

Immunotherapy for the Treatment of Lung Cancer

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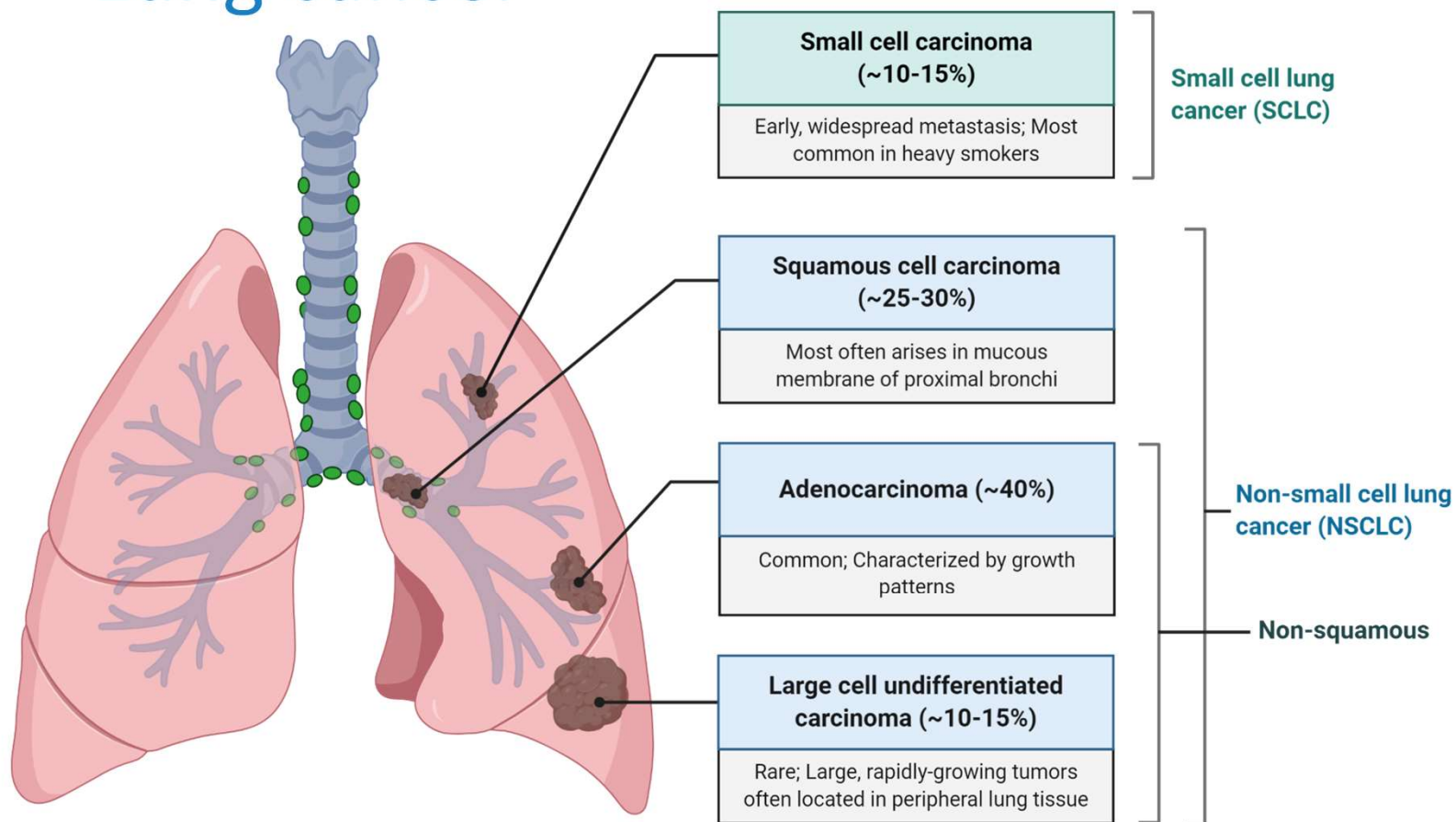


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Disclosures

- **Advisory Committees** – AstraZeneca, Boehringer Ingelheim, Bristol-Myers Squibb, Catalyst, EMD Serono, Foundation Medicine, Hengrui Therapeutics, Genentech, GSK, Guardant Health, Eli Lilly, Merck, Novartis, Pfizer, Roche, Sanofi, Seattle Genetics, Spectrum, Takeda.
Research Support – AstraZeneca, GlaxoSmithKline, Spectrum.
Royalties and Licensing fees – Spectrum.
- I will be discussing non-FDA approved indications during my presentation.

Lung cancer



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Treatment options for NSCLC

Local disease

- Surgery
- Stereotactic body radiation therapy
- Chemotherapy

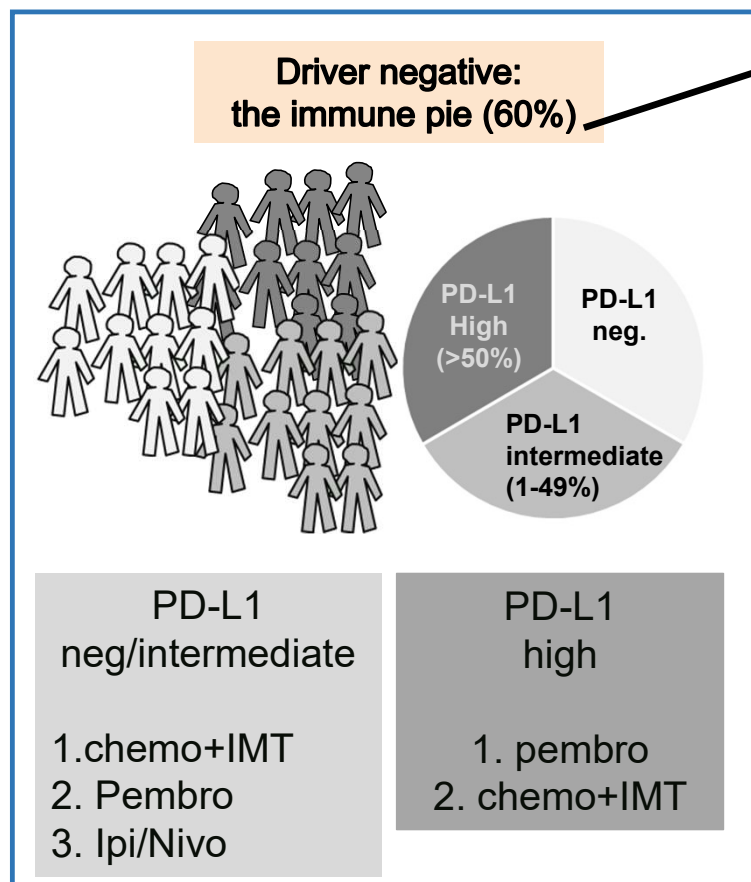
Stage III unresectable disease

- Concurrent chemo-radiation
- Immunotherapy

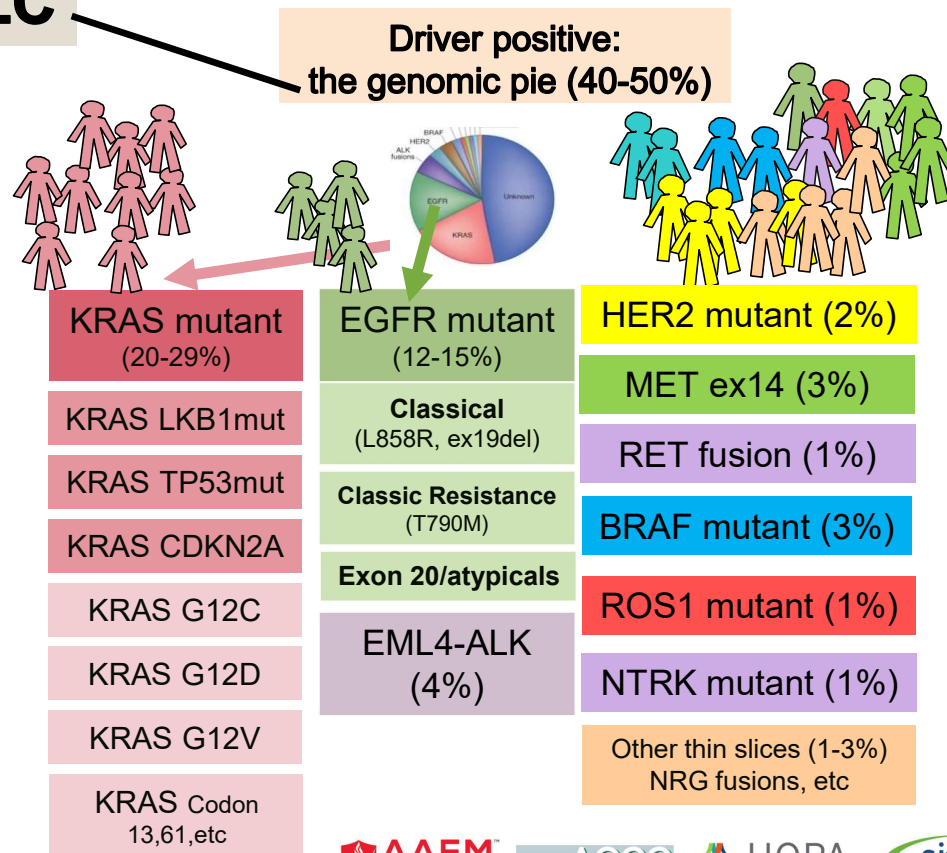
Metastatic disease

- Chemotherapy
- Targeted therapies
- Immunotherapy
- Radiation therapy

Treatment of metastatic NSCLC



NSCLC



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Slide 5

GM1

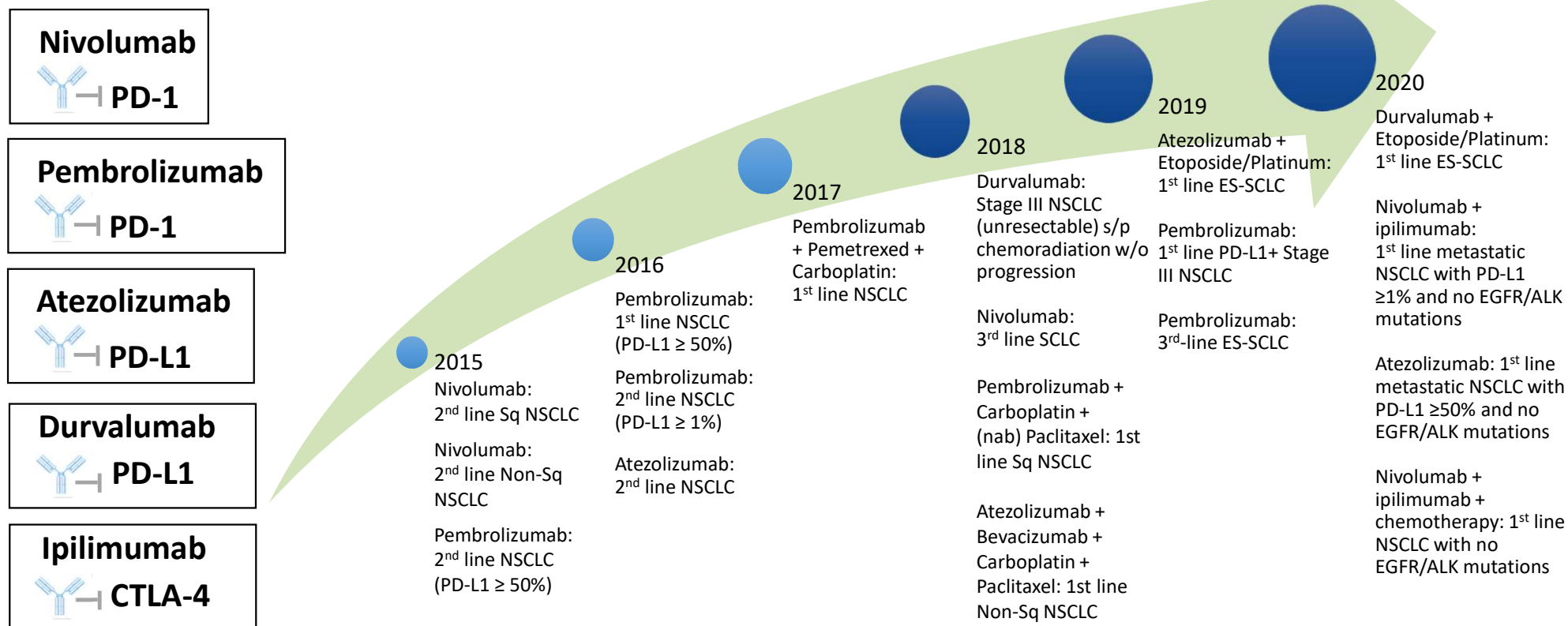
NEW SLIDE

Gujjarro Munoz,Irene, 12/8/2020

Metastatic NSCLC treatment options overview

Drug type	Molecular format	Administration route	Example for NSCLC	Typical dosing regimen
Chemotherapy	Small molecule	Intravenous, occasionally oral	Nab-paclitaxel	100 mg/m ² on days 1, 8, 15 of 21-day cycle
Targeted therapy	Small molecule	Oral	Osimertinib (kinase inhibitor)	80 mg tablet once a day
Targeted antibody therapy	Antibody	Intravenous	Bevacizumab (VEGF-A inhibitor)	15 mg/kg Q3W
Immune checkpoint inhibitor	Antibody	Intravenous	Pembrolizumab (PD-1 inhibitor)	200 mg Q3W or 400 mg Q6W

Immune checkpoint inhibitors in lung cancer



Outline

- Non-small cell lung cancer
 - Front-line – PD-L1-selected and unselected
 - Later lines of treatment
 - Stage III
- Small cell lung cancer
- Future directions for lung cancer immunotherapy

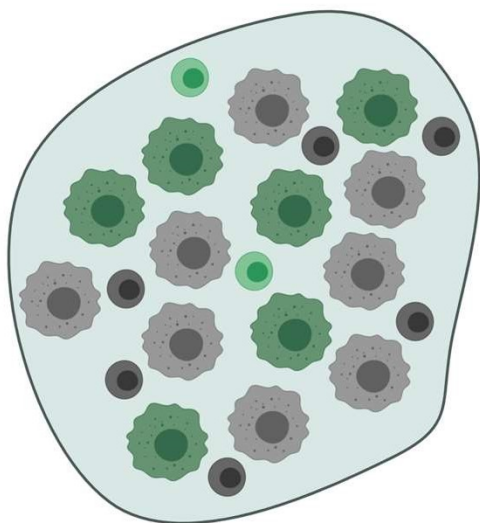
Immunotherapy for first-line treatment of metastatic NSCLC

Drug	Indication	Dose
Pembrolizumab	1 st line metastatic NSCLC with PD-L1 TPS ≥ 1% and no EGFR/ALK mutations	200 mg Q3W or 400 mg Q6W
Atezolizumab	1 st line metastatic NSCLC with PD-L1 ≥ 50% of tumor cells or ≥ 10% of immune cells with no EGFR/ALK mutations	840 mg Q2W, 1200 mg Q3W, or 1680 mg Q4W
Nivolumab + ipilimumab	1 st line metastatic NSCLC with PD-L1 ≥ 1% and no EGFR/ALK mutations	Nivolumab 3 mg/kg Q2W + ipilimumab 1 mg/kg Q6W
Nivolumab + ipilimumab + platinum-doublet chemotherapy	1 st line metastatic NSCLC with no EGFR/ALK mutations	Nivolumab 360 mg Q3W + ipilimumab 1 mg/kg Q6W + 2 cycles of chemotherapy
Pembrolizumab + pemetrexed + platinum	1 st line metastatic non-squamous NSCLC with no EGFR/ALK mutations	200 mg Q3W or 400 mg Q6W
Pembrolizumab + carboplatin + paclitaxel/nab-paclitaxel	1 st line metastatic squamous NSCLC	200 mg Q3W or 400 mg Q6W
Atezolizumab + bevacizumab + paclitaxel + carboplatin	1 st line metastatic non-squamous NSCLC with no EGFR/ALK mutations	For 4-6 cycles: atezolizumab 1200 mg Q3W + chemotherapy + bevacizumab; Maintenance: 840 mg Q2W, 1200 mg Q3W, or 1680 mg Q4W
Atezolizumab + nab-paclitaxel + carboplatin	1 st line metastatic non-squamous NSCLC with no EGFR/ALK mutations	For 4-6 cycles: atezolizumab 1200 mg Q3W + chemotherapy Maintenance: 840 mg Q2W, 1200 mg Q3W, or 1680 mg Q4W

Brief aside: PD-L1 TPS vs CPS

$$TPS = \frac{\# \text{ of PD-L1 positive tumor cells}}{\text{number of viable tumor cells}} \times 100$$

$$CPS = \frac{\# \text{ of PD-L1 positive cells (tumor cells, lymphocytes, macrophages)}}{\text{total number of tumor and immune cells}} \times 100$$



-  PD-L1-positive immune cell
-  PD-L1-negative immune cell
-  PD-L1-positive tumor cell
-  PD-L1-negative tumor cell

$$TPS = \frac{6 \text{ positive tumor cells}}{14 \text{ total tumor cells}} \times 100 = 43$$

$$CPS = \frac{6 \text{ positive tumor cells} + 2 \text{ positive immune cells}}{22 \text{ total cells}} \times 100 = 36$$

Treatment Naïve Regimens: Competing Strategies in NSCLC by biomarker status

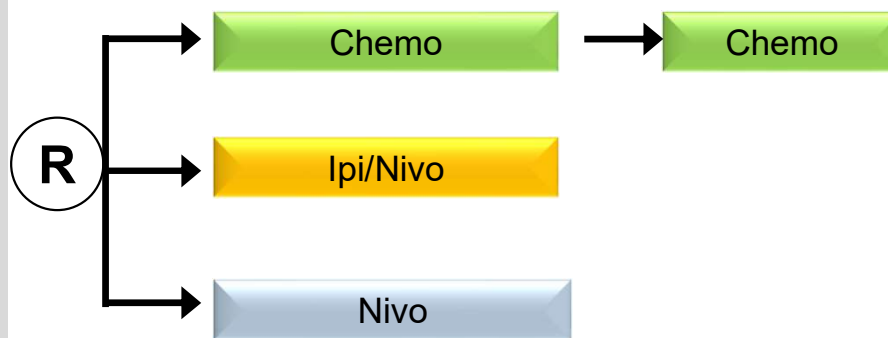
PD-L1-selected	PD-L1-unselected
Nivolumab + ipilimumab <i>CheckMate 227</i>	Nivolumab + ipilimumab + platinum-doublet <i>CheckMate 9LA</i>
Pembrolizumab <i>KEYNOTE-024, -042</i>	Pembrolizumab + chemotherapy <i>KEYNOTE-189, -407</i>
Atezolizumab <i>IMpower110</i>	Atezolizumab + bevacizumab + chemotherapy <i>IMpower150</i>
	Atezolizumab + chemotherapy <i>IMpower130</i>

Checkmate-227: randomized phase III of nivo and nivo combinations

1L nonsquamous NSCLC
 N=1202

Primary endpoint:

- OS
- PFS (by ICR)
 - Adjusted to: PFS (by IRC) in pts with high mutational burden (≥ 10 mut/mb)



Hellman et al, AACR 2018; Hellman et al, NEJM 2018

1L, first-line; BMS, Bristol-Myers Squibb; chemo, chemotherapy; ipi, ipilimumab; nivo, nivolumab; NSCLC, non-small cell lung cancer; OS, overall survival; PFS, progression-free survival; RP3, randomized phase 3.

1. CT.Gov. Accessed Mar 2, 2018. 2. <https://news.bms.com/press-release/bms/pivotal-phase-3-checkmate-227-study-demonstrates-superior-progression-free-survival>. Accessed Mar 2, 2018.

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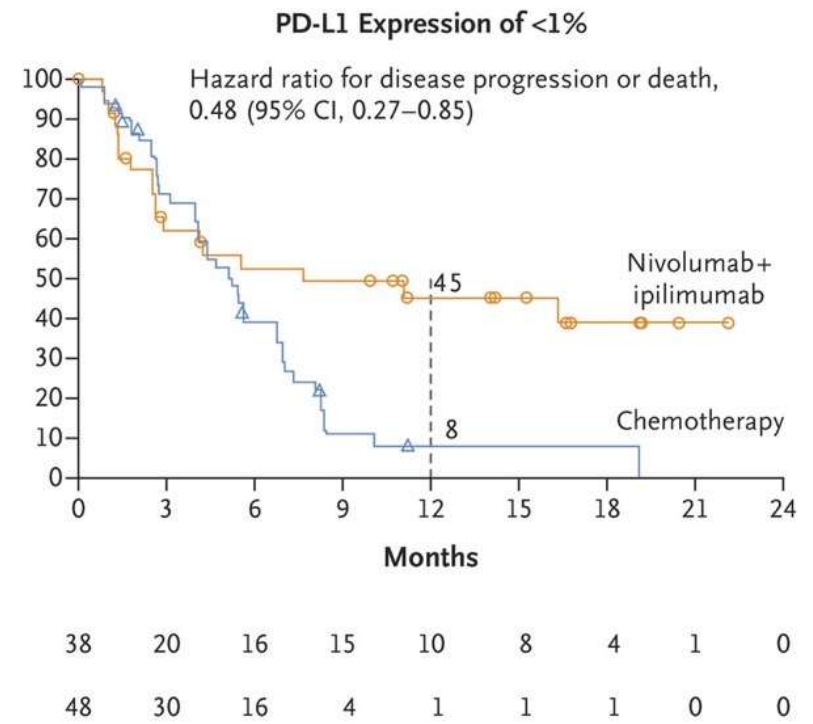
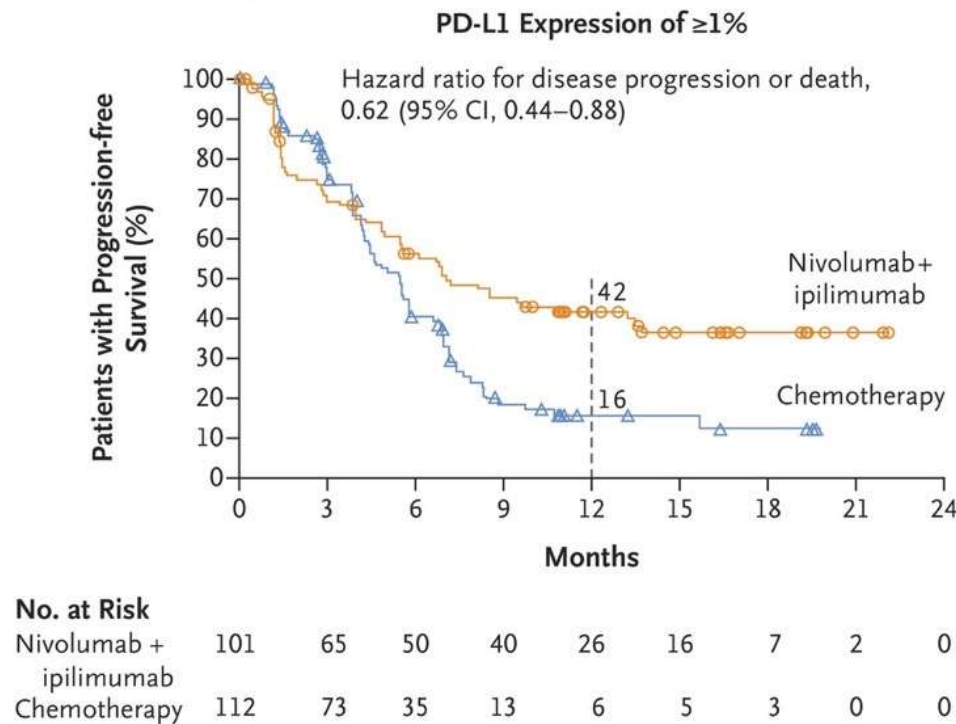
GM2

NEW

Gujjarro Munoz,Irene, 12/8/2020

Ipi/nivo is prolongs PFS compared with chemo in TMB-high NSCLC, regardless of PD-L1 level

A Tumor PD-L1 Expression



Hellman et al, NEJM, 2018

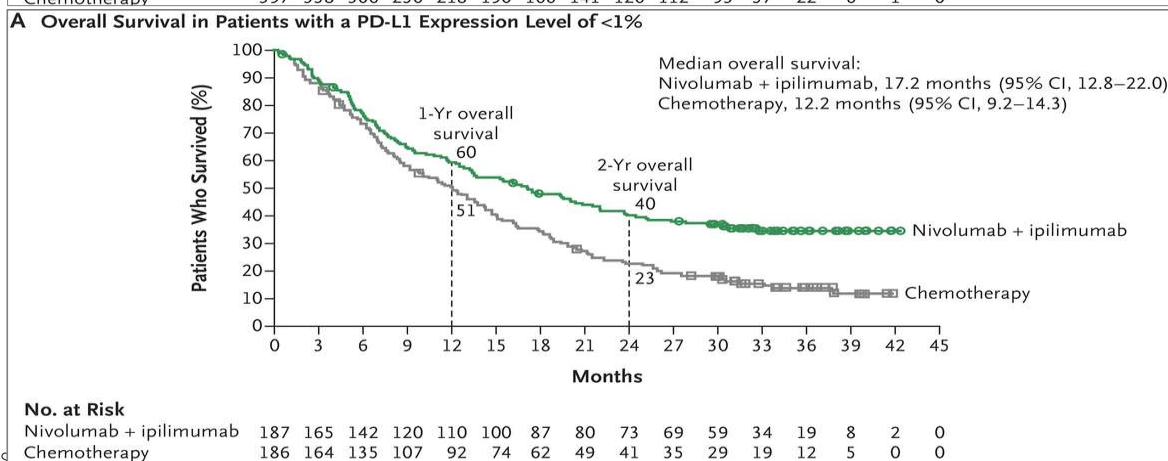
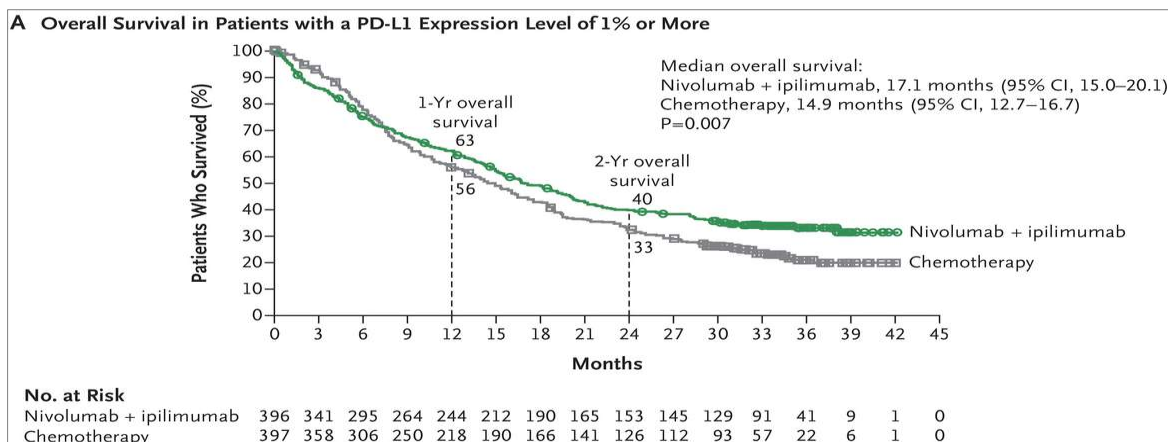
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GM3

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Gujjarro Munoz,Irene, 12/8/2020

Updated results: Ipi/nivo is prolongs OS compared with chemo regardless of PD-L1 level



PD-L1 expression level of 1% or more:

mOS was **17.1 months** (95% CI, 15.0 to 20.1) with nivo plus ipi and **14.9 months** (95% CI, 12.7 to 16.7) with chemo

PD-L1 expression level of less than 1%:

17.2 months (95% CI, 12.8 to 22.0) with nivo plus ipi and **12.2 months** (95% CI, 9.2 to 14.3) with chemo

Hellman et al, NEJM, 2019

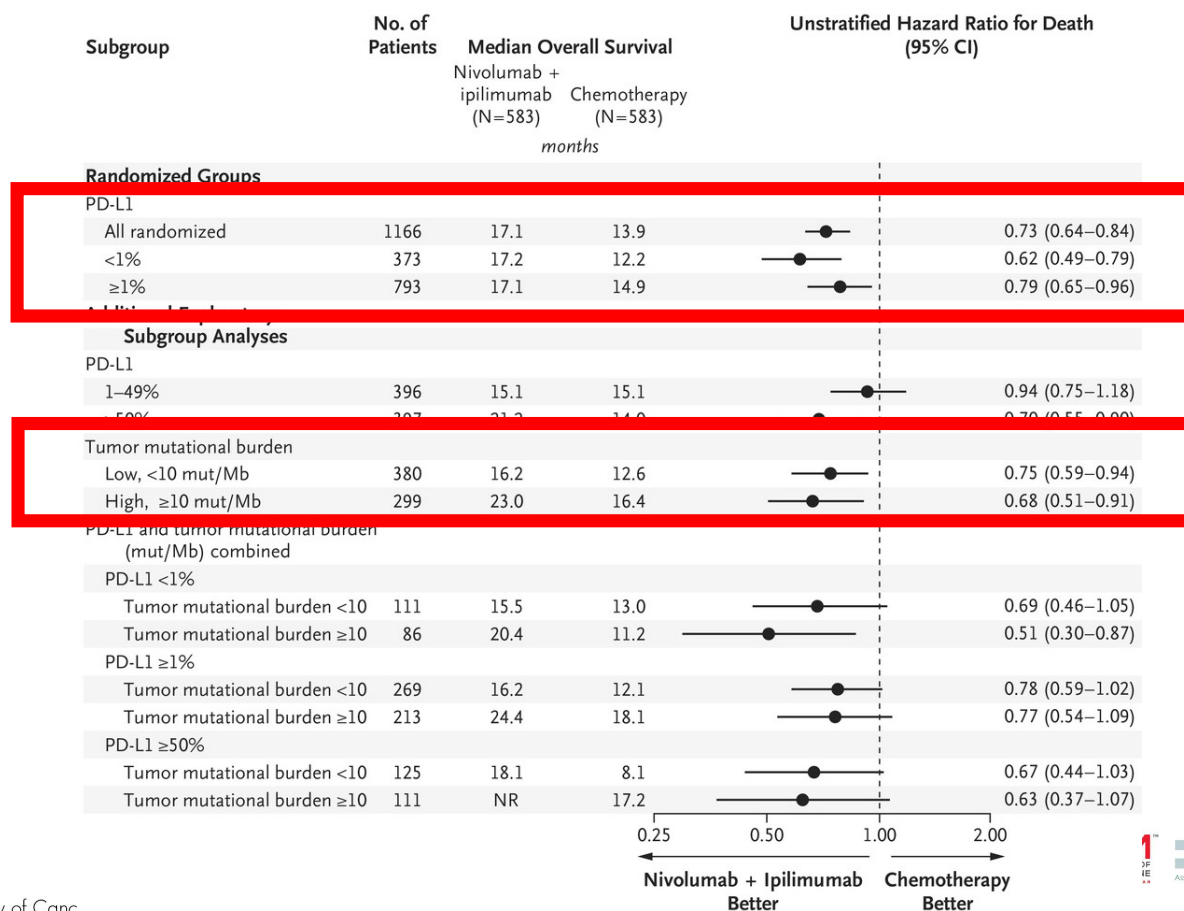
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Gujjarro Munoz,Irene, 12/8/2020

Ipi/nivo treatment resulted in a longer duration of OS independent of the PD-L1 level or TMB



Hellman et al, NEJM, 2019

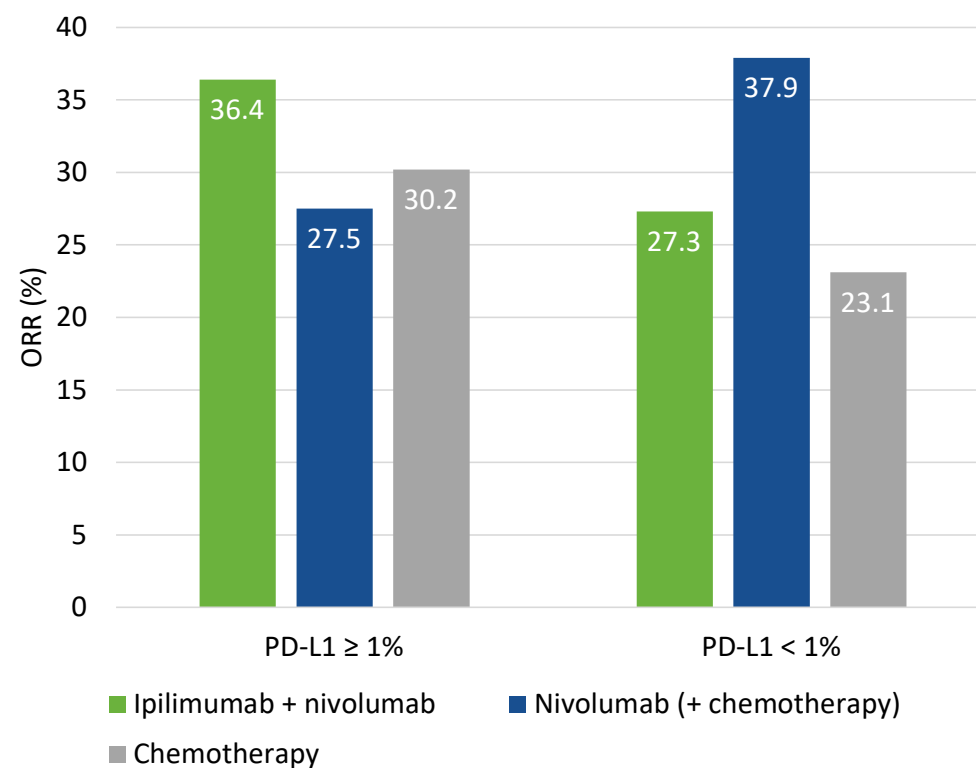
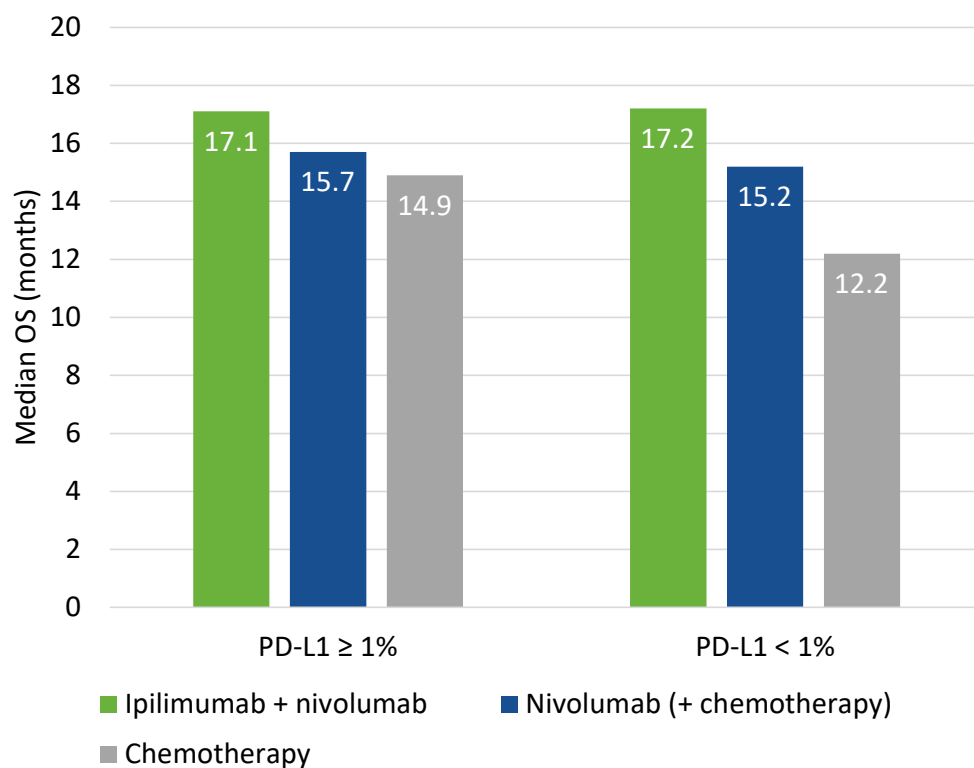
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Gujjarro Munoz,Irene, 12/8/2020

CheckMate 227: Ipilimumab + nivolumab vs chemotherapy for 1L NSCLC

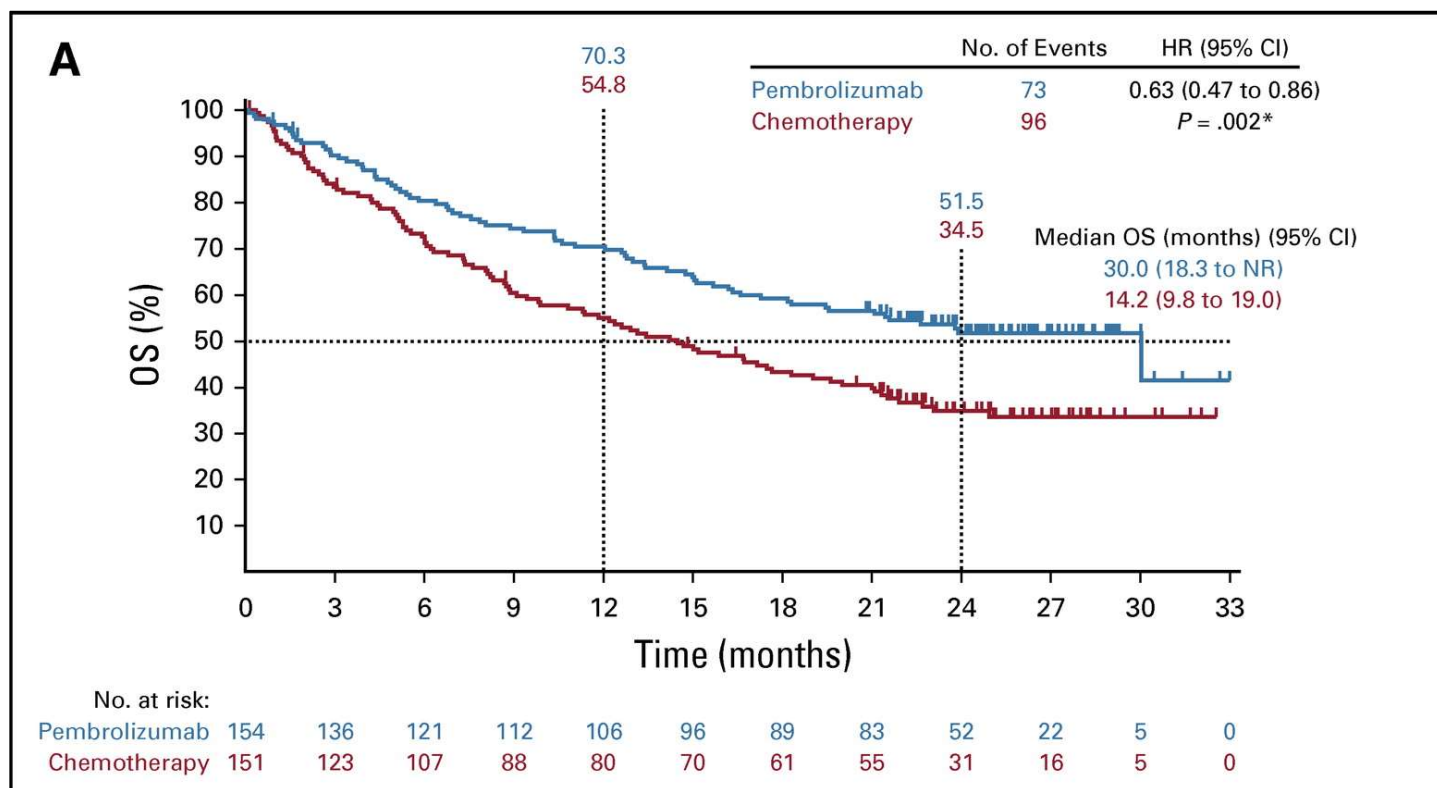


Ramalingam, ASCO 2020.

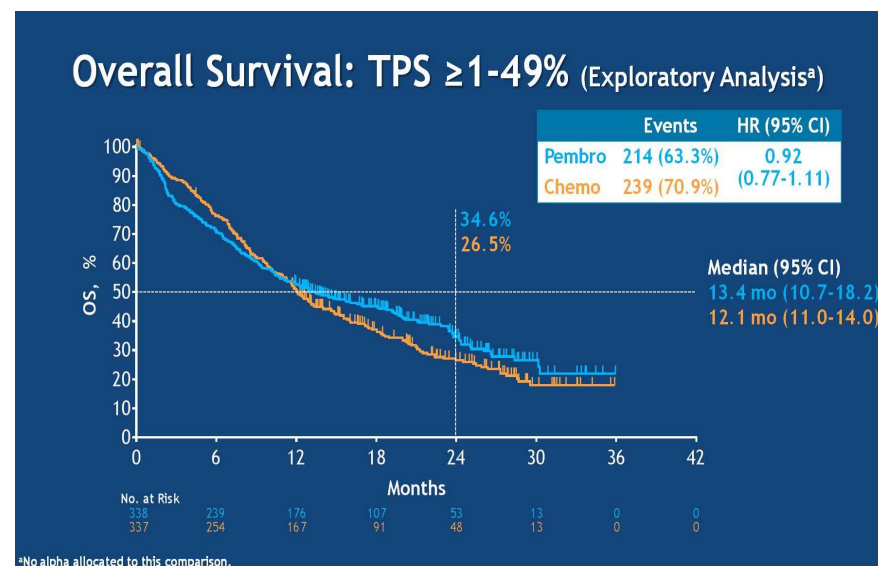
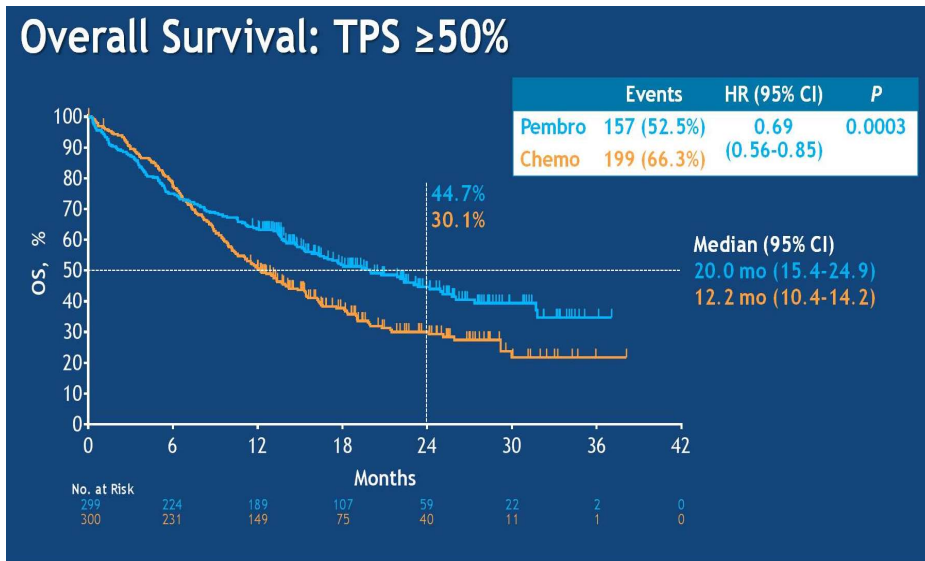
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KEYNOTE-024: Pembrolizumab vs. Chemotherapy for PD-L1 ≥ 50% NSCLC



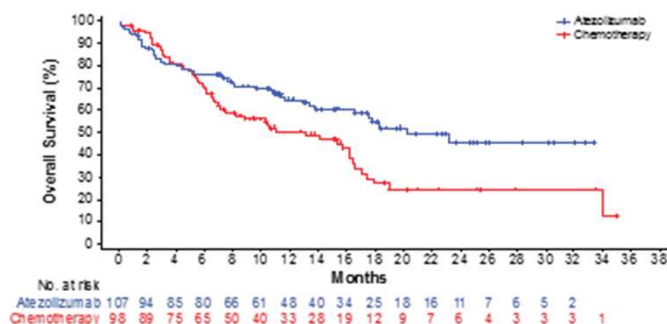
KEYNOTE-042: Pembrolizumab vs. Chemotherapy for PD-L1 $\geq 1\%$ NSCLC



Survival benefit seemed to be driven by the TPS $\geq 50\%$ subset with little benefit witnessed in the subset TPS = 1 - 49%

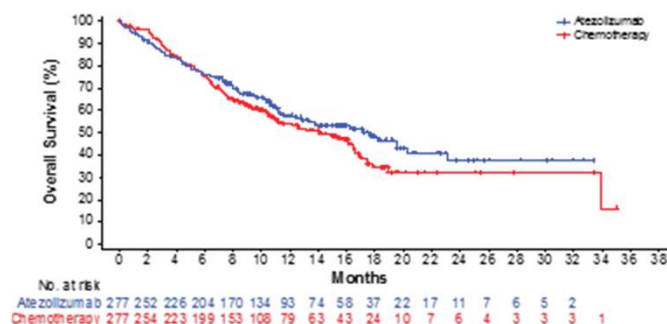
IMpower110: Atezolizumab vs chemotherapy in 1L NSCLC

SP142 (TC3 or IC3-WT)^a



	Atezo (n = 107)	Chemo (n = 98)
mOS, mo	20.2	13.1
HR ^b	0.59	
(95% CI)	(0.40, 0.89)	

SP142 (TC1/2/3 or IC1/2/3-WT)^a

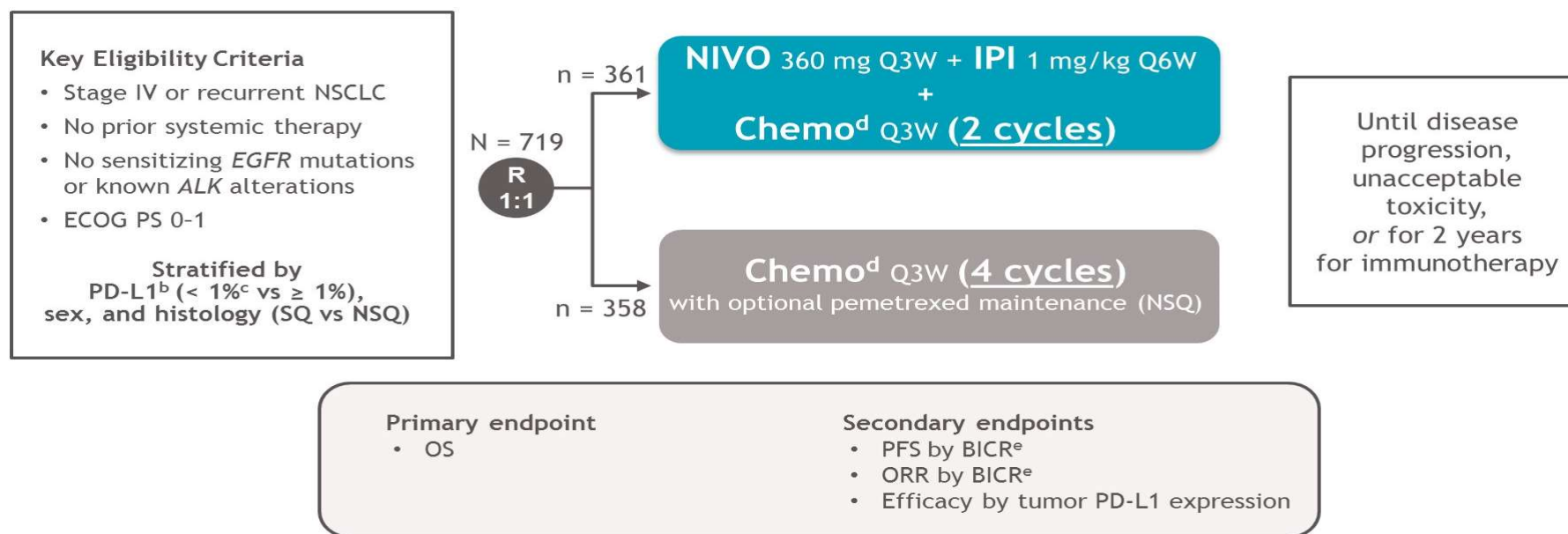


	Atezo (n = 277)	Chemo (n = 277)
mOS, mo	17.5	14.1
HR ^b	0.83	
(95% CI)	(0.65, 1.07)	

TC3 IC3	TC ≥ 50% IC ≥ 10%
TC2/3 IC2/3	TC ≥ 5% IC ≥ 5%
TC1/2/3 IC1/2/3	TC ≥ 1% IC ≥ 1%

Treatments not reliant on PD-L1 expression

CheckMate 9LA: Nivolumab/Ipilimumab + limited chemo study design



Interim database lock: October 3, 2019; minimum follow-up: 8.1 months for OS and 6.5 months for all other endpoints.

Updated database lock: March 9, 2020; minimum follow-up: 12.7 months for OS and 12.2 months for all other endpoints.

^aNCT03215706; ^bDetermined by the PD-L1 IHC 28-8 pharmDx assay (Dako); ^cPatients unevaluable for PD-L1 were stratified to PD-L1 < 1% and capped to 10% of all randomized patients;

^dNSQ: pemetrexed + cisplatin or carboplatin; SQ: paclitaxel + carboplatin; ^eHierarchically statistically tested.

Presented By Martin Reck at ASCO 2020

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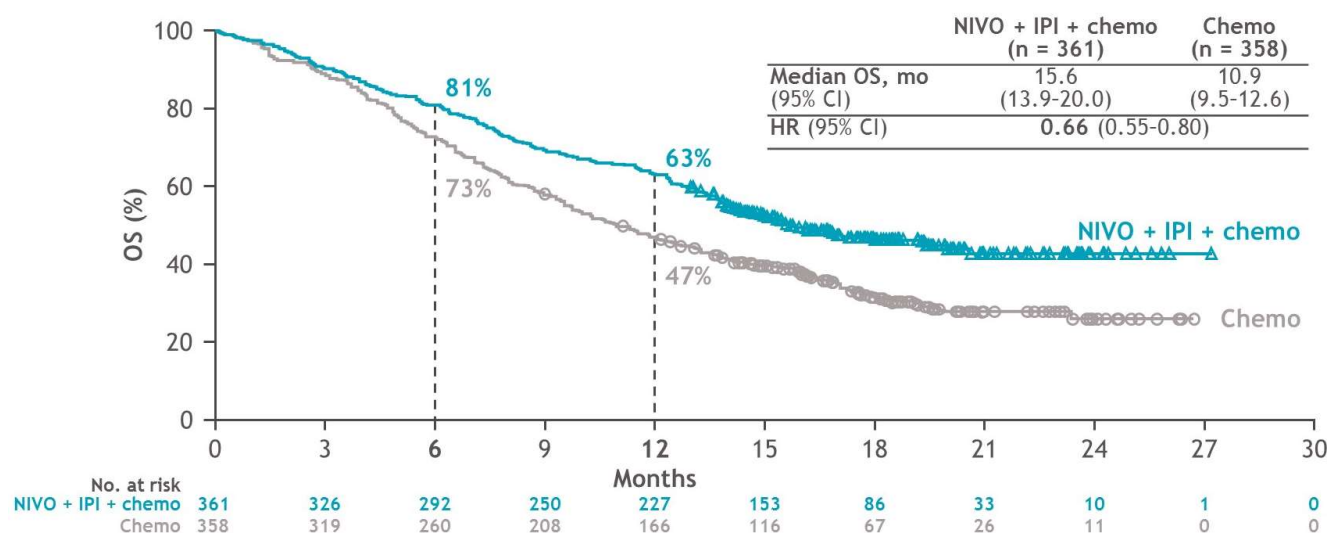
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Gujjarro Munoz,Irene, 12/8/2020

CheckMate 9LA: Nivolumab/Ipilimumab + limited chemo

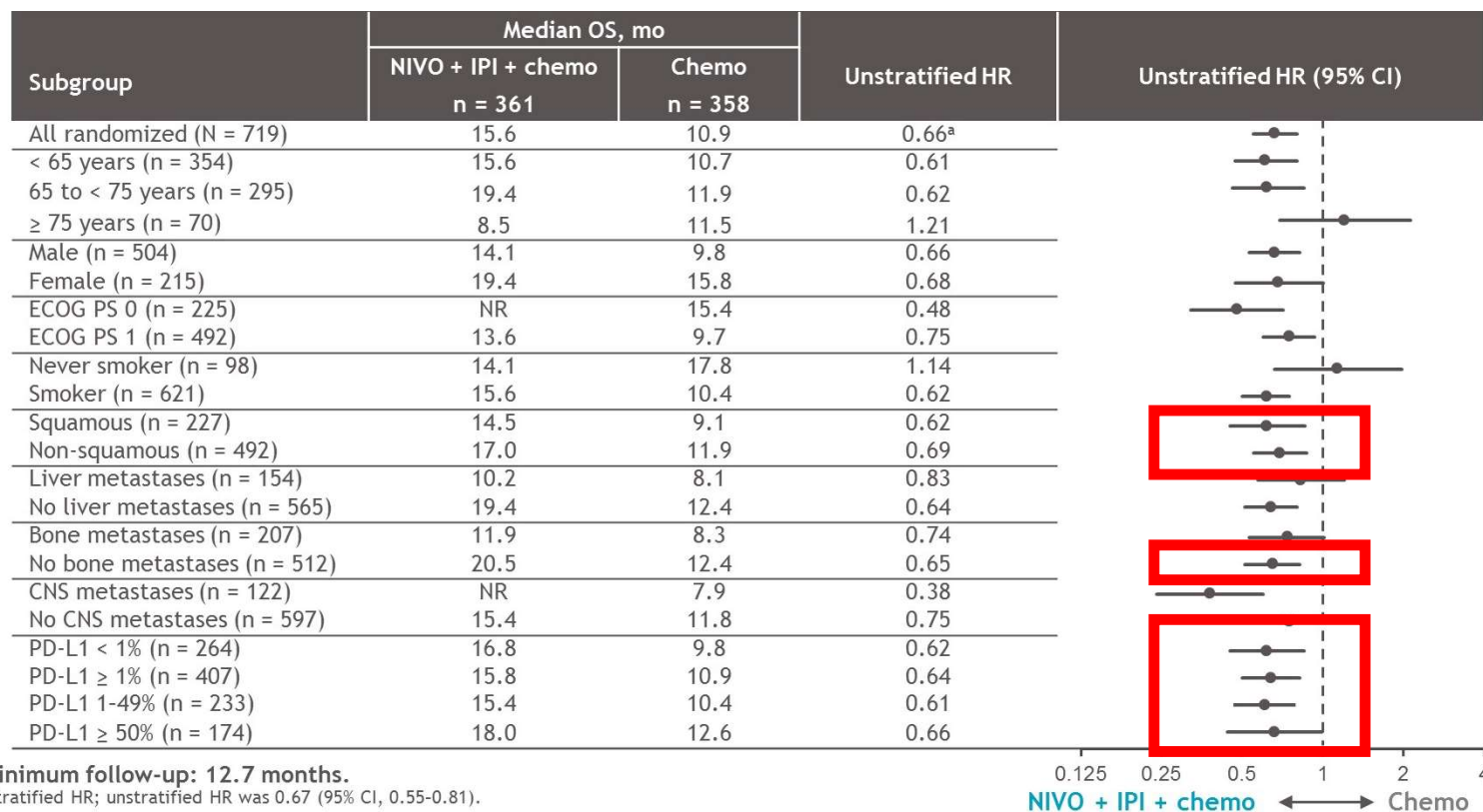
The 9LA regimen improves OS (HR 0.66), PFS, ORR



	NIVO + IPI + chemo (n = 361)	Chemo (n = 358)
ORR, n (%)	138 (38)	89 (25)
Odds ratio (95% CI)	1.9 (1.4-2.6)	
BOR, n (%)		
CR	8 (2)	4 (1)
PR	130 (36)	85 (24)
SD	164 (45)	185 (52)
PD	32 (9)	45 (13)
DCR, n (%)	302 (84)	274 (76)

May 26 2020: US FDA approves the 9LA regimen for all metastatic 1L NSCLC with wt EGFR/ALK, regardless of PD-L1 levels.

Checkmate 9LA study: OS subgroup analysis



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GM7

NEW SLIDE

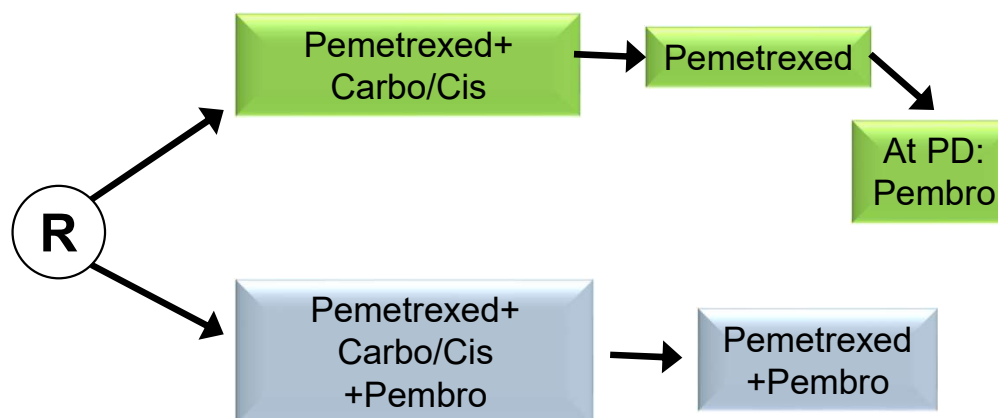
Gujjarro Munoz,Irene, 12/8/2020

Keynote-189: RP3 of pemetrexed/platinum +/- pembro in non-squamous NSCLC (EGFR, ALK wt)

1L nonsquamous NSCLC
N=570, 2:1 randomization
Primary endpoint: PFS, target HR 0.7
Secondary: OS, ORR

Stratification:
PD-L1 prop score (<1% vs ≥1%), smoking status, cis vs carbo

- EGFR, ALK WT
- No active CNS metastases



1L, first-line; ALK, anaplastic lymphoma kinase; Carbo, carboplatin; Cis, cisplatin; CNS, central nervous system; EGFR, epidermal growth factor receptor; HR, hazard ratio; NSCLC, non-small cell lung cancer; ORR, overall response rate; OS, overall survival; PD, progressive disease; PD-L1, programmed death-ligand 1; Pembro, pembrolizumab; PFS, progression-free survival; RP3, randomized phase 3; WT, wild type.
<https://www.businesswire.com/news/home/20180116005680/en/Mercks-KEYTRUDA-pembrolizumab-Significantly-Improved-Survival-Progression-Free>. Accessed Mar 2018.

Gandhi L NEJM 2018

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GM8

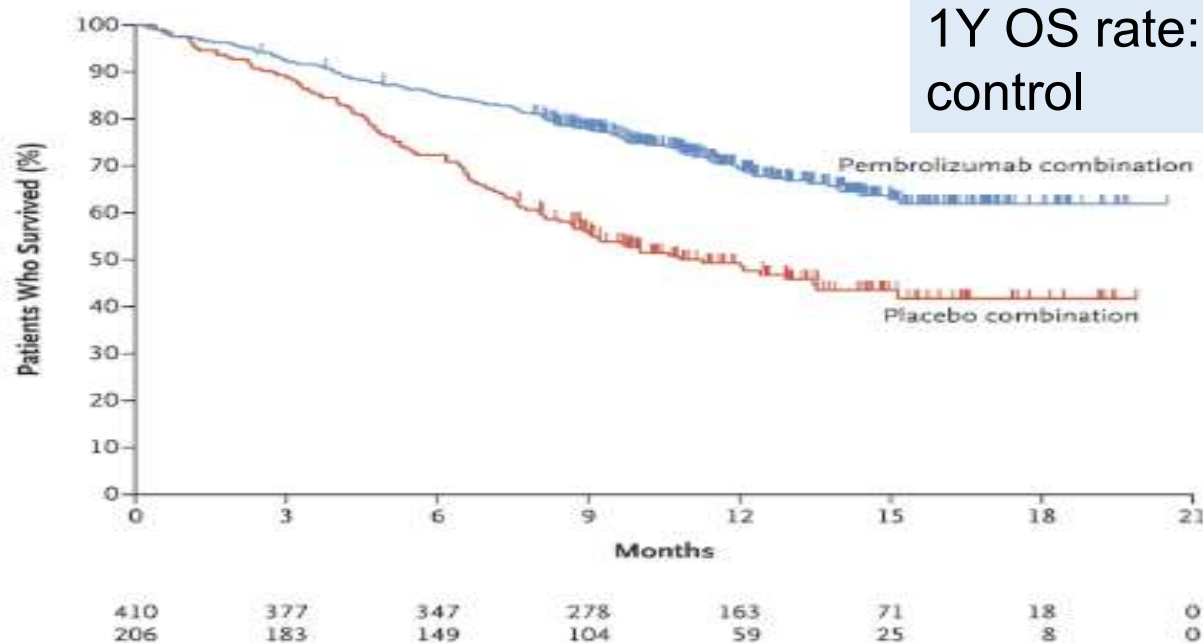
NEW SLIDE

Gujjarro Munoz,Irene, 12/8/2020

Keynote-189: RP3 of pemetrexed/platinum +/- pembro in non-squamous NSCLC (EGFR, ALK wt)

OS HR 0.49 (P<0.001, CI 0.38 to 0.64)

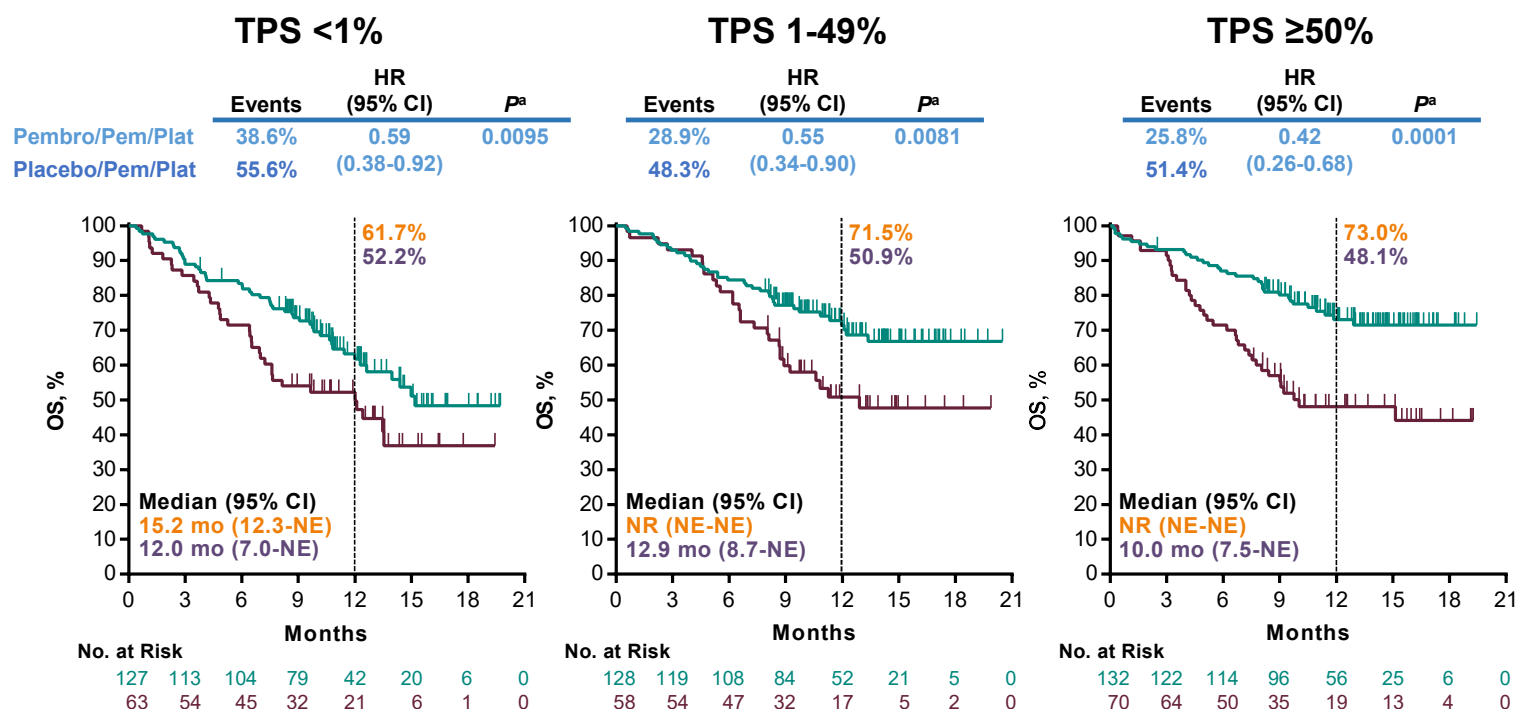
1Y OS rate: 69% pembro vs 49%
 control



Gandhi L NEJM 2018

Bottom line: pembro prolongs OS when added to chemo and is a new standard
 for non-squamous NSCLC regardless of PD-L1 level
 (EGFR, ALK negative)

Keynote 189: OS benefit across PD-L1 subgroups



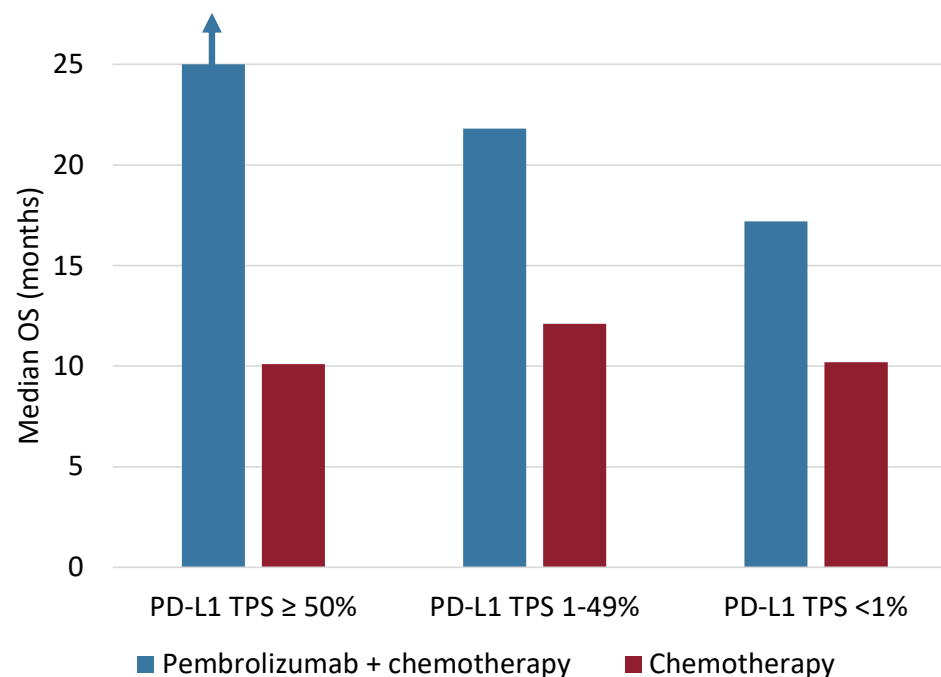
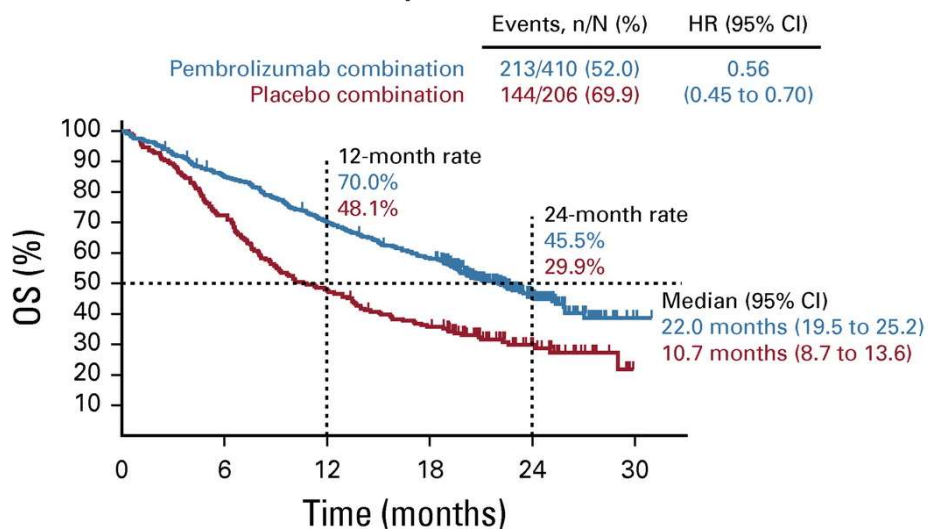
• ^aNominal and one-sided. Data cutoff date: Nov 8, 2017.

Gandhi et al, AACR 2018; Gandhi et al, NEJM 2018

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GM10 Guijarro Munoz,Irene, 12/8/2020

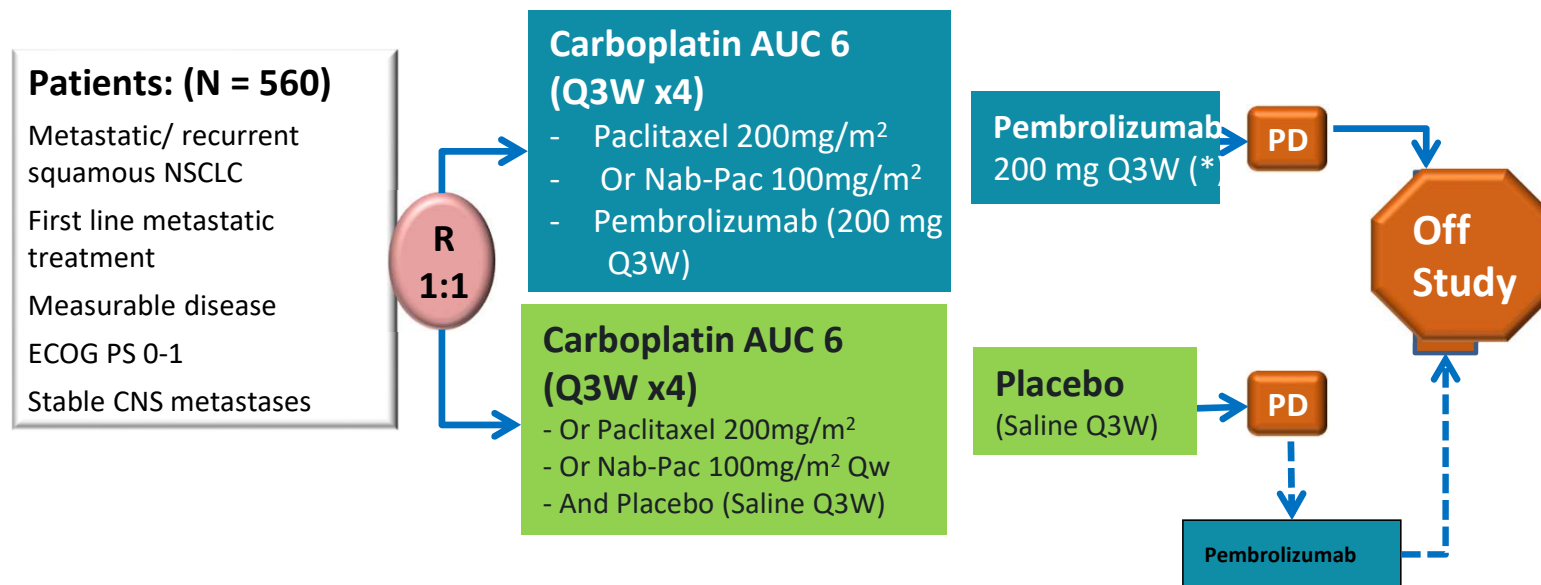
KEYNOTE-189: Pembrolizumab/chemotherapy vs Chemotherapy Alone for Advanced Non-Squamous NSCLC



KEYNOTE 407 (Squamous NSCLC)

First line pembrolizumab + chemotherapy (carboplatin + paclitaxel/nab-paclitaxel) combination study

NEW



- **Primary Endpoint:** Overall and Progression Free Survival
- **Secondary Endpoints:** ORR, AE
- **Exploratory Endpoints:** QoL

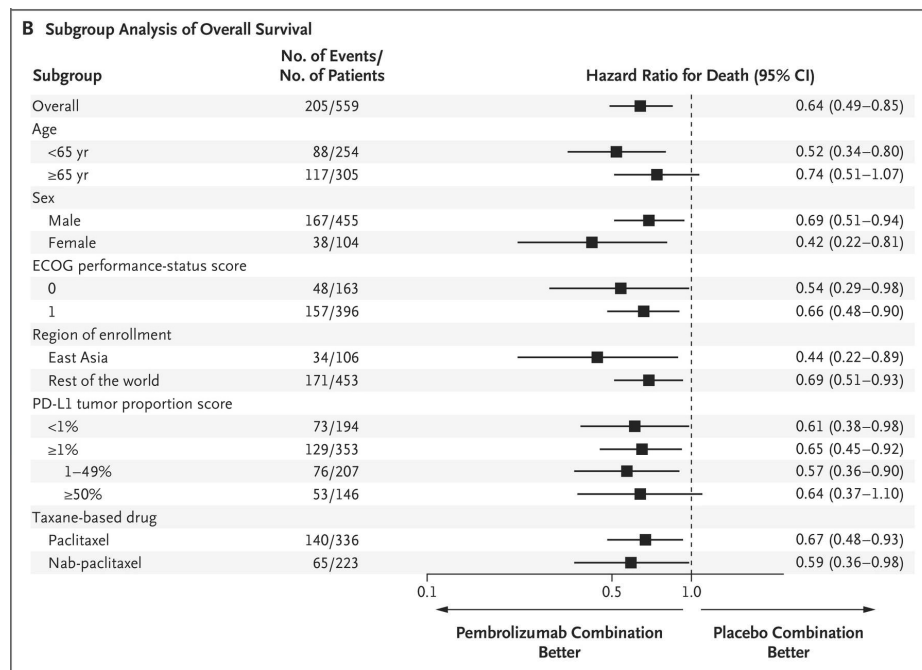
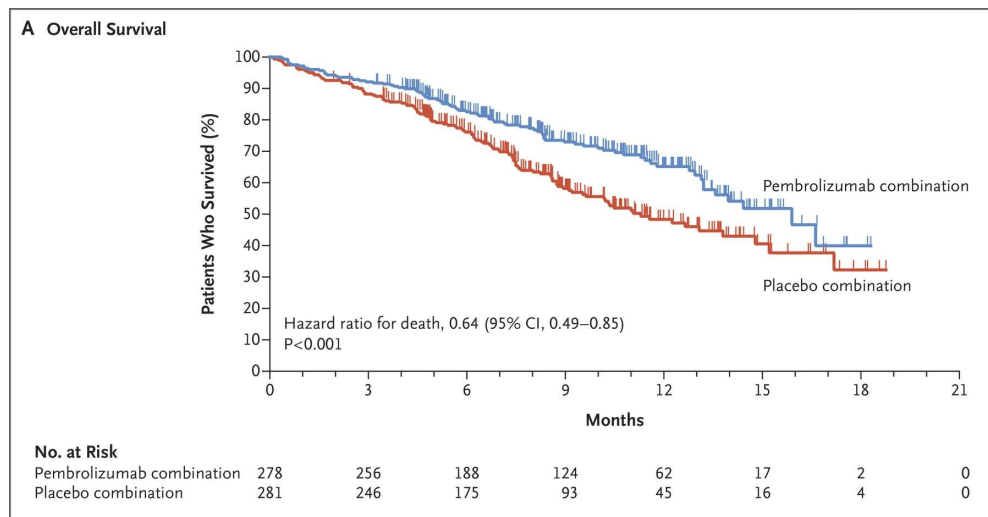
Stratify:
 PD-L1 TPS score: ≥1% vs <1%
 Paclitaxel vs nab-paclitaxel

Paz-Ares NEJM 2018

* Up to 2 years

AE, adverse event; AUC, area under the curve; CNS, central nervous system; ECOG, Eastern Cooperative Oncology Group; NSCLC, non-small cell lung cancer; ORR, overall response rate; PD, progressive disease; PD-L1, programmed death-ligand; Q3W, every 3 weeks; QoL, quality of life.

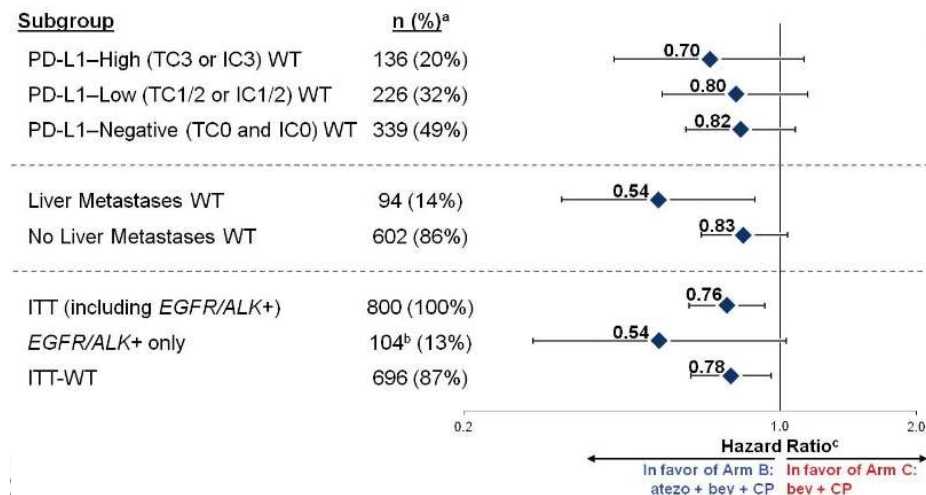
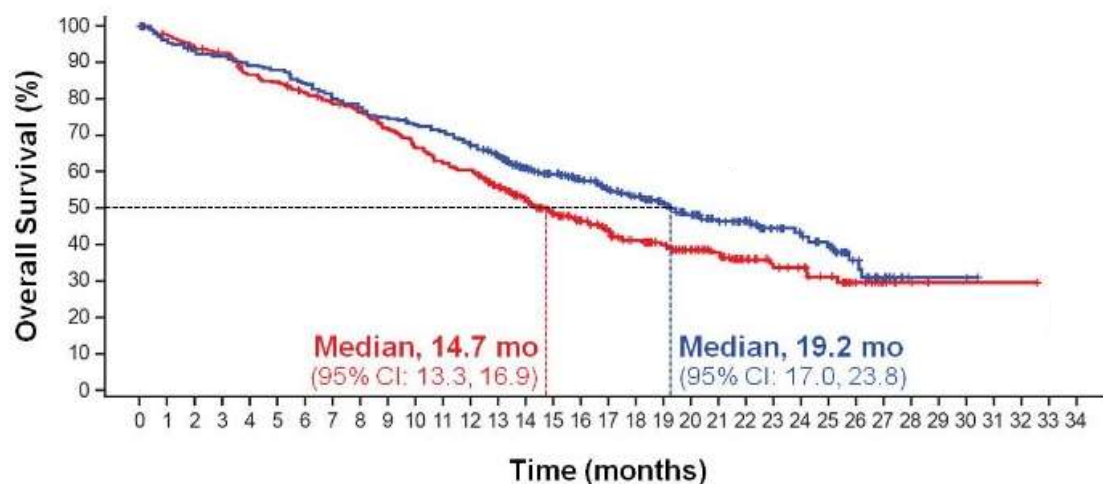
KEYNOTE-407: Pembrolizumab/Chemotherapy vs Chemotherapy Alone for Advanced Squamous-Cell NSCLC



IMpower150: Atezolizumab/Carboplatin/ Paclitaxel/Bevacizumab vs Carboplatin/ Paclitaxel/ Bevacizumab in Advanced Non-Squamous NSCLC

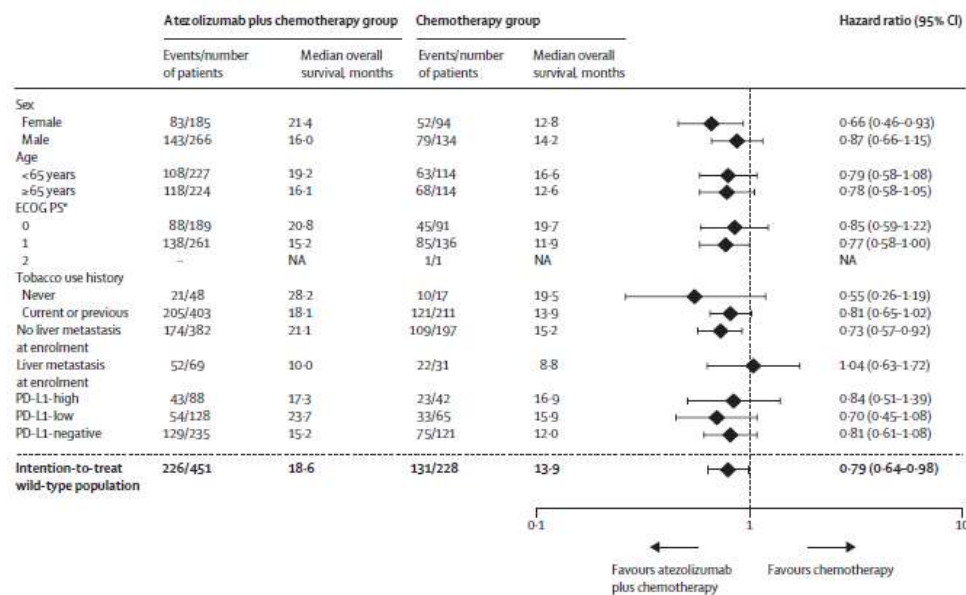
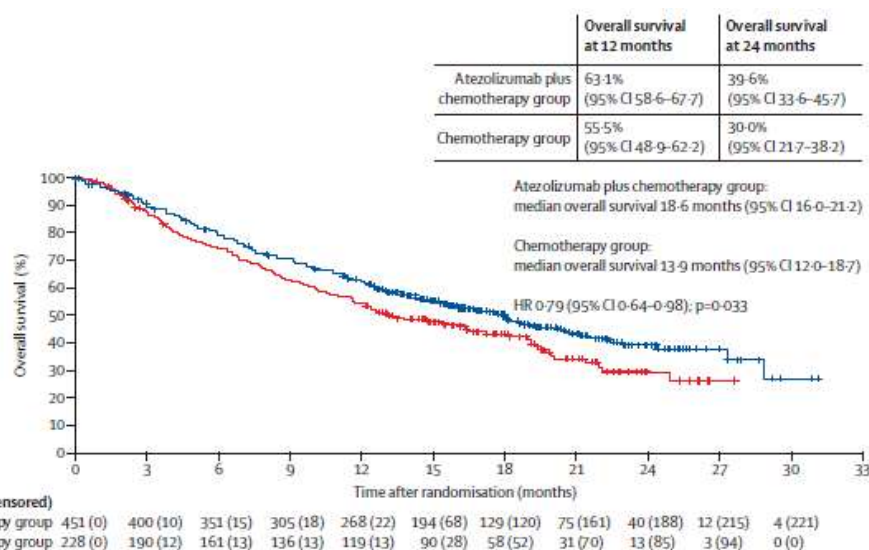
Landmark OS, %	Arm B: atezo + bev + CP	Arm C: bev + CP
12-month	67%	61%
18-month	53%	41%
24-month	43%	34%

HR^a, 0.78
 (95% CI: 0.64, 0.96)
P = 0.0164
 Median follow-up: ~20 mo



EE15 <https://www.abstractsonline.com/pp8/#!/9045/presentation/10719>
Emily Ehlerding, 7/27/2020

IMpower130: Atezolizumab + chemo vs chemo alone for non-squamous NSCLC



Immunotherapy for relapsed/refractory NSCLC

Drug	Indication	Dose
Nivolumab	Metastatic squamous or non-squamous NSCLC with progression after chemotherapy (2 nd line)	240 mg Q2W or 480 mg Q4W
Pembrolizumab	Metastatic NSCLC with progression after chemotherapy and PD-L1 ≥ 1%	200 mg Q3W or 400 mg Q6W
Atezolizumab	Metastatic NSCLC with progression after Pt-chemotherapy and targeted therapy if EGFR/ALK mutation-positive	840 mg Q2W, 1200 mg Q3W, or 1680 mg Q4W

Second-line use of ICI in NSCLC

Study	Treatment arms	ORR	Median PFS (months)	Median OS (months)
CheckMate 017 and CheckMate 057	Nivolumab	19%	2.56	11.1
	Docetaxel	11%	3.52	8.1
KEYNOTE-010 (PD-L1 TPS ≥ 1%)	Pembrolizumab	18%	4.0	12.7
	Docetaxel	9%	4.0	8.5
OAK	Atezolizumab	14%	2.8	13.8
	Docetaxel	13%	4.0	9.6

Vokes, Ann Oncol 2018.
 Herbst, Lancet 2016.
 Fehrenbacher, J Thorac Oncol 2018.

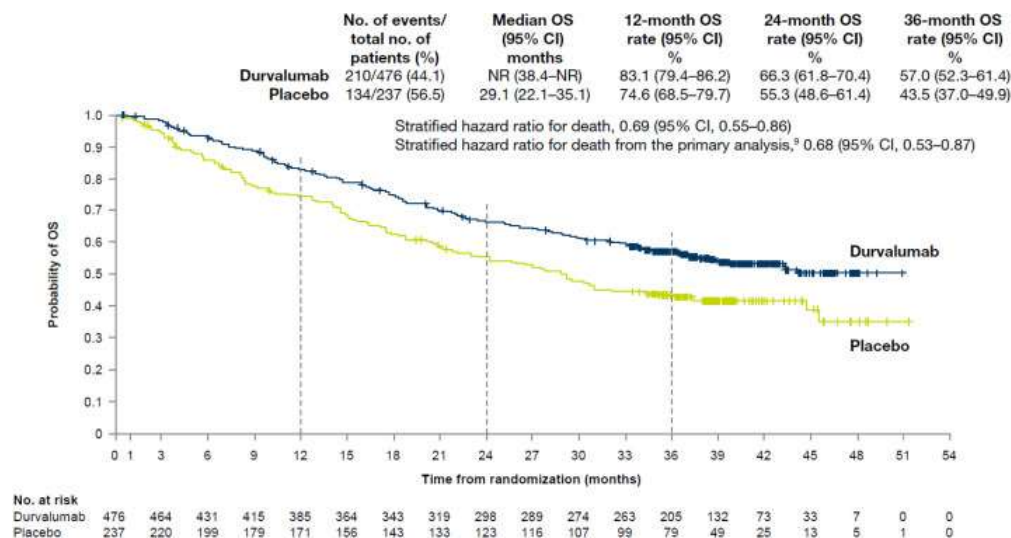
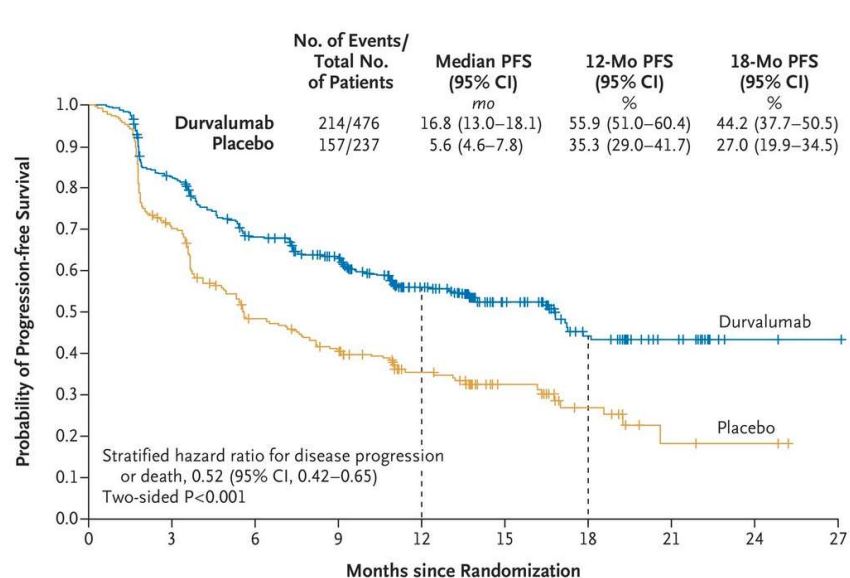
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Immunotherapy for stage III NSCLC

Drug	Indication	Dose
Durvalumab	Stage III NSCLC, ineligible for surgery and without progression after chemoradiation	10 mg/kg Q2W
Pembrolizumab	1 st line stage III NSCLC (not candidate for resection or definitive chemoradiation) with PD-L1 TPS ≥ 1%	200 mg Q3W or 400 mg Q6W

PACIFIC: durvalumab consolidation therapy for stage III NSCLC



Antonia, N Engl J Med 2017.
Gray, J Thorac Oncol 2020.

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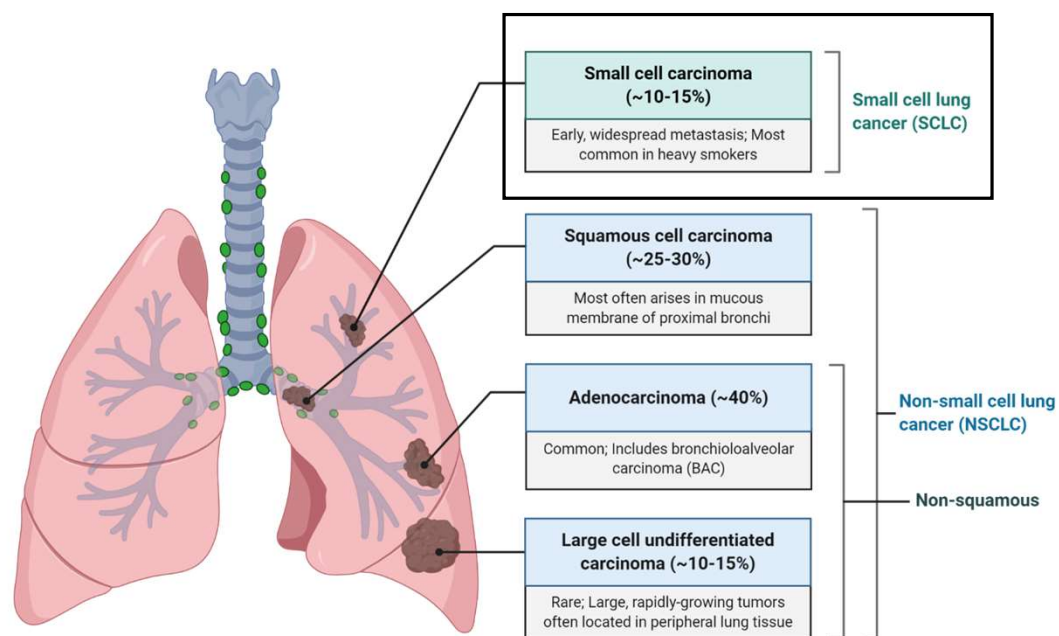
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Outline

- Non-small cell lung cancer
 - Front-line – PD-L1-selected and unselected
 - Later lines of treatment
 - Stage III
- Small cell lung cancer
- Future directions for lung cancer immunotherapy

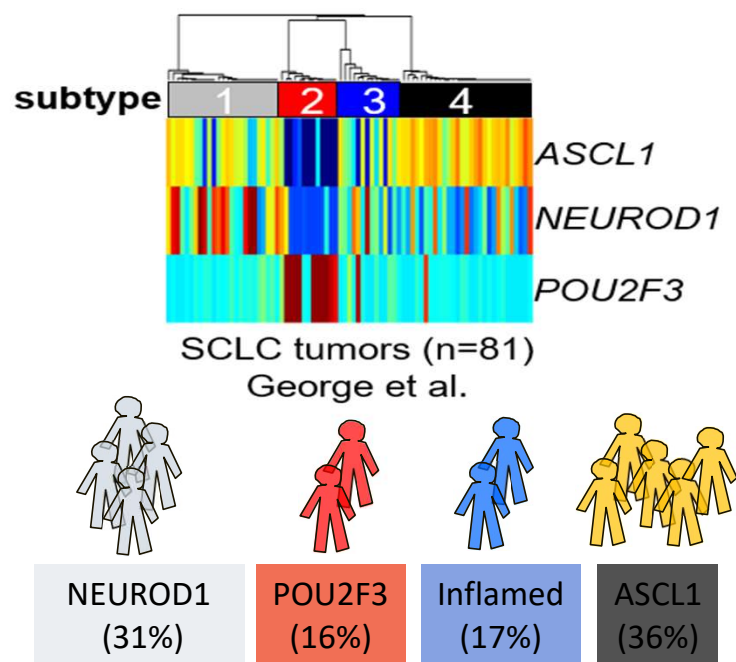
Small cell lung cancer

- Median survival 1-2 years after diagnosis
- Until recently, only one FDA-approved 2nd line option: topotecan – DOR: 3.3 months
- Recent approvals of immunotherapies mark the first progress in decades

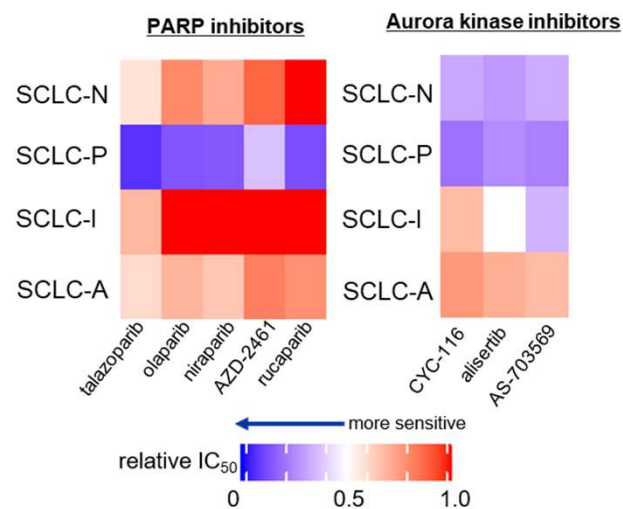


New advances in the treatment of small cell lung cancer (SCLC)

SCLC



The four new targetable subgroups of SCLC showed differential response to drugs



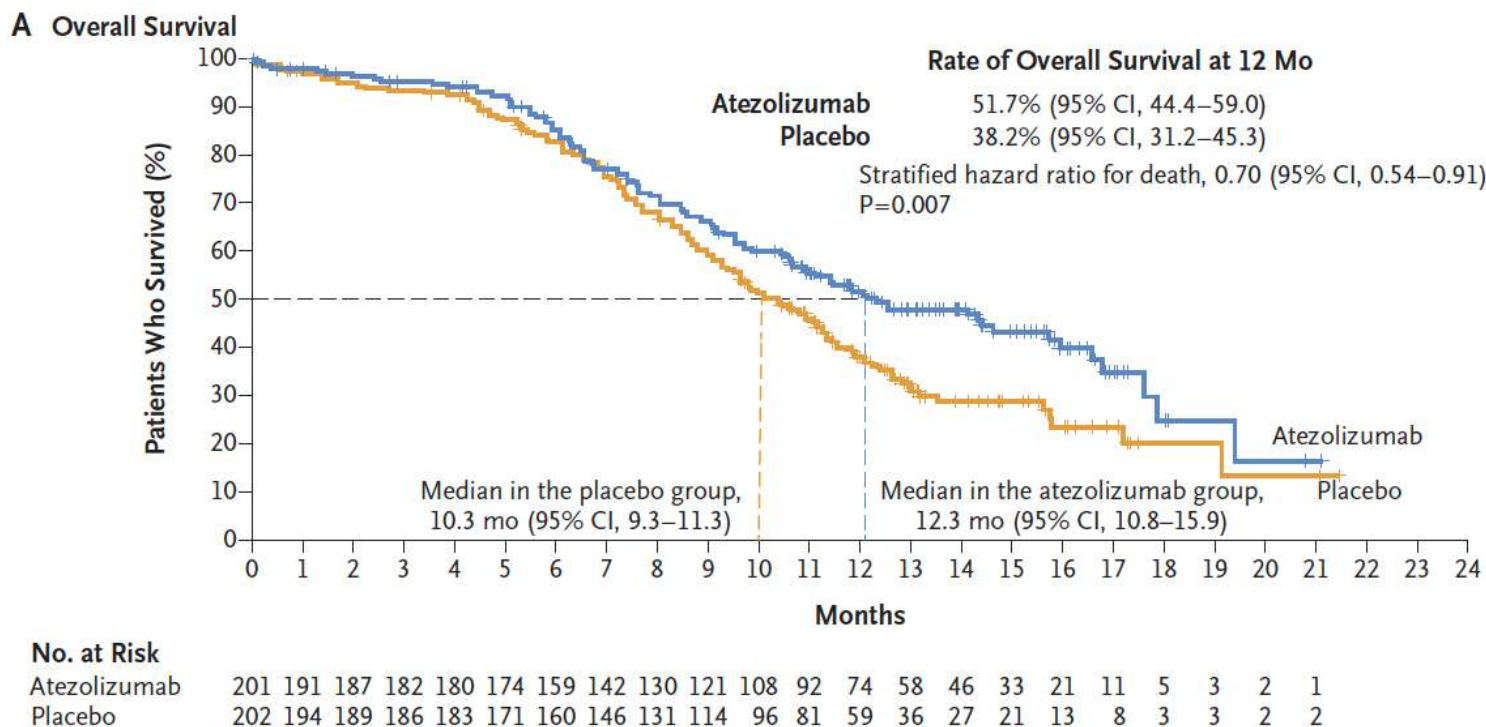
New clinical trials testing aurora kinase inhibitors in SCLC (PI: Byers/Gay)

Gay et al Cancer Cell In press

Approved checkpoint inhibitors in SCLC

Drug	Indication	Dose
Nivolumab	Metastatic small cell lung cancer with progression on Pt-chemotherapy and one other therapy (3rd line)	240 mg Q2W
Pembrolizumab	Metastatic small cell lung cancer with progression on Pt-chemotherapy and one other therapy (3rd line)	200 mg Q3W
Atezolizumab + carboplatin + etoposide	1st line extensive stage SCLC	For 4 cycles: atezolizumab 1200 mg + carboplatin + etoposide Q3W Maintenance: 840 mg Q2W, 1200 mg Q3W, or 1680 mg Q4W
Durvalumab + etoposide + carboplatin/cisplatin	1st line extensive stage SCLC	For 4 cycles: 1500 mg durvalumab Q3W + chemotherapy; Maintenance: 1500 mg durvalumab Q4W

Impower 133: the addition of atezolizumab to carbo/etoposide prolongs OS in ES SCLC

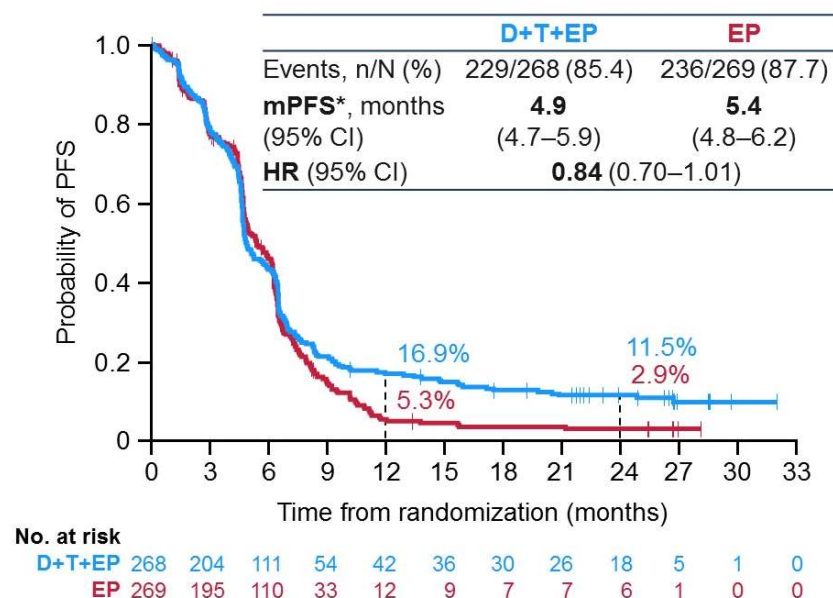


First immunotherapy drug (or targeted agent) to improve OS in ES SCLC in RP3 trial!

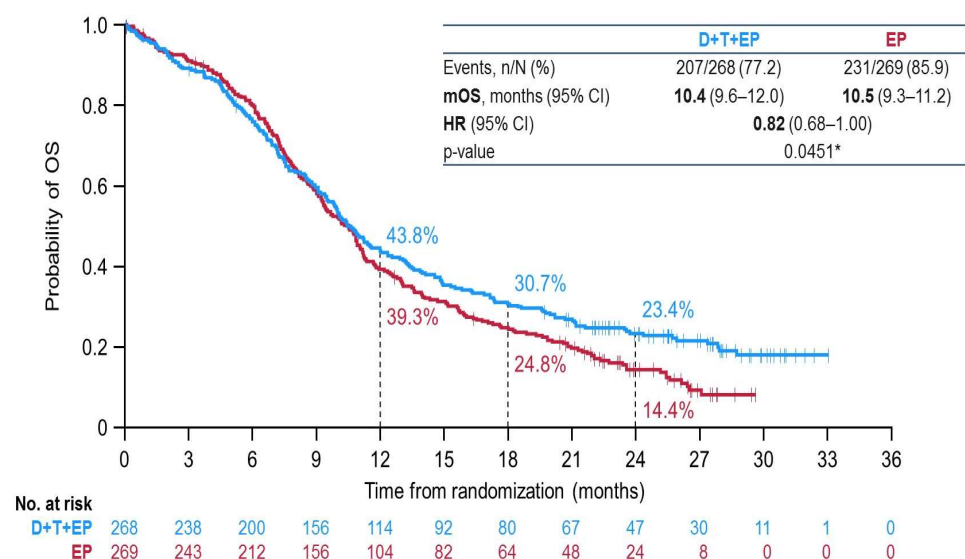
Horn et al, NEJM 2018

Durvalumab ± tremelimumab + platinum-etoposide in first-line extensive-stage SCLC (ES-SCLC): phase III CASPIAN study

PFS



Overall Survival: D+T+EP vs EP (Primary Endpoint)



Presented By Luis Paz-Ares ASCO 2020

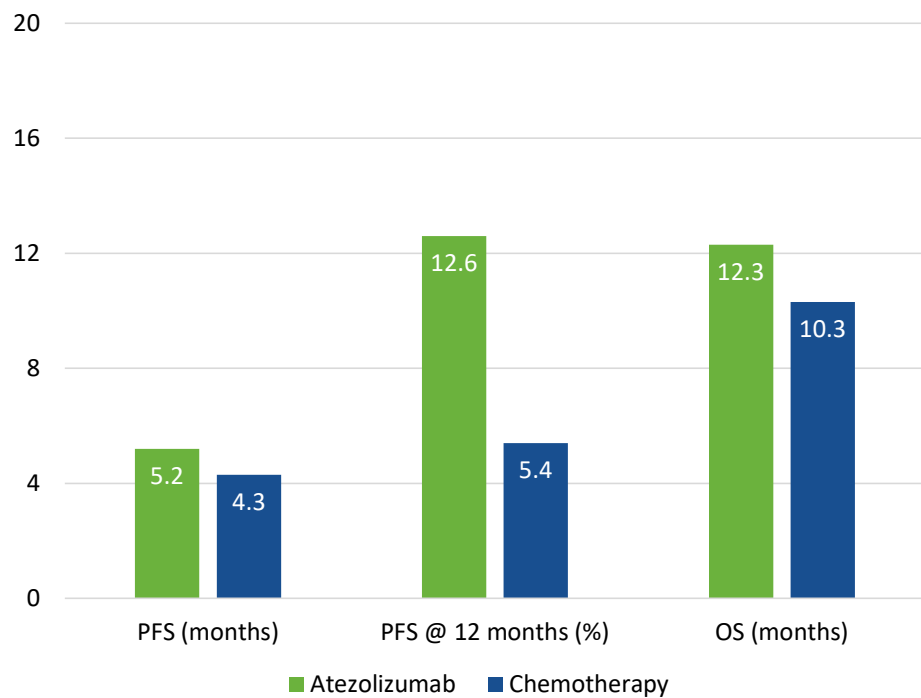
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Slide 41

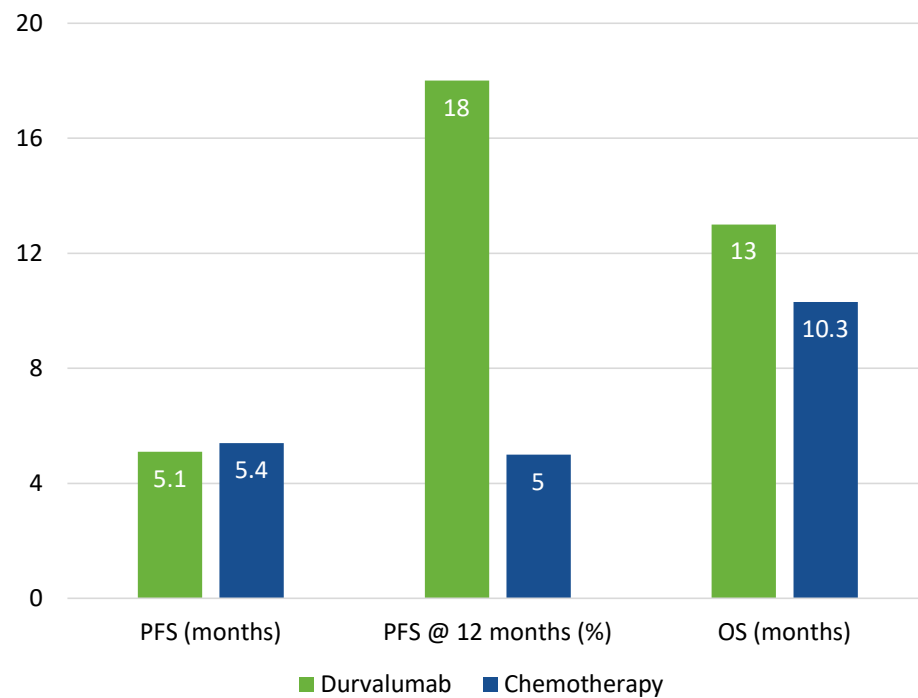
GM13 Guijarro Munoz,Irene, 12/8/2020

Front-line ICI in SCLC

IMpower133



CASPIAN

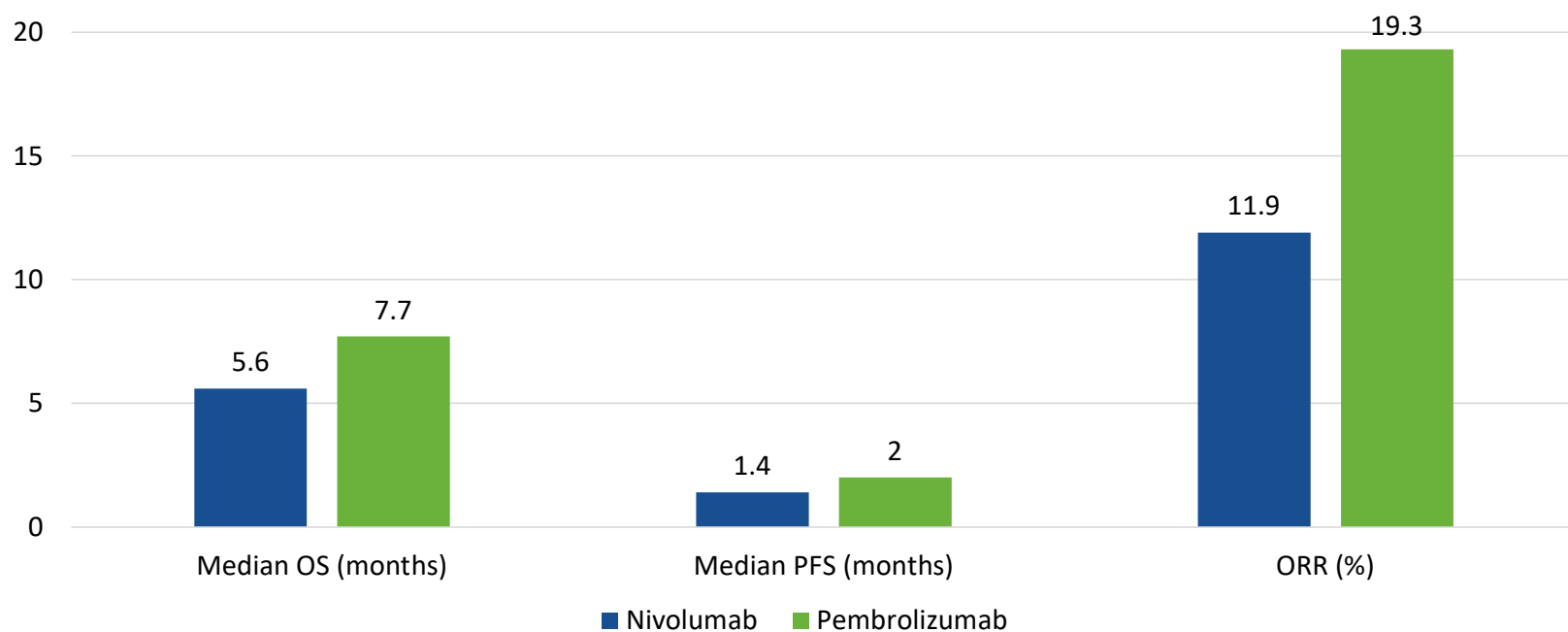


Huang, J Hematol Oncol 2020.

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Later-line ICI in SCLC



Ready, J Thorac Oncol 2019.
 Chung, J Thorac Oncol 2020.
 Ott, J Clin Oncol 2017.

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Outline

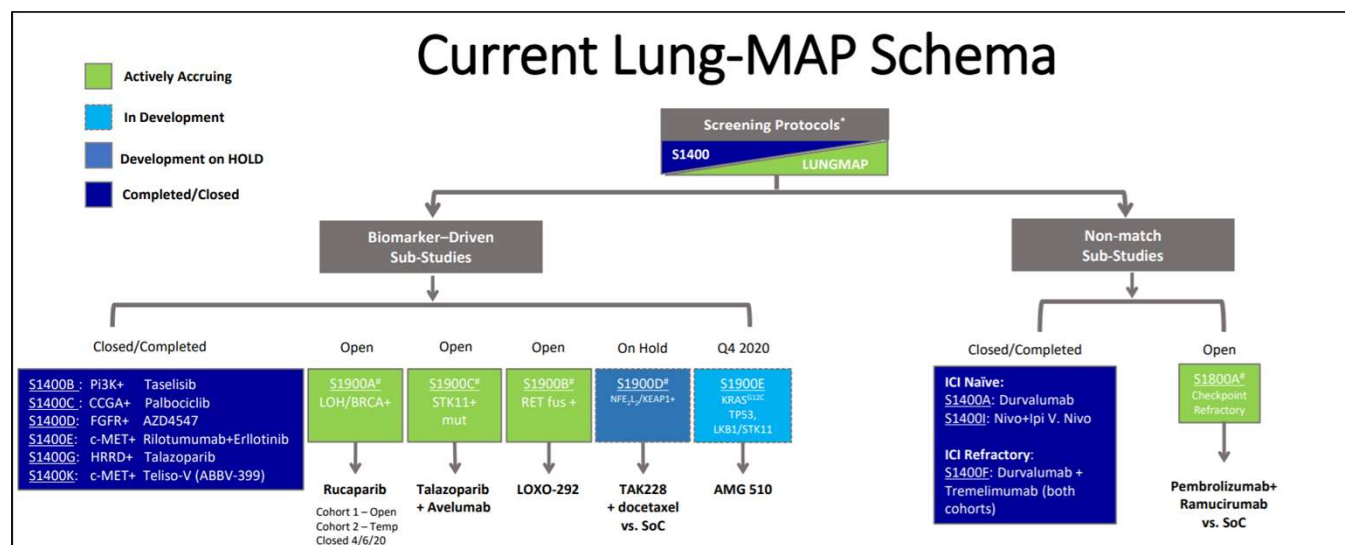
- Non-small cell lung cancer
 - Front-line – PD-L1-selected and unselected
 - Later lines of treatment
 - Stage III
- Small cell lung cancer
- Future directions for lung cancer immunotherapy

In development: answering outstanding questions

- Biomarker-driven treatment
- Timing of different treatments and combinations
- Emerging toxicities

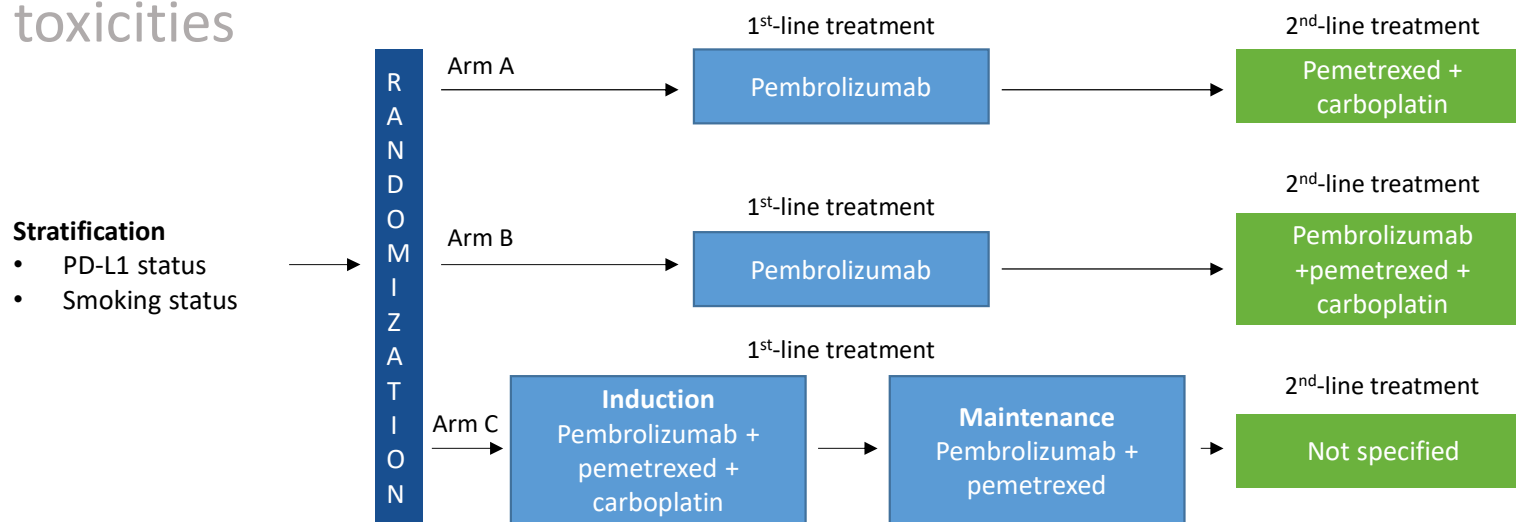
In development: answering outstanding questions

- Biomarker-driven treatment
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- Emerging toxicities



In development: answering outstanding questions

- Biomarker-driven treatment
- Timing of different treatments and combinations
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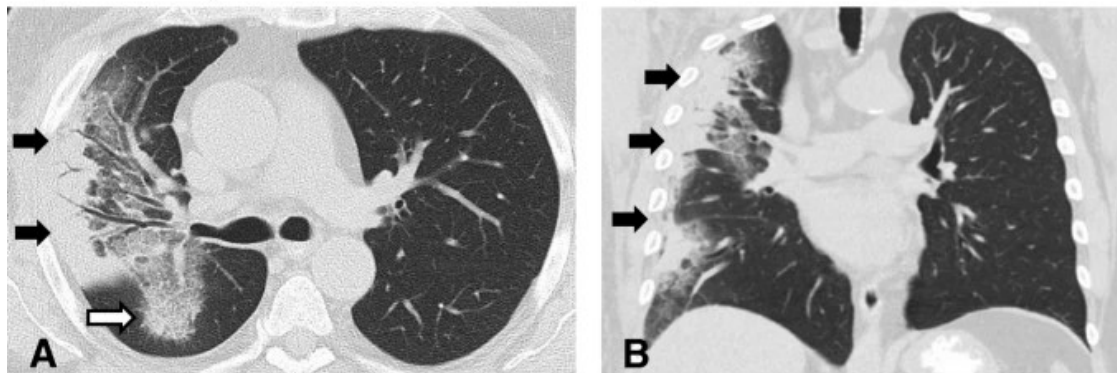
In development: answering outstanding questions

- Biomarker-driven treatment
- Timing of different treatments and combinations
- Emerging toxicities – radiation and ICIs



Axillary radiation treatment field from September-October 2017 demonstrating overlap with peripheral lung.

Chest CT performed 5 months after completing right axillary radiotherapy (March 2018) and 1.5 months after initiating nivolumab therapy



Schoenfeld, J Immunother Cancer 2019.

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Conclusions

- NSCLC has been a proving ground for checkpoint inhibitors
- Many front-line options available for NSCLC
- Clear-cut biomarkers still lacking
- SCLC is beginning to benefit from immune checkpoint inhibitor treatments

Brahmer et al. *Journal for Immunotherapy of Cancer* (2018) 6:75
<https://doi.org/10.1186/s40425-018-0382-2>

Journal for Immunotherapy
of Cancer

POSITION ARTICLE AND GUIDELINES

Open Access

The Society for Immunotherapy of Cancer consensus statement on immunotherapy for the treatment of non-small cell lung cancer (NSCLC)



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Matthew D. Hellmann¹¹, Fred R. Hirsch¹², Shakuntala Malik¹³, Joel W. Neal¹⁴, Vassiliki A. Papadimitrakopoulou¹⁵,
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Case Study 1

- A 60 year old man with a 15 packyear history of smoking in his twenties presents with two episodes of hemoptysis (~10cc) and is found to have metastatic lung adenocarcinoma with multiple liver and bone metastases.
- MRI brain shows a 6mm lesion in the right frontal lobe. He is neurologically asymptomatic.
- His PDL1 is 0%. He is eager to initiate treatment.

1. Which of the following do you recommend?

- A. Initiate treatment with carboplatin/pemetrexed/pembrolizumab (KN189)
- B. Initiate treatment with ipilimumab/nivolumab (CM 227)
- C. Await results of molecular profiling of EGFR, ALK, and other driver oncogenes.
- D. Initiate treatment with chemotherapy alone.

Case Study 1

- He is found to be EGFR and ALKwt and have a KRAS G12V mutation.

2. Which of the following regimens would you recommend?

- A. Pembrolizumab.
- B. Ipilimumab and nivolumab (CM 227)
- C. carboplatin/pemetrexed/pembrolizumab (KN189)
- D. Carboplatin/pemetrexed/ipilimumab/nivolumab (9-LA)
- E. Carboplatin/paclitaxel/atezolizumab/bevacizumab.

Case Study 1

He states that his highest priority is to minimize the amount of chemotherapy he receives.

2. Which of the following approved regimens do you recommend?

- A. Pembrolizumab.
- B. Ipilimumab and nivolumab (CM 227)
- C. carboplatin/pemetrexed/pembrolizumab (KN189)
- D. Carboplatin/pemetrexed/ipilimumab/nivolumab (9-LA)
- E. Carboplatin/paclitaxel/atezolizumab/bevacizumab.

Case Study 2

- A 70 year old man with a history of Hodgkin's disease treated with mantle field radiotherapy in 1970, and 10 packyear smoking, presents with stage 3A squamous lung cancer with a 4.5 cm primary and multiple ipsilateral mediastinal LNs involved (T2N2M0). He is EGFR and ALK wt, PD-L1 20%. He has been told that he cannot receive additional RT to his lungs or mediastinum.
1. Which of the following regimens are approved in this setting?
 - A. Durvalumab (Pacific regimen)
 - B. Pembrolizumab
 - C. Ipilimumab/nivolumab (Checkmate 227)
 - D. Carboplatin/paclitaxel/ipilimumab/nivolumab (9-LA regimen)