47–0.96)	
BRAF mutation status	Positive	0.79 (0.60–1.05)	
	Negative	0.69 (0.53–0.91)	
	Not reported	0.66 (0.38–1.12)	

0.25 0.5 1 2

Favors NIVO ← → Favors IPI

Secondary endpoint: 48-month OS



Late-emergent TRAEs

TRAE ^a	Nivolumab (n = 452), n (%)		Ipilimumab (n = 453), n (%)	
	Any grade	Grade 3-4	Any grade	Grade 3-4
Any	18 (4.0)	3 (0.7)	25 (5.5)	7 (1.5)
Arthralgia	2 (0.4)	0	1 (0.2)	0
Colitis	2 (0.4)	0	2 (0.4)	2 (0.4)
Diabetic ketoacidosis	1 (0.2)	1 (0.2)	0	0
Diarrhea	1 (0.2)	1 (0.2)	4 (0.9)	1 (0.2)
Maculopapular rash	1 (0.2)	0	2 (0.4)	1 (0.2)
Pneumonitis	1 (0.2)	1 (0.2)	0	0
Pruritus	1 (0.2)	0	3 (0.7)	0
Vitiligo	1 (0.2)	0	2 (0.4)	0
Fatigue	0	0	2 (0.4)	0
Increased lipase	0	0	2 (0.4)	1 (0.2)
Pyrexia	0	0	2 (0.4)	0
Bone marrow failure	0	0	1 (0.2)	1 (0.2)
Immune thrombocytopenic purpura	0	0	1 (0.2)	1 (0.2)
Rash	0	0	1 (0.2)	1 (0.2)
Secondary adrenocortical insufficiency	0	0	1 (0.2)	1 (0.2)

As reported previously, at 18 months of follow-up, all patients had been off study treatment for > 100 days; grade 3-4 TRAEs were reported in 14.4% patients treated with NIVO and 45.9% patients treated with IPI¹

Lenvatinib Plus Pembrolizumab For Advanced Melanoma That Progressed on a PD-1 or PD-L1 Inhibitor: Initial Results of LEAP-004

Ana Arance, Steven J. O'Day, Luis de la Cruz Merino, Teresa M. Petrella, Rahima Jamal, Lars Ny, Ana Carneiro, Alfonso Berrocal, Ivan Márquez-Rodas, Anna Spreafico, Victoria Atkinson, Fernanda Costa Svedman, Alan D. Smith, Ke Chen, Scott J. Diede, Clemens Krepler, Georgina V. Long

Study design

Participants

- Unresectable stage III or IV melanoma^a
- Confirmed PD per iRECIST^{1b} 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
 - $\leq 25\%$ 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 \approx 100

Pembrolizumab
200 mg IV Q3W
for up to 35 cycles

+

Lenvatinib
20 mg PO QD

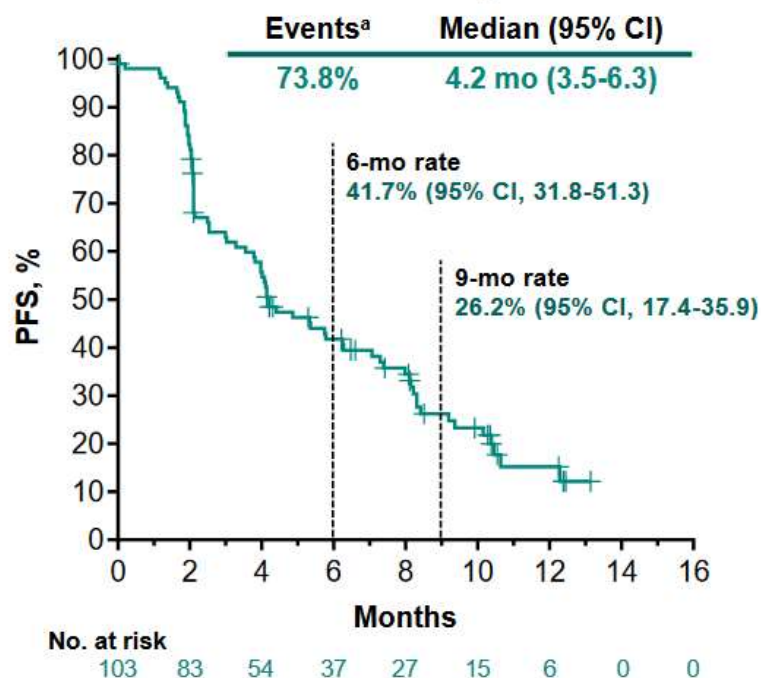
Continued until PD,
unacceptable toxicity, or
patient or physician decision^c

Primary endpoint: ORR

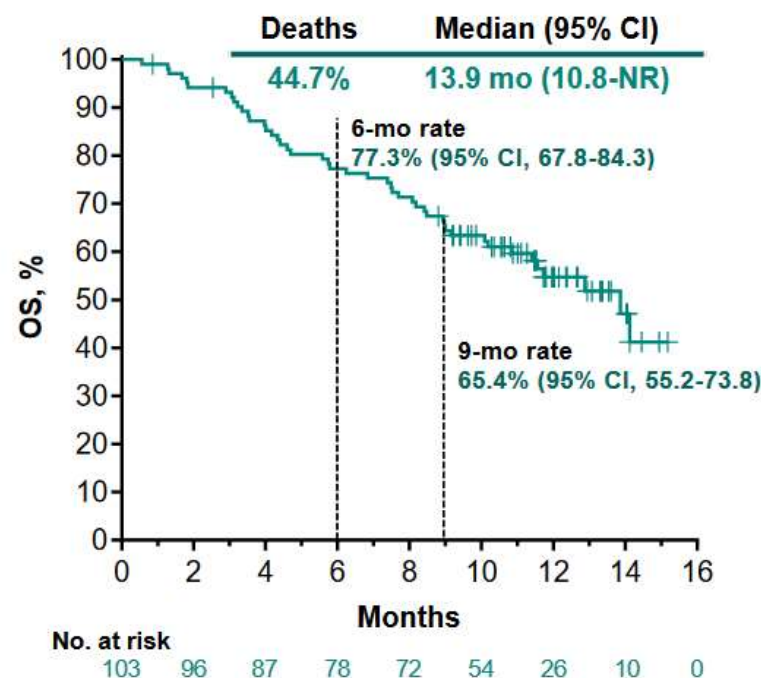
	Total Population N = 103	PD on Prior Anti-CTLA-4 + Anti-PD-(L)1	
		Yes n = 29	No n = 74
ORR, % (95% CI)	21.4% (13.9-30.5)	31.0% (15.3-50.8)	17.6% (9.7-28.2)
DCR, % (95% CI)	65.0% (55.0-74.2)	62.1% (42.3-79.3)	66.2% (54.3-76.8)
Best overall response, n (%)			
CR	2 (1.9%)	1 (3.4%)	1 (1.4%)
PR	20 (19.4%)	8 (27.6%)	12 (16.2%)
SD	45 (43.7%)	9 (31.0%)	36 (48.6%)
PD	31 (30.1%)	10 (34.5%)	21 (28.4%)
Not assessed ^a	5 (4.9%)	1 (3.4%)	4 (5.4%)

Secondary endpoints: PFS and OS

BICR-Assessed PFS by RECIST v1.1



OS



Adverse events

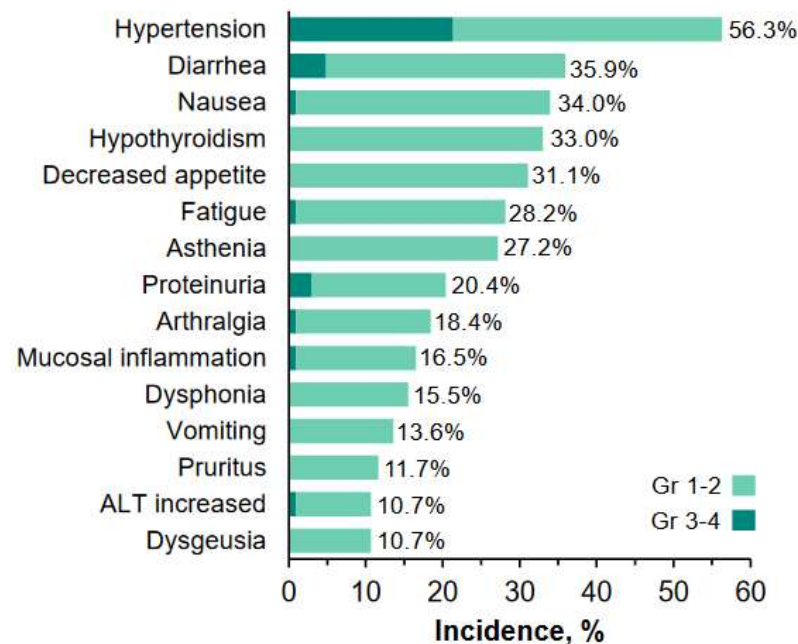
Summary

n (%)	N = 103
Any grade	99 (96.1%)
Grade 3-5	46 (44.7%)
Grade 3	41 (39.8%)
Grade 4	4 (3.9%)
Grade 5	1 (1.0%) ^a
Serious	19 (18.4%)
Led to discontinuation ^b	8 (7.8%)
Led to interruption ^b	61 (59.2%)
Led to len dose reduction	55 (53.4%)

Median (range) duration of treatment

- 6.0 mo (4 d-14.9 mo) for len
- 5.5 mo (1 d-14.5 mo) for pembro

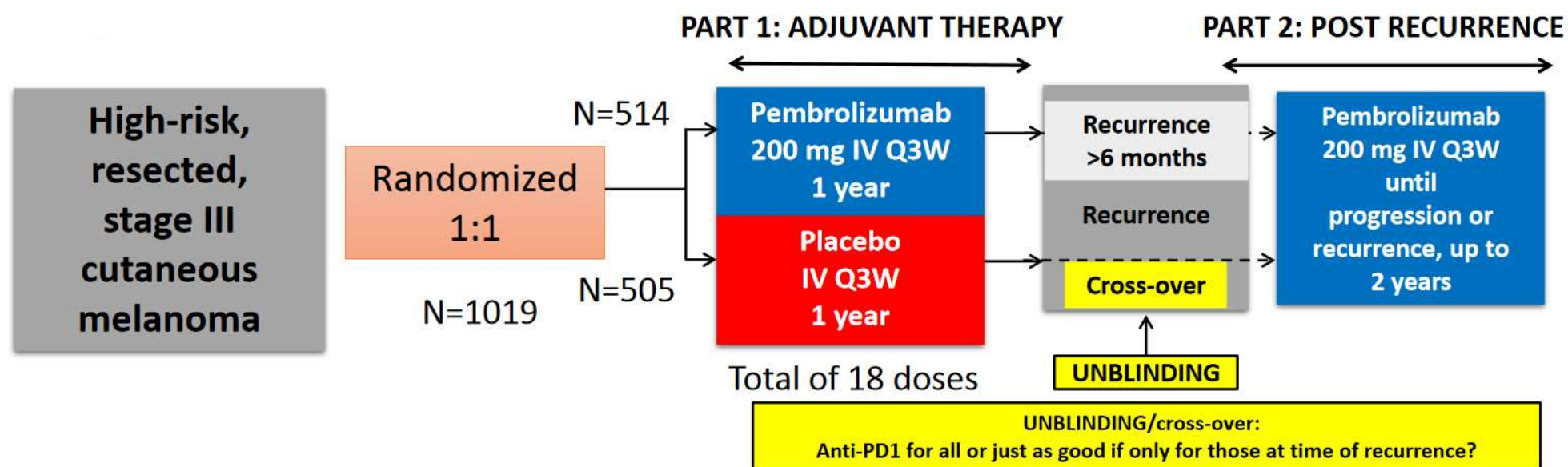
Incidence ≥10%



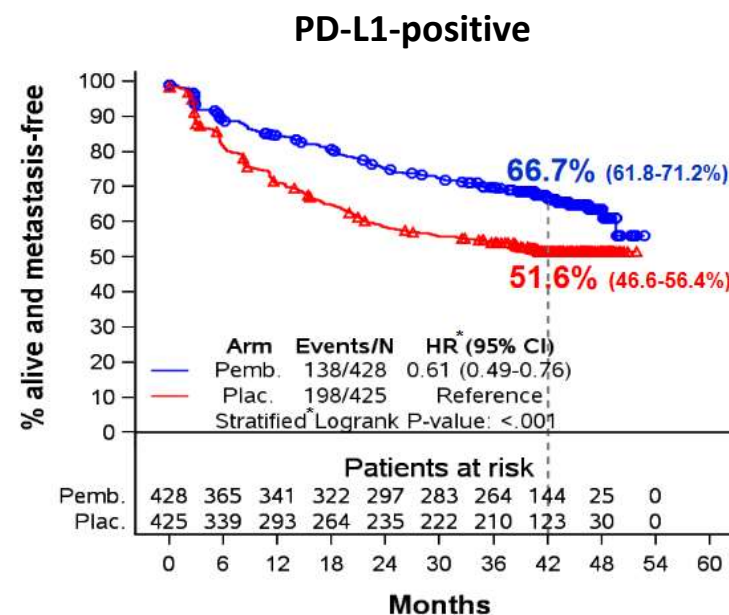
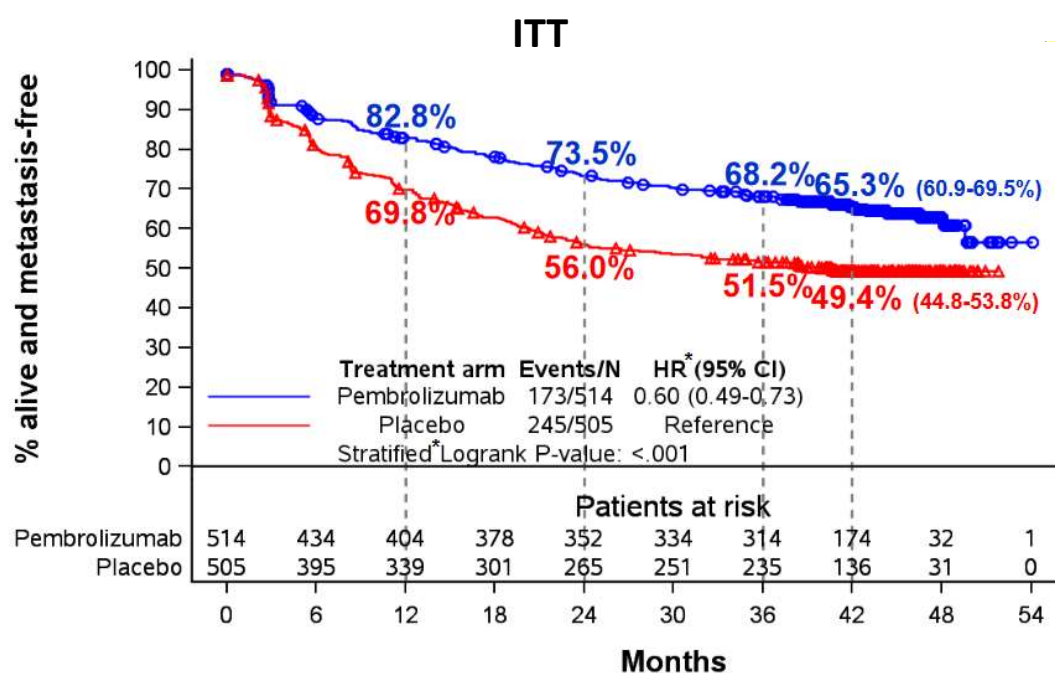
Pembrolizumab versus placebo after complete resection of high-risk stage III melanoma: final results regarding distant metastasis-free survival results from the EORTC 1325-MG/Keynote 054 double-blinded phase 3 trial

Alexander MM Eggermont, MD, PhD, Christian U Blank, MD, PhD, Mario Mandala, MD, Georgina V Long, MD, PhD, Victoria Atkinson, MD, Stéphane Dalle, MD, Andrew Haydon, MD, Andrey Meshcheryakov, MD, Adnan Khattak, MD, Matteo S Carlino, MD, PhD, Shahneen Sandhu, MD, Susana Puig, MD, PhD, Paolo A Ascierto, MD, Alexander van Akkooi, MD, PhD, Clemens Krepler, MD, Nageatte Ibrahim, MD, Sandrine Marreaud, MD, Michal Kicinski, PhD, Stefan Suci, PhD, Caroline Robert, MD, PhD

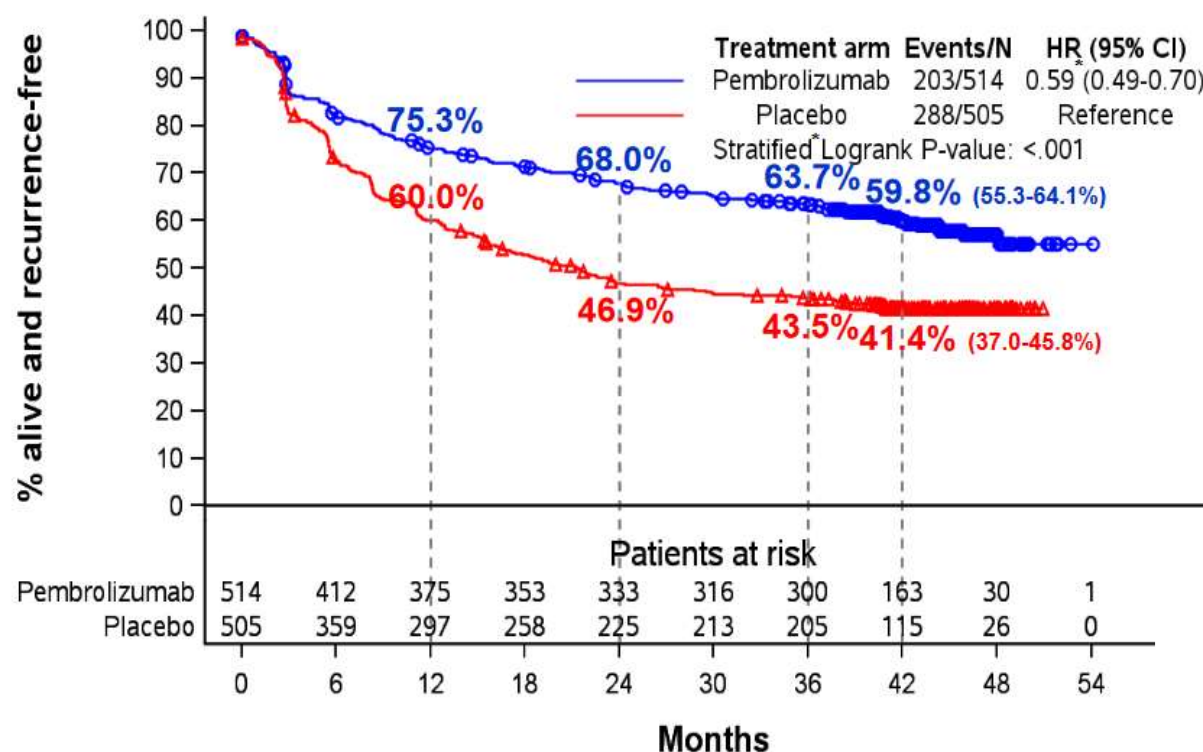
Study design



Secondary endpoint: final DMFS analysis



Updated primary endpoint analysis: RFS



Immune-related adverse events

	Pembrolizumab (n=509)		Placebo (n=502)	
	Grade ≥ 1	Grade ≥ 3	Grade ≥ 1	Grade ≥ 3
Any irAE	37.7%	7.7%	9.0%	0.6%
Endocrine disorders	23.4%	1.6%	5.0%	0%
Respiratory/thoracic disorders	4.9%	0.8%	0.6%	0%
Vitiligo or severe skin reactions	5.9%	1.0%	1.6%	0%
Gastrointestinal disorders	4.1%	2.2%	0.8%	0.4%
Hepatobiliary disorders	1.8%	1.4%	0.2%	0.2%
Other irAEs	3.3%	1.2%	1.0%	0%

Melanoma summary and trends

- **Adjuvant therapy stage IIIB/C/IV (Checkmate-238 Trial):**
 - 48 month relapse-free survival shows NIVO still superior to IPI; HR=0.71, P=0.0003
 - Patients with in transit metastases also benefit
 - No difference in overall survival noted between the arms
- **Adjuvant therapy stage IIA/B/C (Keynote-054 Trial):**
 - 42 month relapse-free survival shows PEMBRO still superior to placebo; HR=0.59, P=0.001
 - 42 month distant metastases-free survival also superior for PEMBRO
 - Grade 3-5 immune-related adverse events low at 7.7%
- **Metastatic therapy stage IV (LEAP-004 Trial):**
 - 31% response rate in PD-1 refractory patients
 - Median PFS was 4.2 months and median OS was 13.2 months
 - 7.8% of patients stopped therapy due to treatment-related adverse events

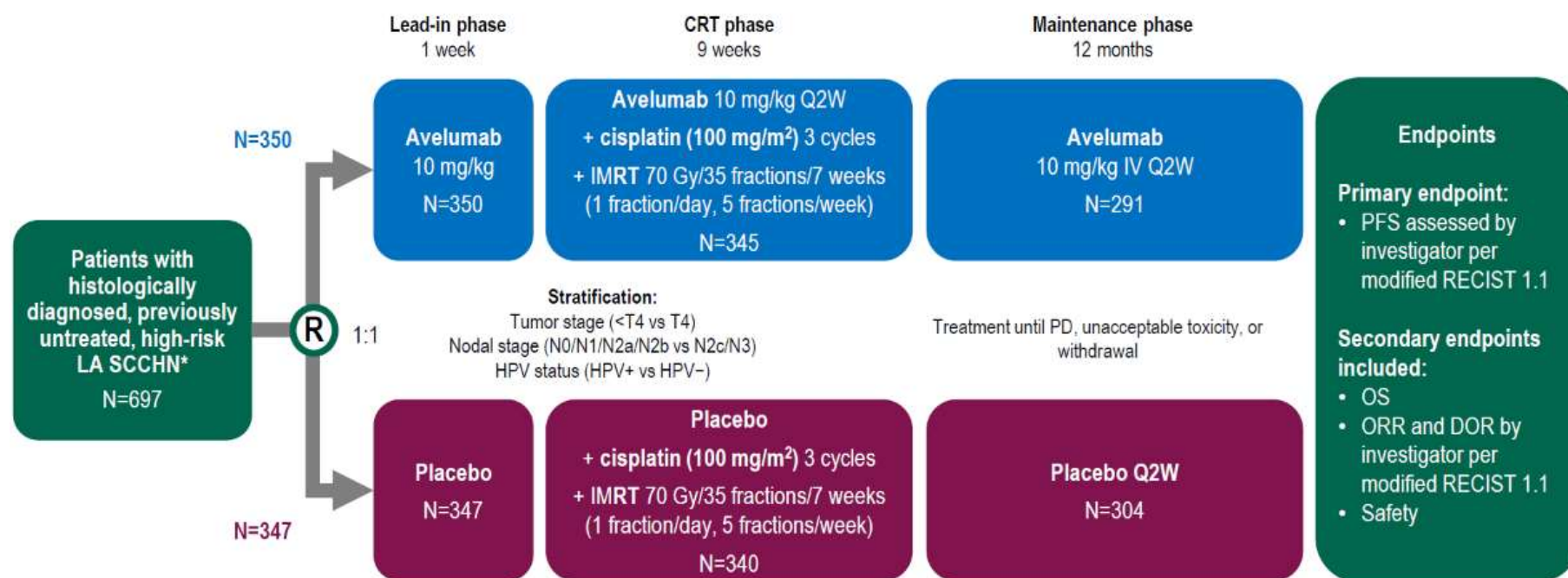
Webinar outline

- Genitourinary cancers
- Melanoma
- Head and neck cancer
- Gastrointestinal cancer
- Novel agents

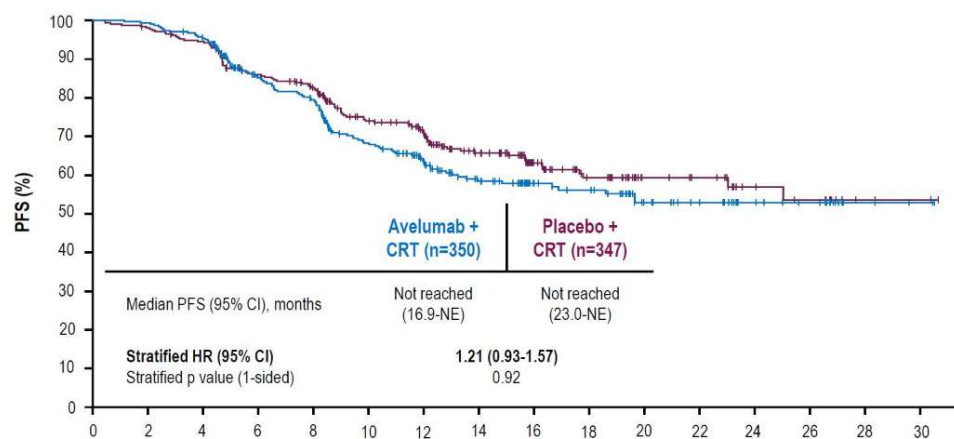
Primary results of the phase 3 JAVELIN Head & Neck 100 trial: avelumab plus chemoradiotherapy (CRT) followed by avelumab maintenance vs CRT in patients with locally advanced squamous cell carcinoma of the head and neck (LA SCCHN)

E.W. Cohen, R.L. Ferris, A. Psyrri, R.I. Haddad, M. Tahara, J.
Bourhis, K. Harrington, P. M-H. Chang, J-C. Lin, A. Razaq, M.M.
Teixeira, J. Lovey, J. Chamois, A. Rueda, C. Hu, M.V. Dvorkin, S.
De Beukelaer, D. Pavlov, H. Thurm, N. Lee

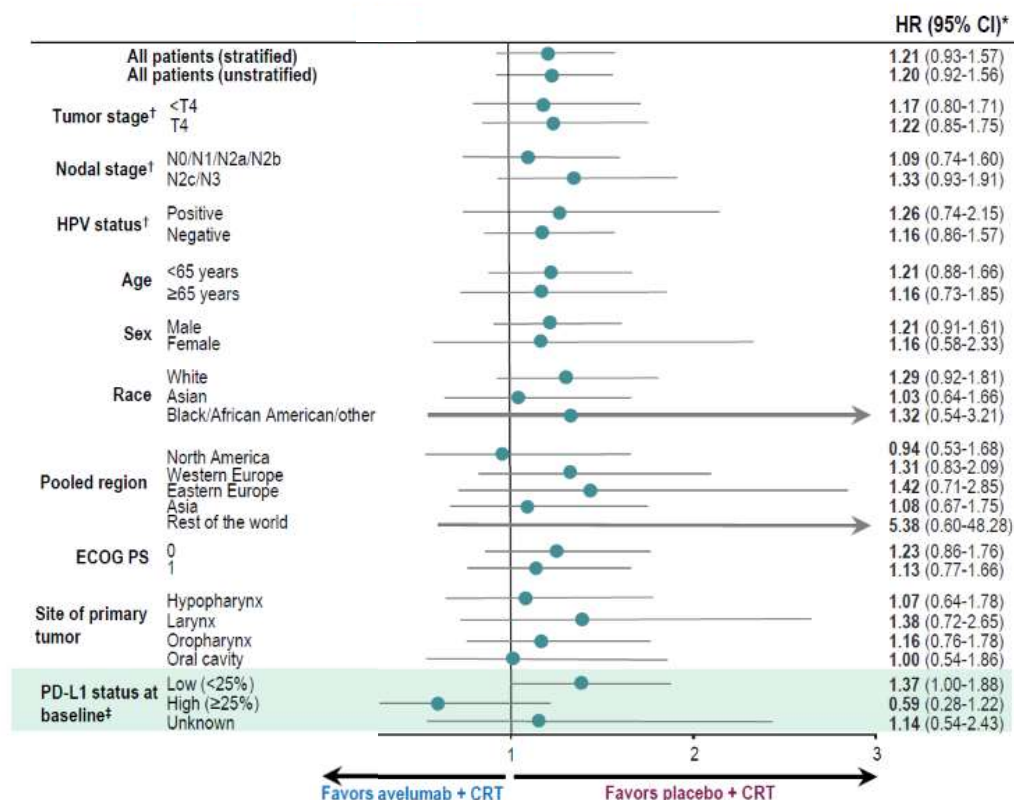
Study design



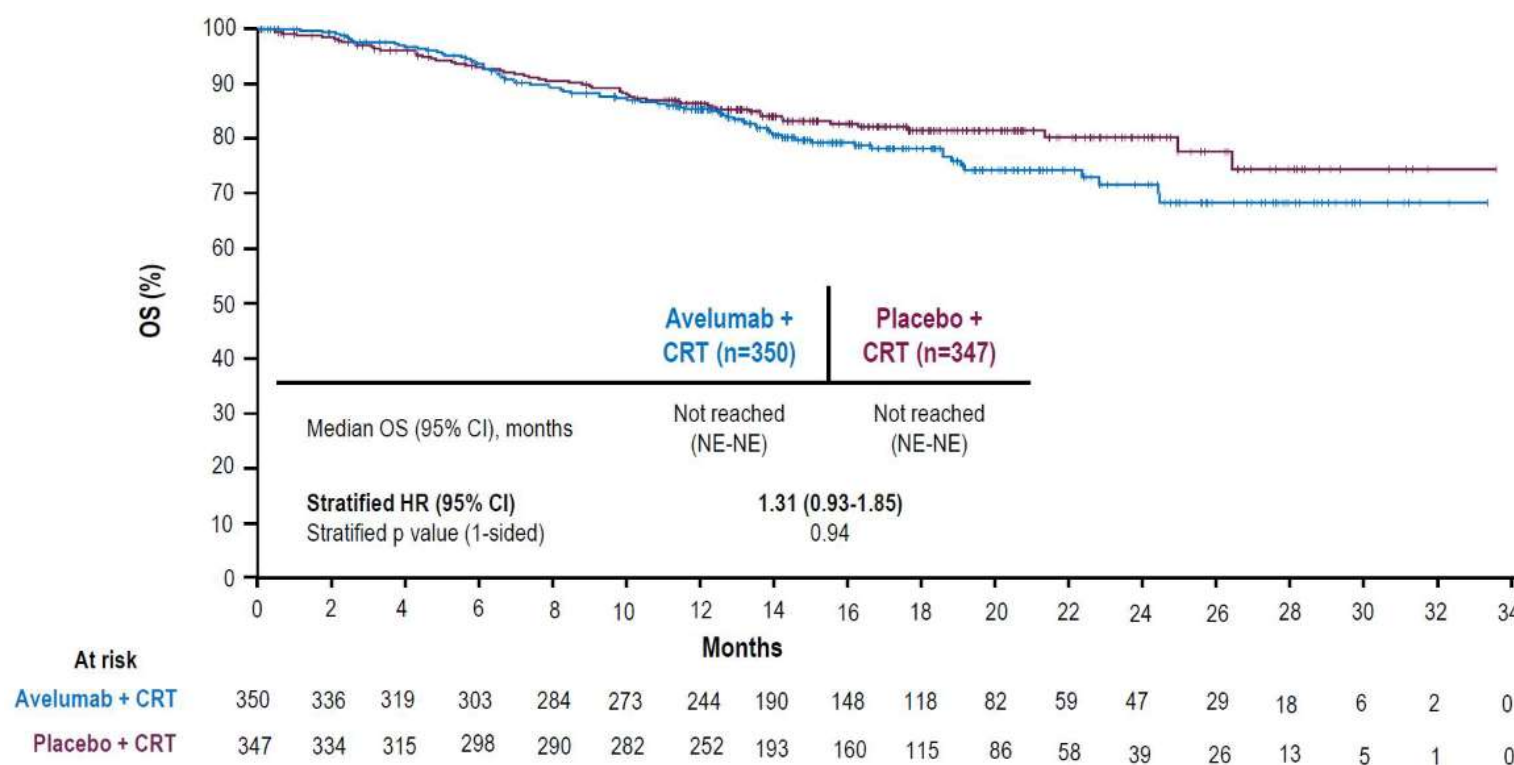
Primary endpoint: PFS



At risk	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
Avelumab + CRT	350	303	289	239	222	176	143	107	69	63	41	33	22	18	4	2
Placebo + CRT	347	303	291	257	241	200	172	121	75	56	31	28	18	15	3	2



Secondary endpoint: OS



Adverse events

	Avelumab + CRT (n=348)		Placebo + CRT (n=344)	
	All grades	Grade 3/4	All grades	Grade 3/4
Any TRAE, %*	98	66/14	99	63/11
Nausea	55	6	55	5
Anemia	53	12	50	13
Dry mouth	42	1	43	1
Mucosal inflammation	41	14	37	13
Radiation skin injury	39	5	40	5
Dysphagia	38	14	40	14
Weight decreased	35	4	43	6
Decreased appetite	33	7	33	5
Dysgeusia	30	0	34	1
Neutropenia	30	16	28	15
Fatigue	29	4	34	3
Vomiting	28	5	31	6
Stomatitis	27	7	28	8
Blood creatine increased	22	2	20	1
Hypomagnesemia	22	1	18	1
Neutrophil count decreased	18	11	17	9
Oropharyngeal pain	18	3	23	2
Infusion-related reaction, %	22	2	3	<1

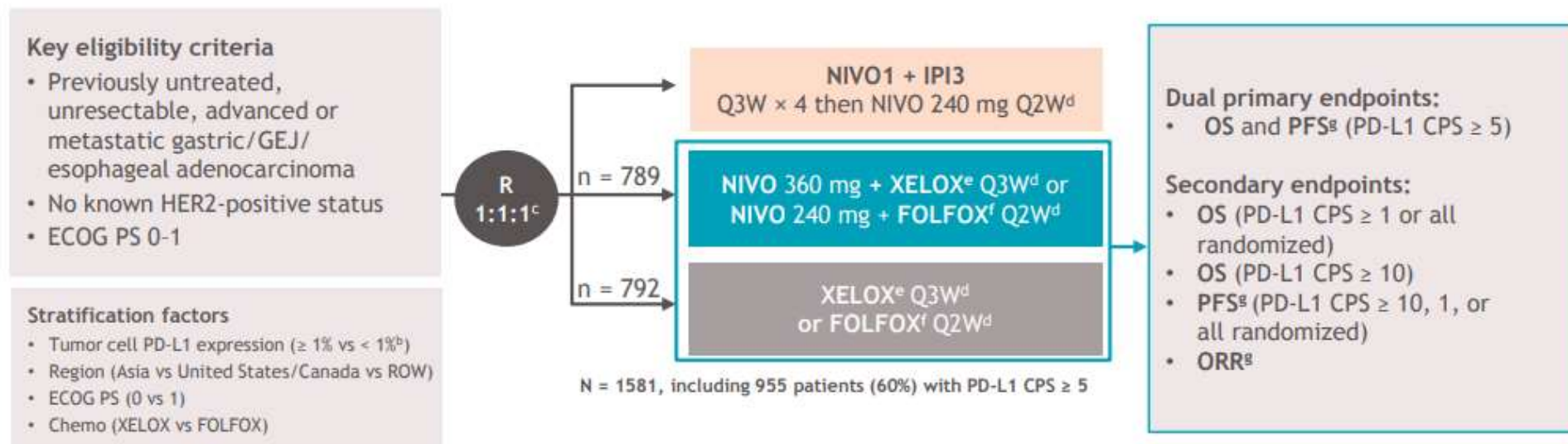
Webinar outline

- Genitourinary cancers
- Melanoma
- Head and neck cancer
- **Gastrointestinal cancer**
- Novel agents

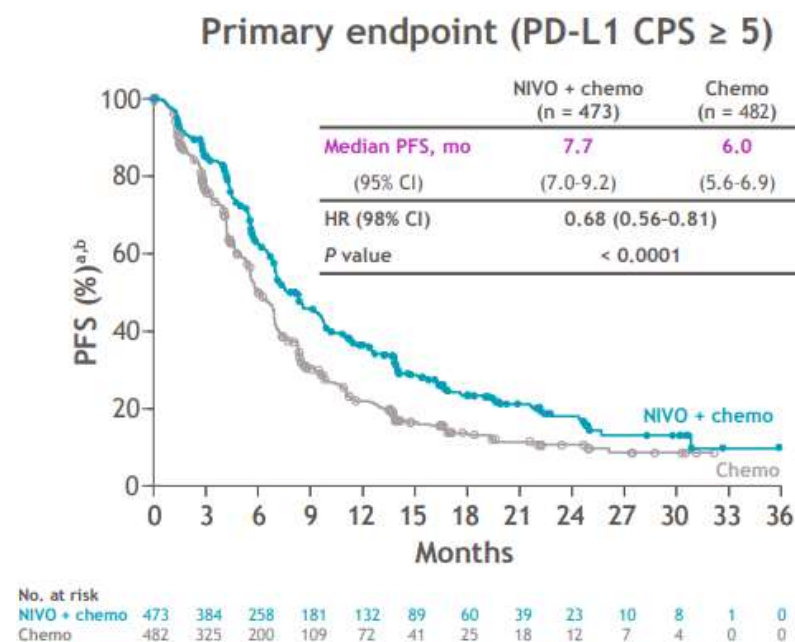
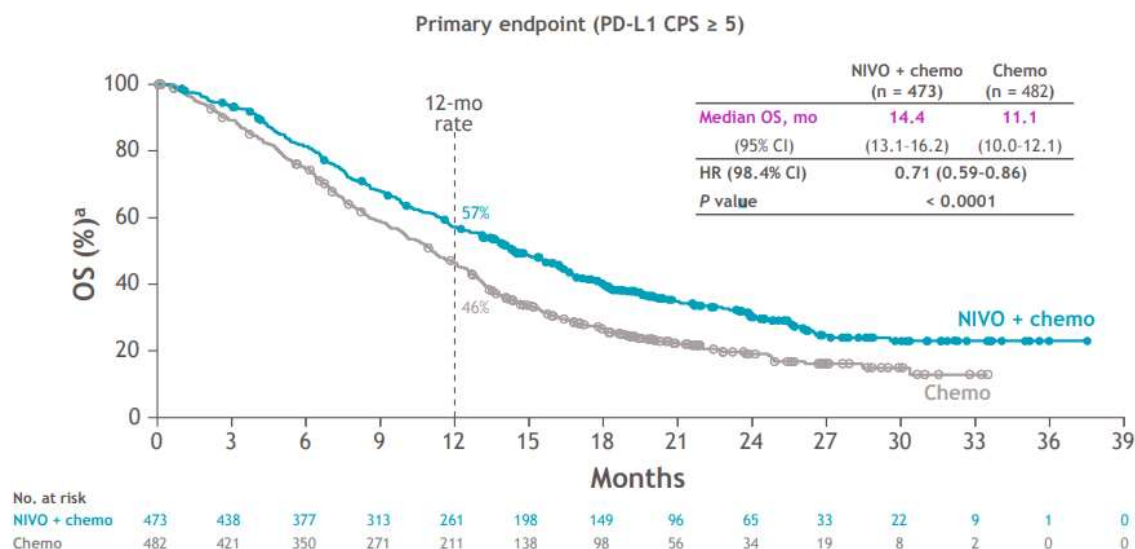
Nivolumab plus chemotherapy versus chemotherapy as first-line treatment for advanced gastric cancer/gastroesophageal junction cancer/esophageal adenocarcinoma: first results of the CheckMate 649 study

Markus Moehler, Kohei Shitara, Marcelo Garrido, Pamela Salman, Lin Shen, Lucjan Wyrwicz, Kensei Yamaguchi, Tomasz Skoczylas, Arinilda Campos Bragagnoli, Tianshu Liu, Michael Schenker, Patricio Yanez, Mustapha Tehfe, Valerie Poulart, Dana Cullen, Ming Lei, Kaoru Kondo, Mingshun Li, Jaffer A. Ajani, Yelena Y. Janjigian

Study design

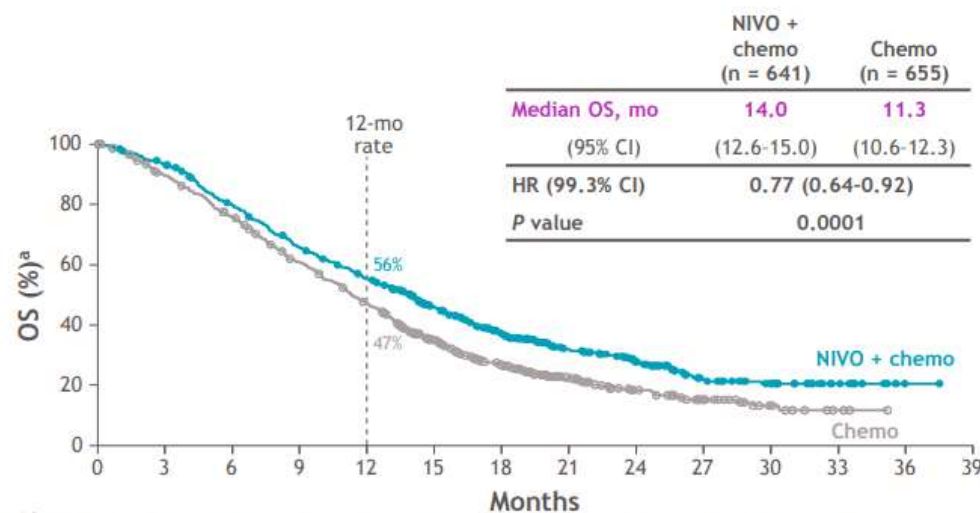


Primary endpoints – OS and PFS in PD-L1 CPS ≥ 5



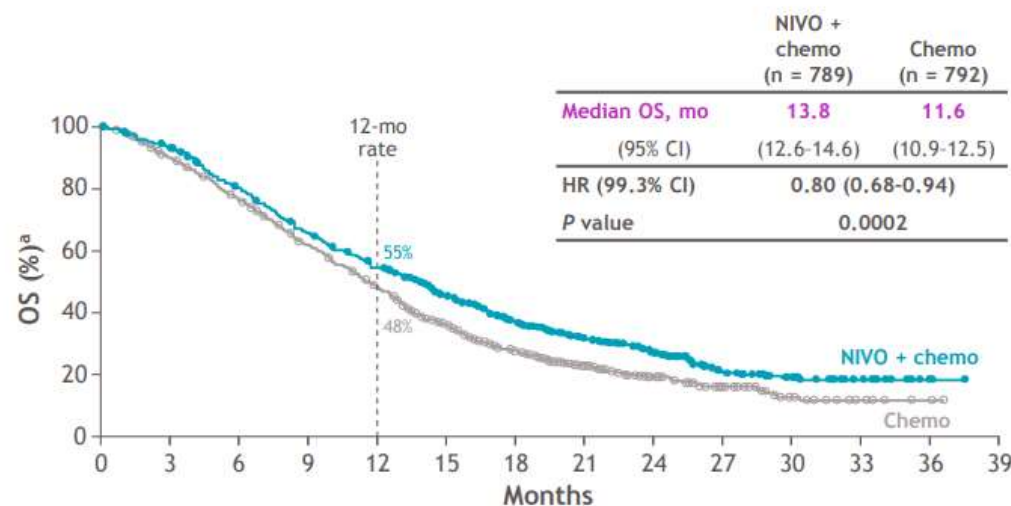
Secondary endpoint – OS in all patients

PD-L1 CPS ≥ 1



No. at risk	641	595	502	412	344	254	183	118	80	40	28	11	1	0
NIVO + chemo	641	595	502	412	344	254	183	118	80	40	28	11	1	0
Chemo	655	575	483	383	292	194	131	77	45	25	10	3	0	0

All randomized



No. at risk	789	731	621	506	420	308	226	147	100	49	34	14	2	0
NIVO + chemo	789	731	621	506	420	308	226	147	100	49	34	14	2	0
Chemo	792	697	586	469	359	239	160	94	59	35	15	7	2	0

Safety summary

Treatment-related adverse events				
%	Nivo + chemo (n=782)		Chemo (n=767)	
	Any grade	Grade 3-4	Any grade	Grade 3-4
Any TRAEs	94	59	89	44
Serious TRAEs	22	17	12	10
TRAEs leading to discontinuation	36	17	24	9
Treatment-related deaths	N = 12		N = 4	
TRAEs with potential immunologic etiology				
%	Nivo + chemo (n=782)		Chemo (n=767)	
	Any grade	Grade 3-4	Any grade	Grade 3-4
Endocrine	14	<1	<1	0
Gastrointestinal	34	5	27	3
Hepatic	26	4	17	2
Pulmonary	5	2	<1	<1
Renal	3	<1	1	<1
Skin	27	3	14	<1

Webinar outline

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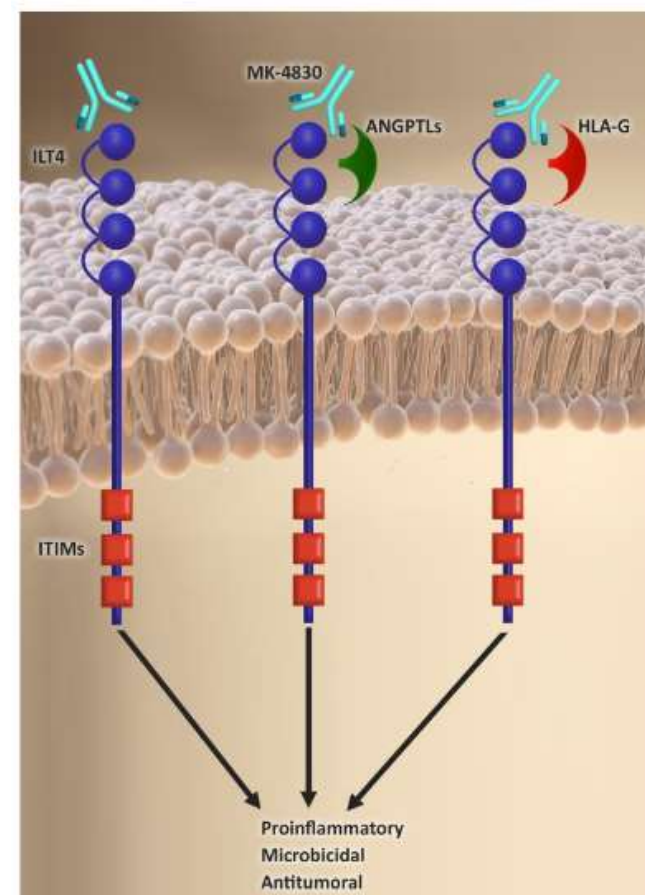
Society for Immunotherapy of Cancer

Initial Results of a Phase 1 Study of MK-4830, a First-in-Class Anti-Immunoglobulin-Like Transcript 4 Myeloid-Specific Antibody in Patients With Advanced Solid Tumors

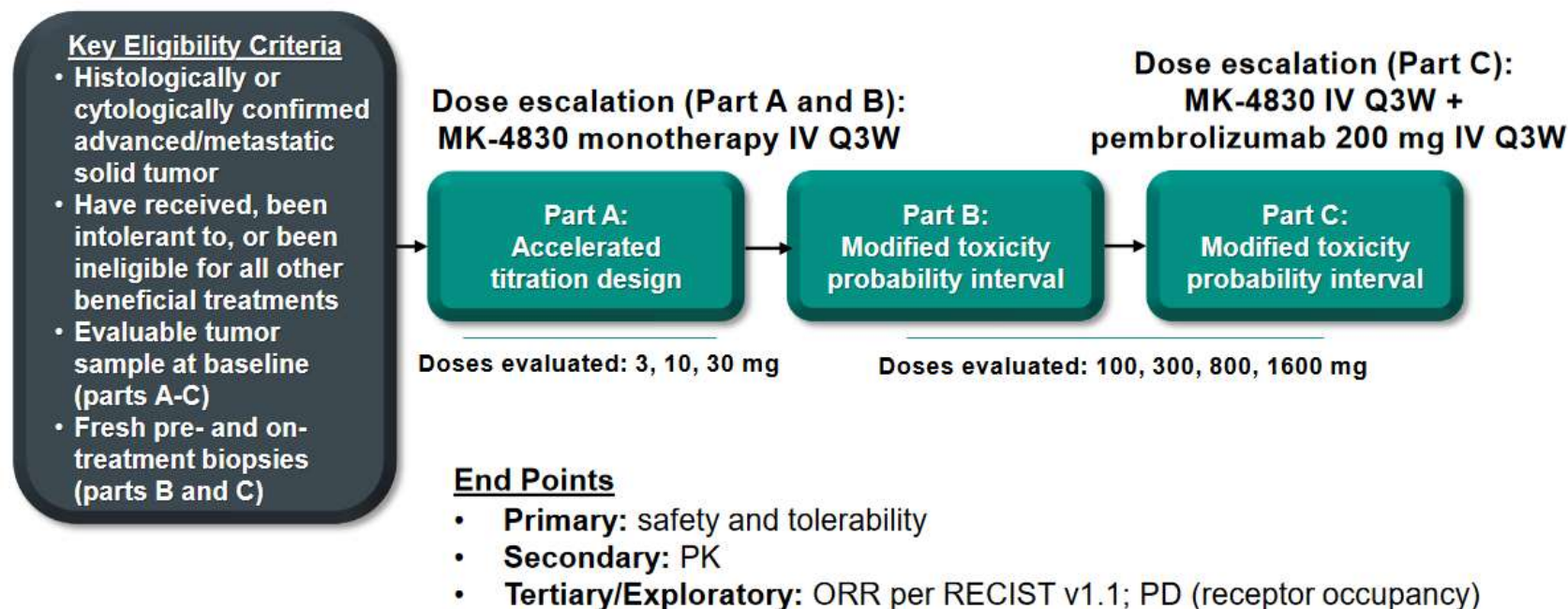
Lillian L. Siu, Ding Wang, John Hilton, Ravit Geva, Drew Rasco,
Anson K. Abraham, Julia F. Markensohn, Leah Suttner,
Shabana Siddiqi, Rachel A. Altura, Corinne Maurice-Dror

MK-4830

- Myeloid infiltration in tumors is associated with poor prognosis
- Immunoglobulin-like transcript 4 (ILT4) is an inhibitory receptor highly expressed by myeloid cells (APCs, MDSCs, macrophages, granulocytes)
- Expression of ILT4 and its major ligand, HLA-G, are associated with poor prognosis in multiple tumor types
- Targeting ILT4 may relieve myeloid suppressive activity in the tumor microenvironment and result in an antitumor response
- MK-4830 catalyzes reprogramming of tumor-associated macrophages, relieving myelosuppression and enhancing T-cell function

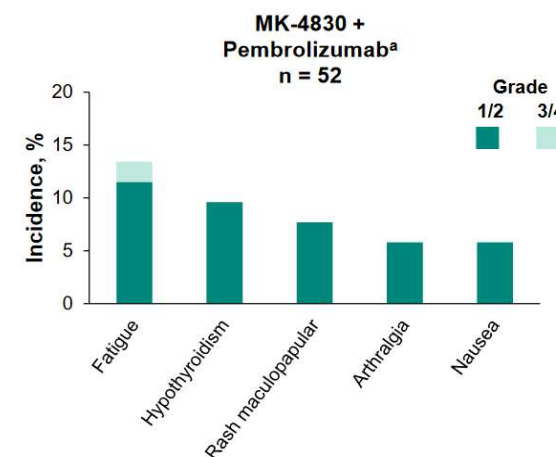
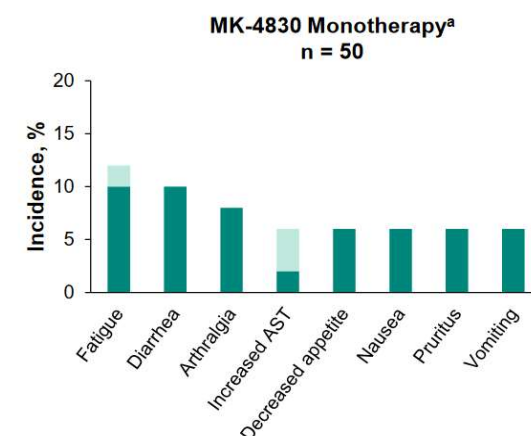


Study design



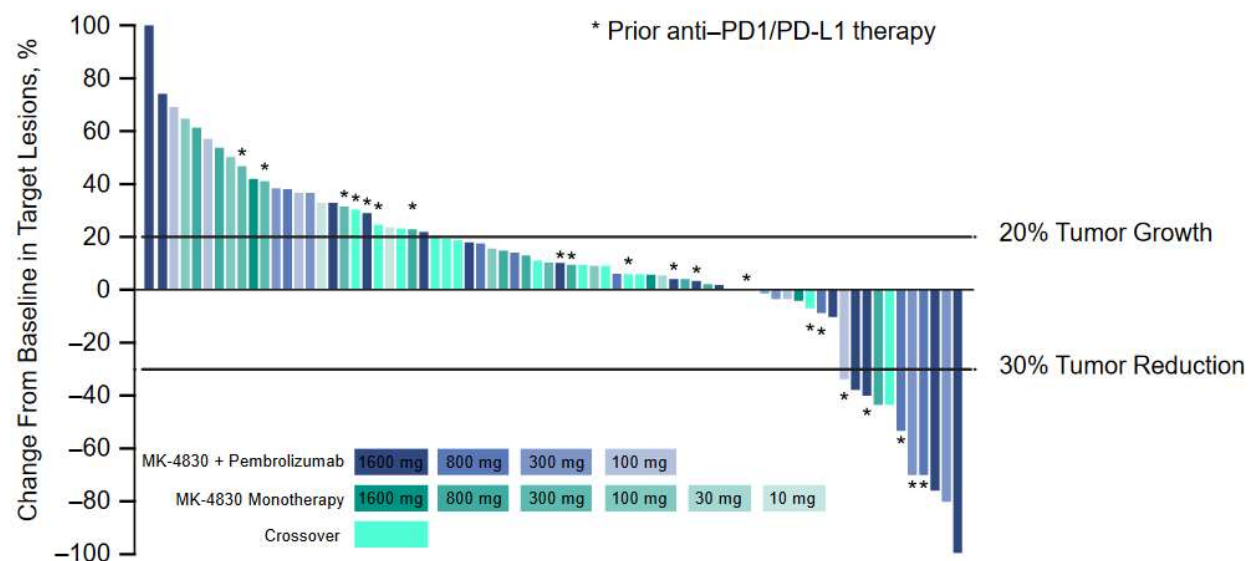
Safety

AE, n (%)	MK-4830 Monotherapy ^a n = 50	MK-4830 + Pembrolizumab ^a n = 52
Any-grade	50 (100)	48 (92)
Grade 3-5	23 (46)	23 (44)
Led to discontinuation	2 (4)	1 (2)
Serious	14 (28)	18 (35)
Serious and led to discontinuation	0	0
Led to death ^b	2 (4)	0
Any-grade TRAE	24 (48)	28 (54)
Grade 3-4 TRAE	3 (6)	4 (8)
TRAE led to discontinuation	1 (2)	1 (2)
Serious TRAE	0	4 (8)
Serious TRAE and led to discontinuation	0	0
Led to death	0	0



Efficacy

%	MK-4830	MK-4830 + pembro	Crossover to combo
ORR	2	24	6
CR	0	3	0
PR	2	21	6
SD	22	26	6
PD	68	47	17
No RECIST assessment	8	3	72

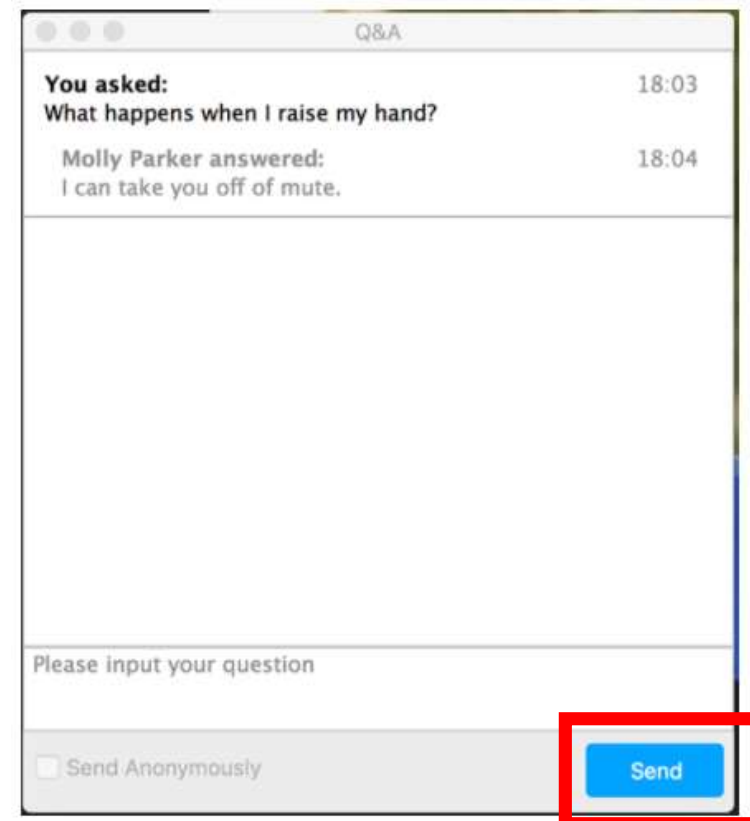
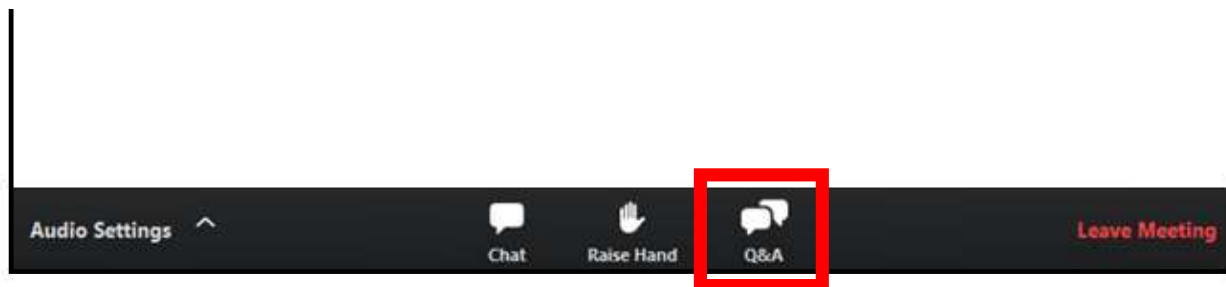


HN, GI and Novel Agents

- **Head and Neck (JAVELIN HN 100):**
 - No benefit in PFS or OS with avelumab added to chemoradiation in locally advanced high-risk SCCN
 - KEYNOTE-412 results with pembrolizumab are pending
- **Esophageal/GEJ/Gastric (CHECKMATE 649):**
 - Nivolumab + chemotherapy in PD-L1 positive (CPS \geq 5) patients produced statistically significant benefit in mPFS (Δ 1.7 m) and mOS (Δ 3.3 m) compared to chemotherapy alone -> potential new standard 1st line treatment
- **Novel agents (MK4830-001):**
 - MK4830 has a novel MOA by targeting myeloid populations, antitumor activity seen in both ICI-naïve and ICI-pretreated patients across different tumor types

How to Submit Questions

- Click the “Q&A” icon located on at the bottom of your Zoom control panel
- Type your question in the Q&A box, then click “Send”
- Questions will be answered in the Question & Answer session at the end of the webinar (as time permits)



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- You will receive an email following the webinar with instructions on how to claim credit
- Questions and comments: connectED@sitcancer.org

Thank you for attending the webinar!

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