



## CARCINOMA DEL POLMONE NON MICROCITOMA: QUALI NOVITA' PER IL 2016?

Coordinatore scientifico  
Stefania Gori

**VERONA**  
**8-9 APRILE 2016**  
Hotel Leon d'Oro



# Quale impatto sulla pratica clinica?

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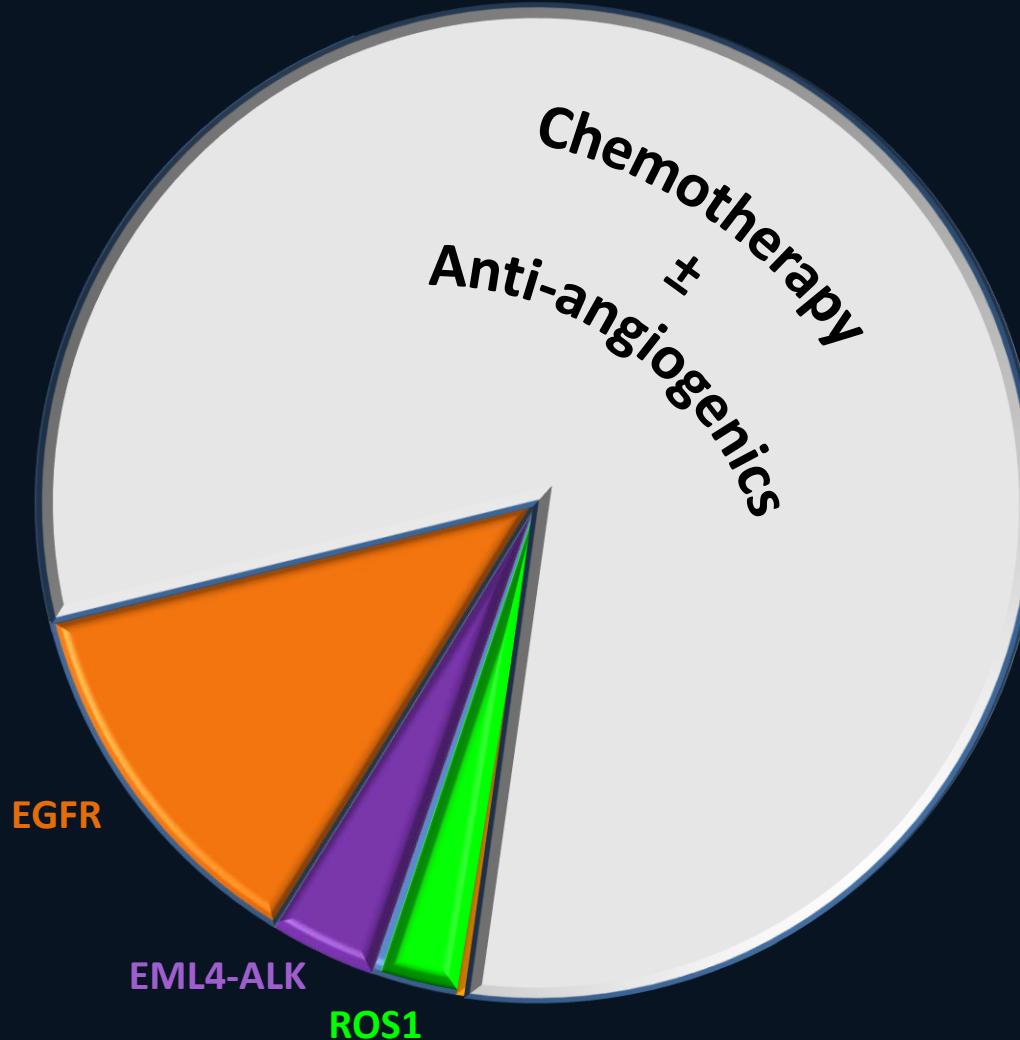
SS Oncologia Medica Toraco Polmonare

Fondazione IRCCS

Istituto Nazionale dei Tumori

Milano

# Clinical practice 2015

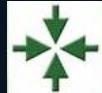


# Chemotherapy in 2nd-line NSCLC

- Docetaxel is standard in 2nd-line NSCLC
- Docetaxel has median survival of ~9 months<sup>1</sup>
- Docetaxel is hampered by important toxicity
- The addition of anti-angiogenics improves docetaxel efficacy
  - ✓ Ramucirumab in all histologies (HR 0.86 [95% CI 0.75, 0.98])<sup>2</sup>
  - ✓ Nintedanib in adenocarcinoma (HR 0.79 [95% CI 0.60, 0.92])<sup>3</sup>



# 2015



# Scenario attuale

## ✓ 2 anti PD-1:

1. **NIVOLUMAB** *All comers (squamoso e non squamoso)*
2. **PEMBROLIZUMAB** *con selezione*

## ✓ 3 anti PD-L1:

1. **ATEZOLIZUMAB** *con selezione*
2. **DURVALUMAB** *con selezione*
3. **AVELUMAB** *All comers*



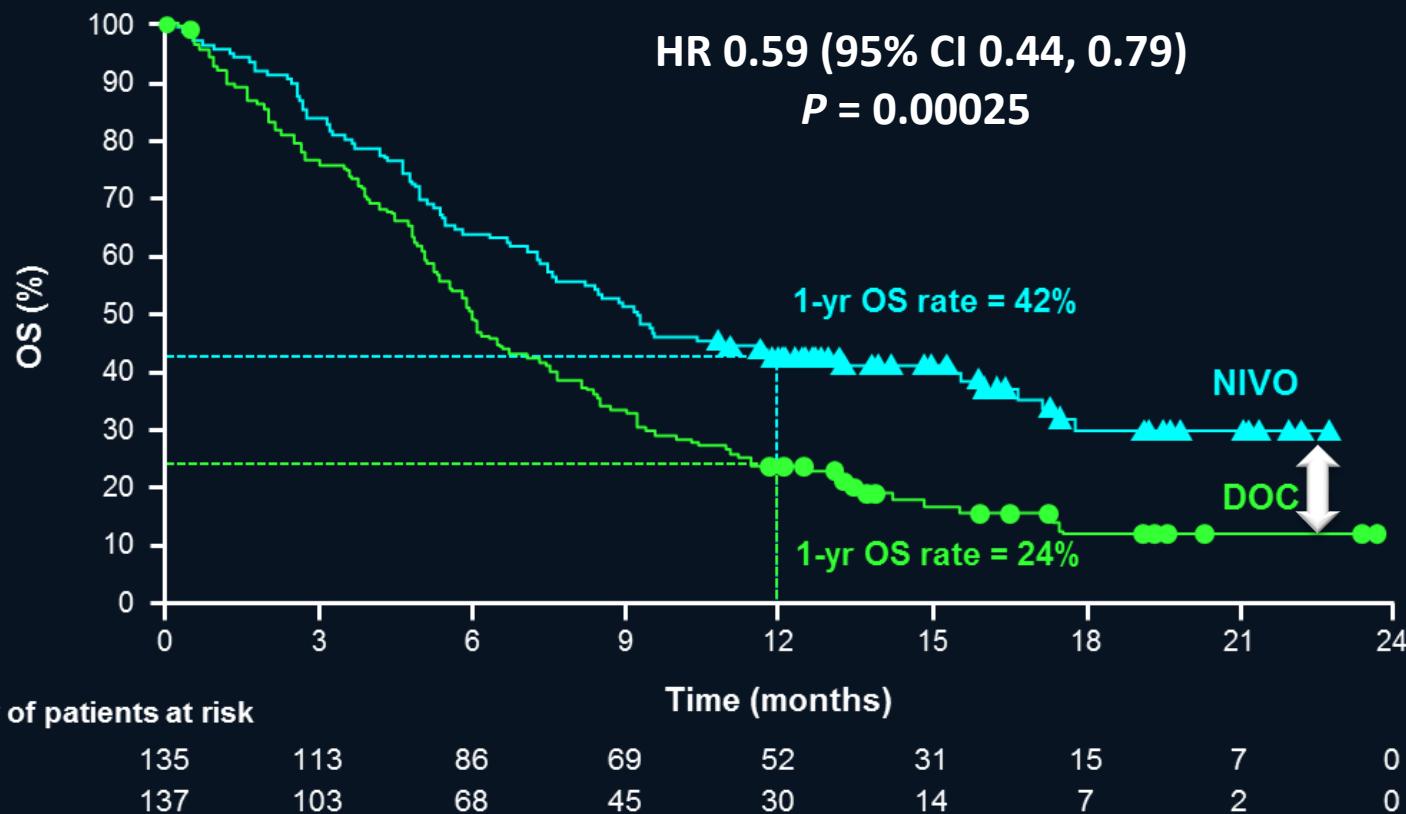
# Nella pratica clinica

- Anti PD-1 o anti PD-L1 ?
- Abbiamo criteri per la selezione dei pazienti?
- Quale tossicità?
- Quale terapia in seconda linea?



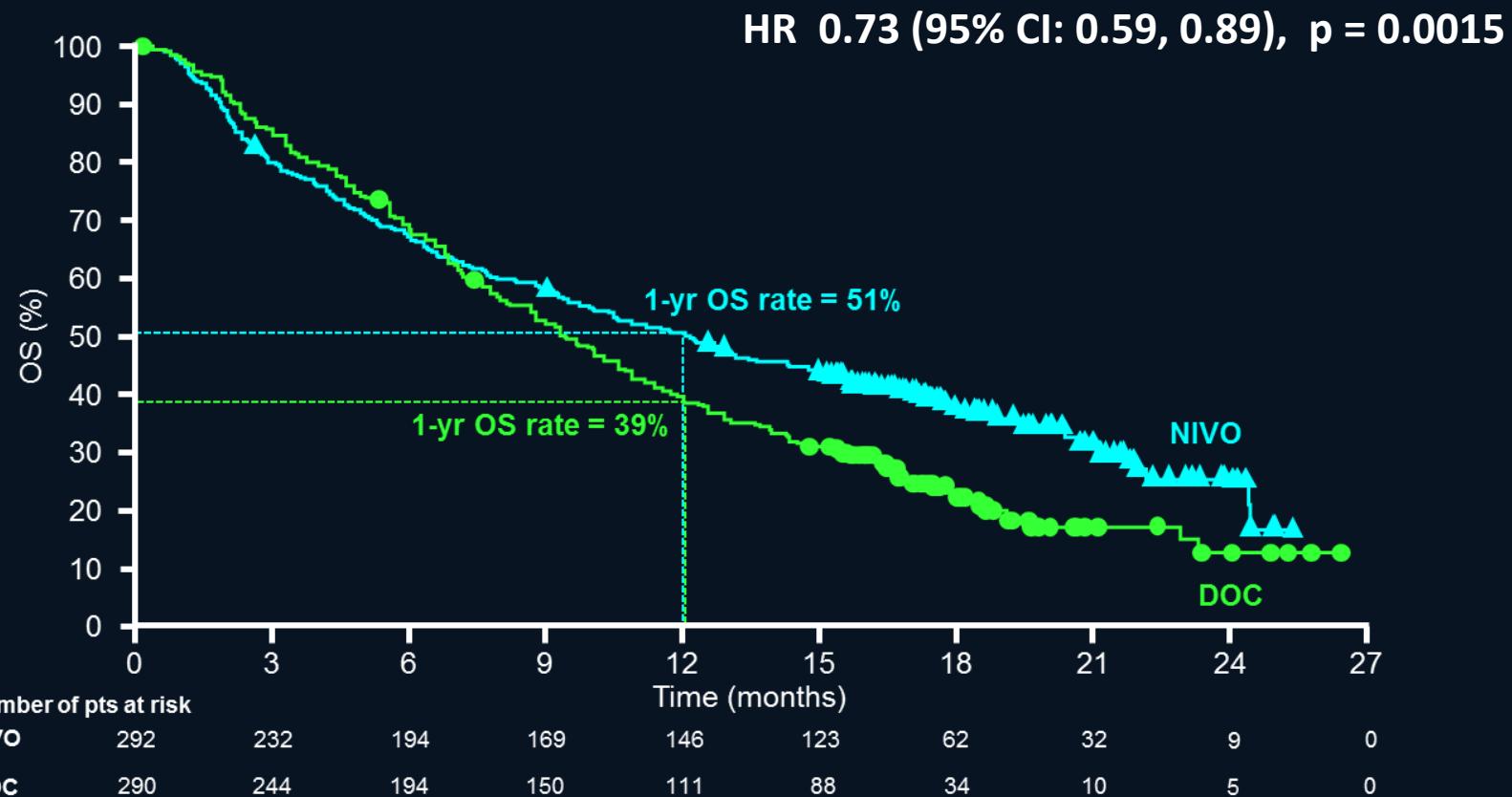
# CHECKMATE-017 interim analysis

Nivolumab vs docetaxel squamous 2nd-line



# CheckMate 057 (interim analysis)

Nivolumab vs docetaxel non squamous 2nd-line



# Is nivolumab more effective in squamous than adenocarcinoma?

## CHECKMATE-017 Squamous

HR 0.59 (95% CI 0.44, 0.79)

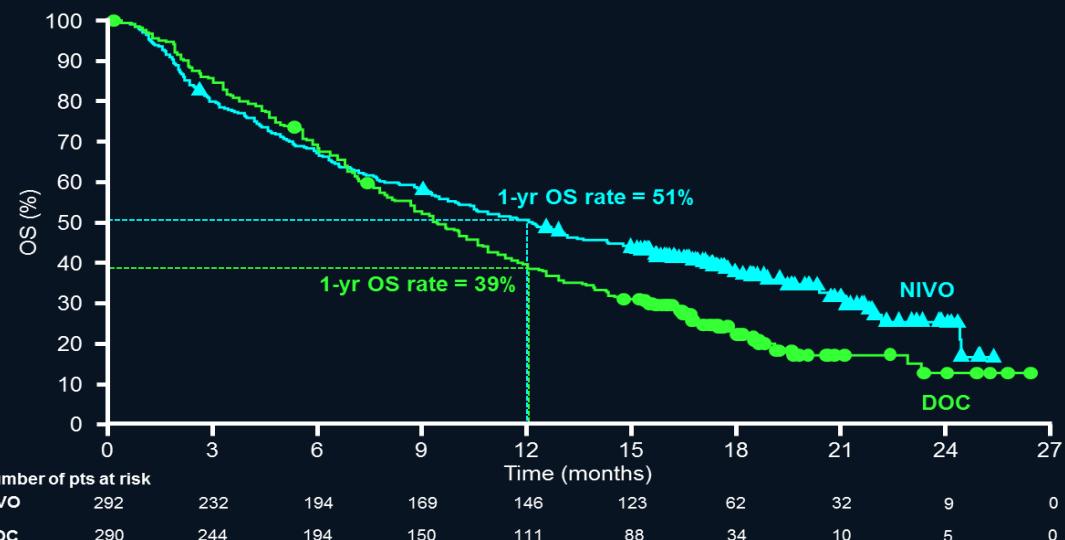
P = 0.00025



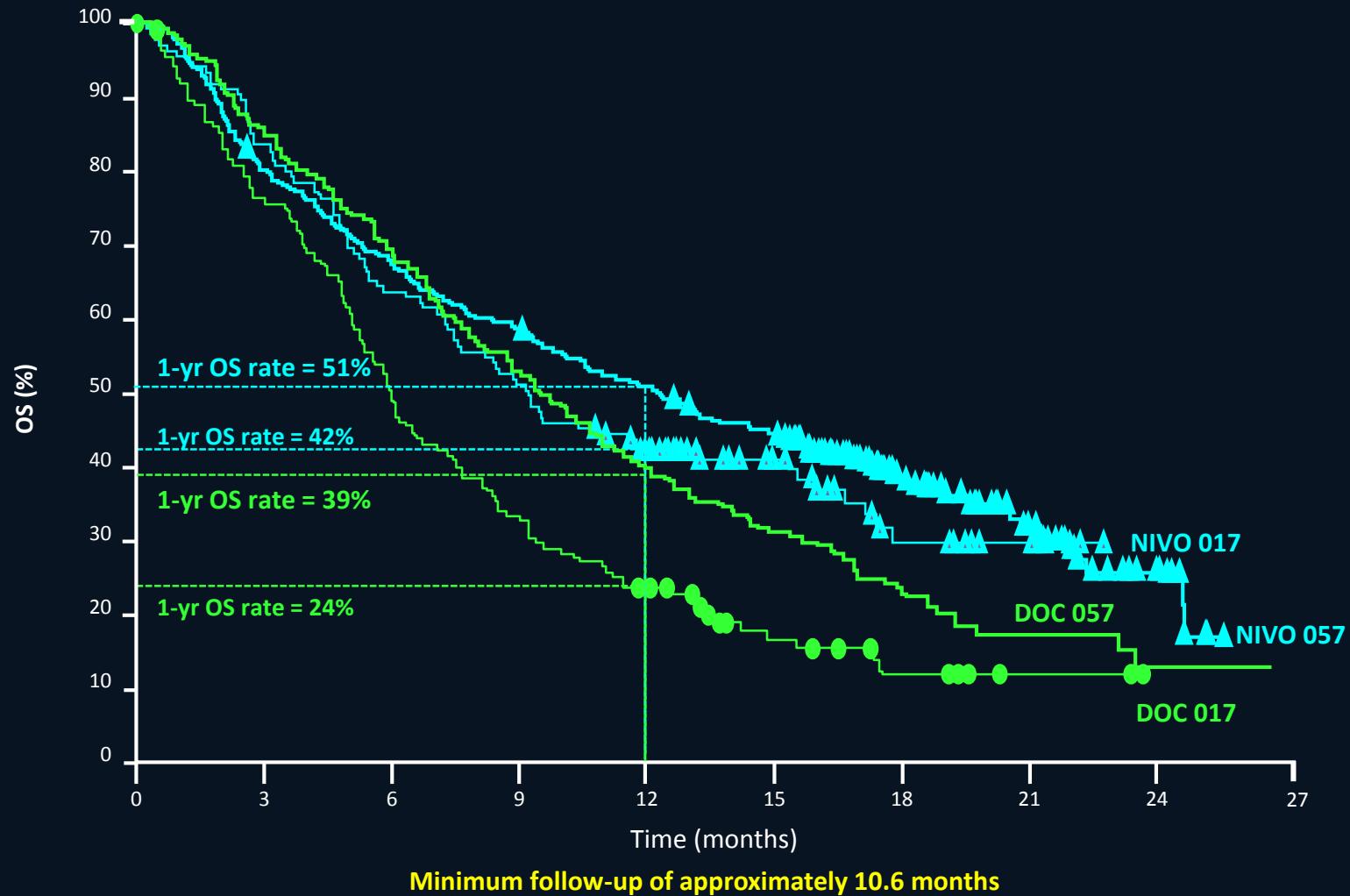
## CHECKMATE-057 Non-squamous

HR 0.73 (95% CI 0.59, 0.89)

P = 0.0015

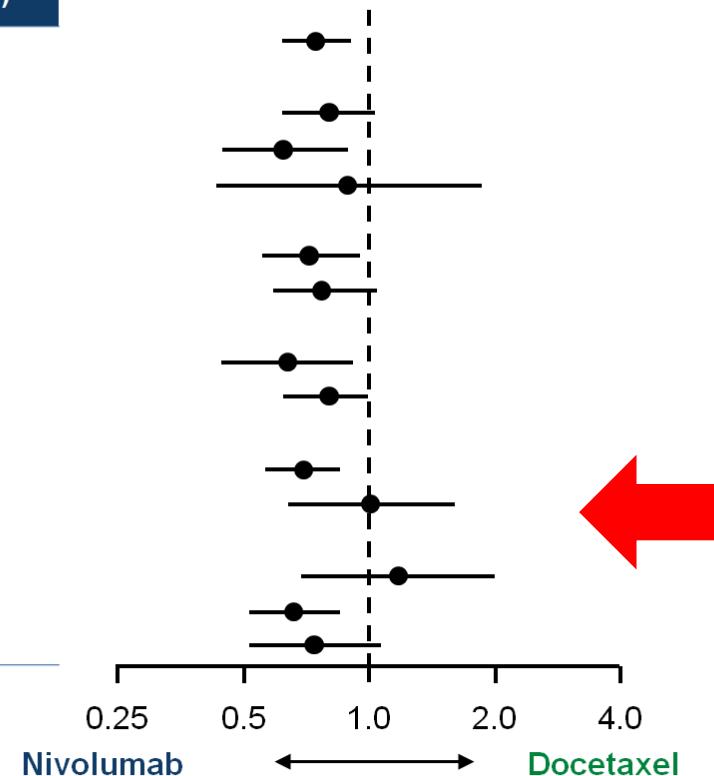


# Overall survival-ASCO discussion



# Treatment Effect on OS in Predefined Subgroups

	N	Unstratified HR (95% CI)
<b>Overall</b>	582	0.75 (0.62, 0.91)
<b>Age Categorization (years)</b>		
<65	339	0.81 (0.62, 1.04)
≥65 and <75	200	0.63 (0.45, 0.89)
≥75	43	0.90 (0.43, 1.87)
<b>Gender</b>		
Male	319	0.73 (0.56, 0.96)
Female	263	0.78 (0.58, 1.04)
<b>Baseline ECOG PS</b>		
0	179	0.64 (0.44, 0.93)
≥1	402	0.80 (0.63, 1.00)
<b>Smoking Status</b>		
Current/Former Smoker	458	0.70 (0.56, 0.86)
Never Smoked	118	1.02 (0.64, 1.61)
<b>EGFR Mutation Status</b>		
Positive	82	1.18 (0.69, 2.00)
Not Detected	340	0.66 (0.51, 0.86)
Not Reported	160	0.74 (0.51, 1.06)



All randomized patients (nivolumab, n = 292; docetaxel, n = 290).

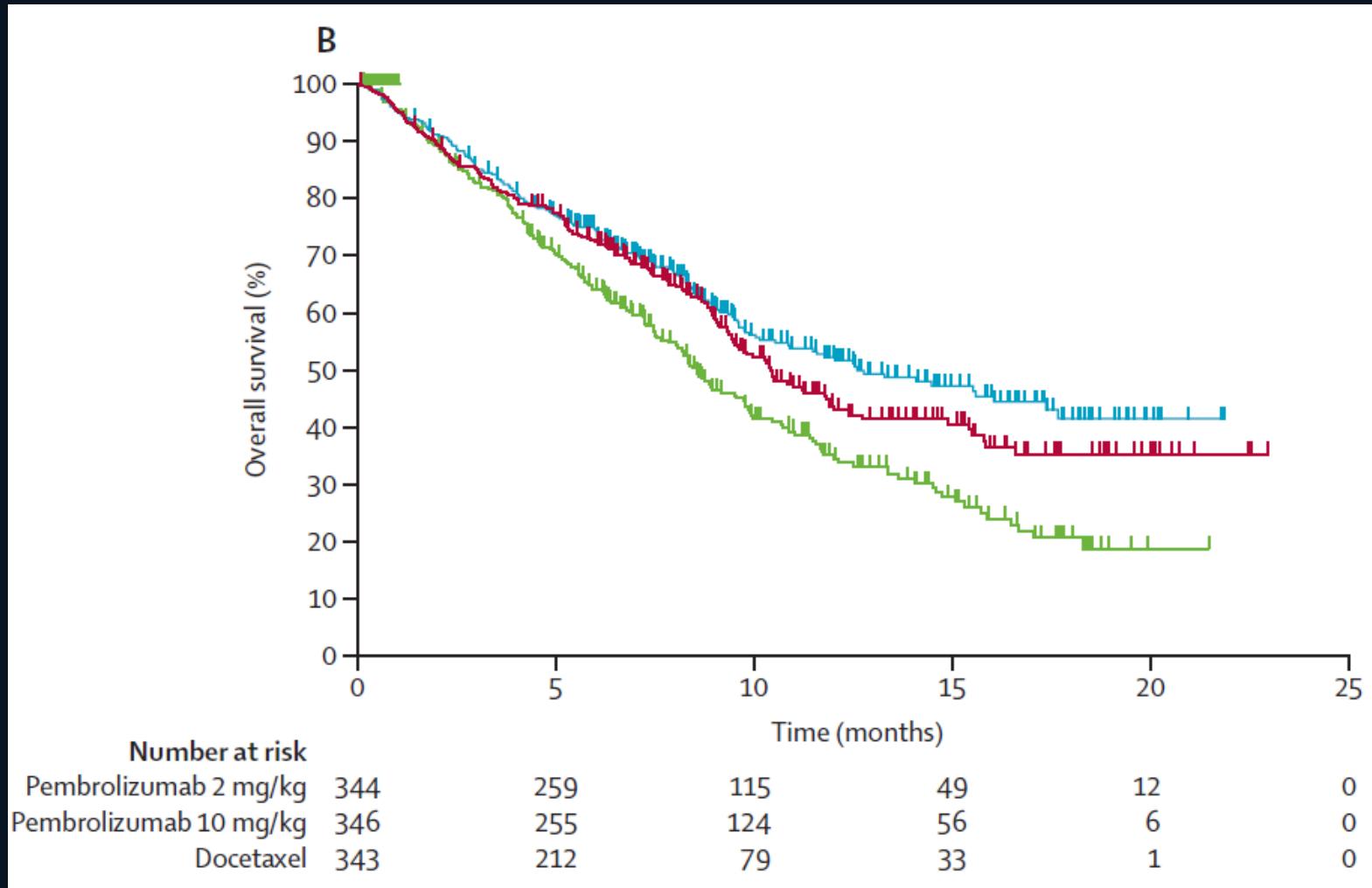
SLIDES ARE THE PROPERTY OF THE AUTHOR. PERMISSION REQUIRED FOR REUSE.

PRESENTED AT:

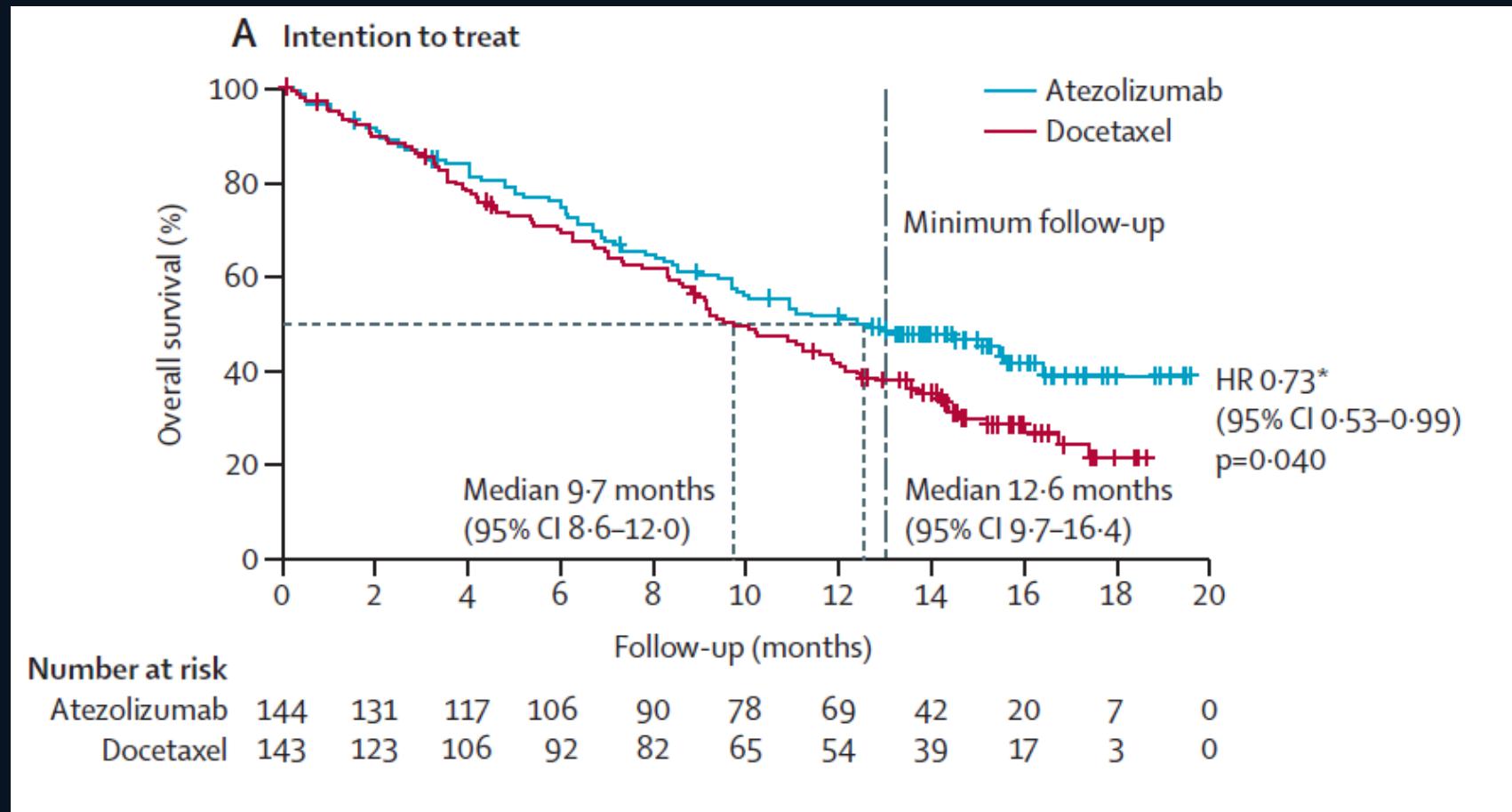
ASCO® Annual '15 Meeting



# KEYNOTE – 010 (pembro PS $\geq$ 1%)



# POPLAR: all patient efficacy



# **PD-L1 as a predictive biomarker ?**



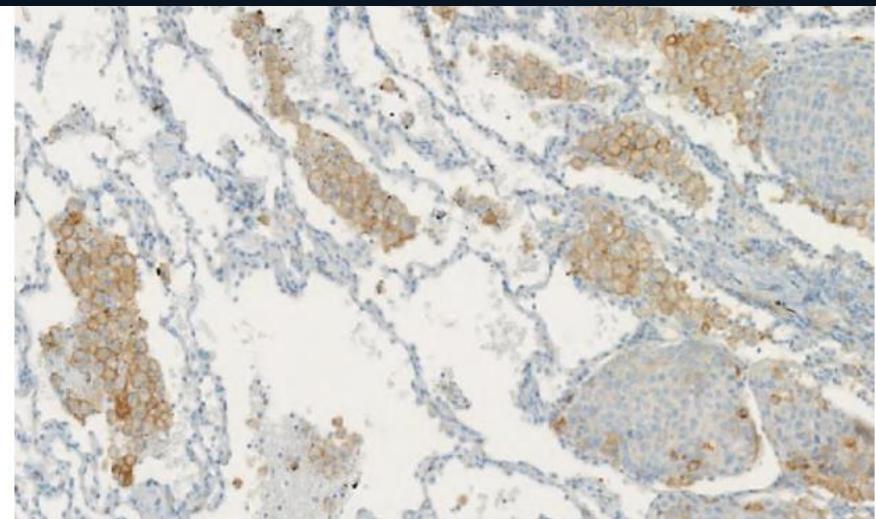
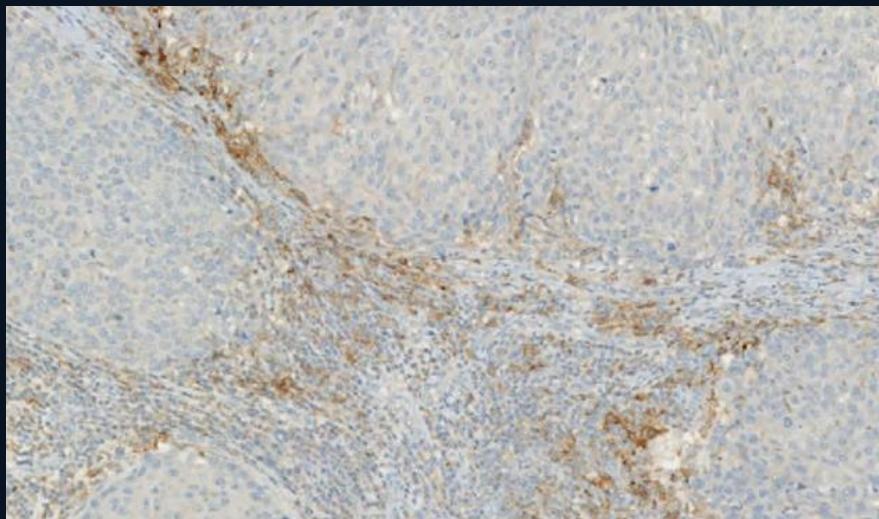
- **Discordance**

6% in multisampled  
cases

30% primary vs  
metastatic sites

- **Expression**

on tumour and immune cells



# PD-L1 expression (IHC) as a predictive biomarker

TABLE 1. Summary of Published Findings for PD-L1 Immunohistochemistry in Therapeutic Trials

Drug	Biomarker Antibody	Rx Line	Definition of "Positive" <sup>a</sup> (%)	N Positive (%)	Positive Predictive Outcome	ORR % IHC pos. Cases	ORR % IHC neg. Cases	Ref.
Nivolumab	Dako 28-8	1st	≥5 in >100 cells	59	Yes	31 <sup>b</sup>	10	7,8 <sup>f</sup>
Nivolumab	Dako 28-8	≥2nd	≥5, ≥1	49, 56	No	15, 13	14, 17	9,10
Nivolumab + Ipilimumab	Dako 28-8	1st	≥5 in >100 cells	42	No	19	14	11
Nivolumab	Dako 28-8	≥2nd	≥5	33 <sup>c</sup>	Yes	24	14	12 <sup>f</sup>
Nivolumab	5H1 <sup>d</sup>	≥2nd	≥5, also studied TIIICs	67	Yes	No data for lung	No data for lung	13
Pembrolizumab	Dako 22C3	Any	"Strong" ≥50, "Weak" 1–49	25, 70	Yes, Yes	37, 17	9	14
Pembrolizumab	Dako 22C3	1st	≥50, ≥1	?	Yes	47, 26	?	15
MPDL3280A	Roche Ventana, SP142	≥2nd	≥10, <sup>e</sup> ≥5, ≥1 TIIICs	13, 28, 56	Yes	83, 46, 31	18, 18, 20	16–18
MEDI-4736	Roche Ventana, SP263	≥2nd	Data not available	41	Yes	25	3	19,20

<sup>a</sup>Expression in tumor cells unless otherwise stated.

<sup>b</sup>The 31% figure is for all tumors. The ORR was 37% in nonsquamous tumors and 12% in squamous cases. In PDL-1 negative cases, ORR was 14% in nonsquamous tumors and 0% in squamous tumors.

<sup>c</sup>This study concerned squamous cell carcinomas only.

<sup>d</sup>These authors also used the anti-PD-1 monoclonal M3 in their immunohistochemical analysis.

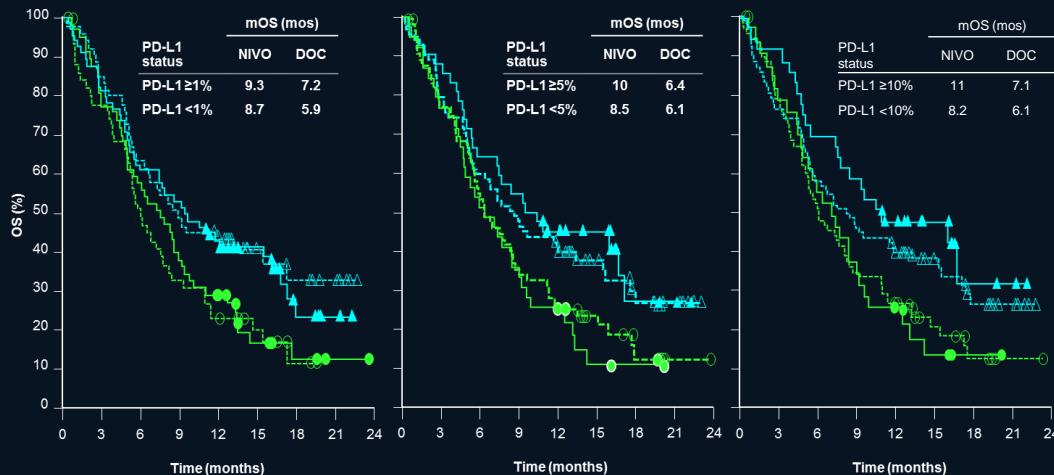
<sup>e</sup>IHC score 3, ≥10% TIIICs positive; IHC score 2–3, ≥5% TIIICs positive; IHC score 1–2–3, ≥1% TIIICs positive.

<sup>f</sup>ORR quoted are those actually presented, as opposed to those published in the abstract

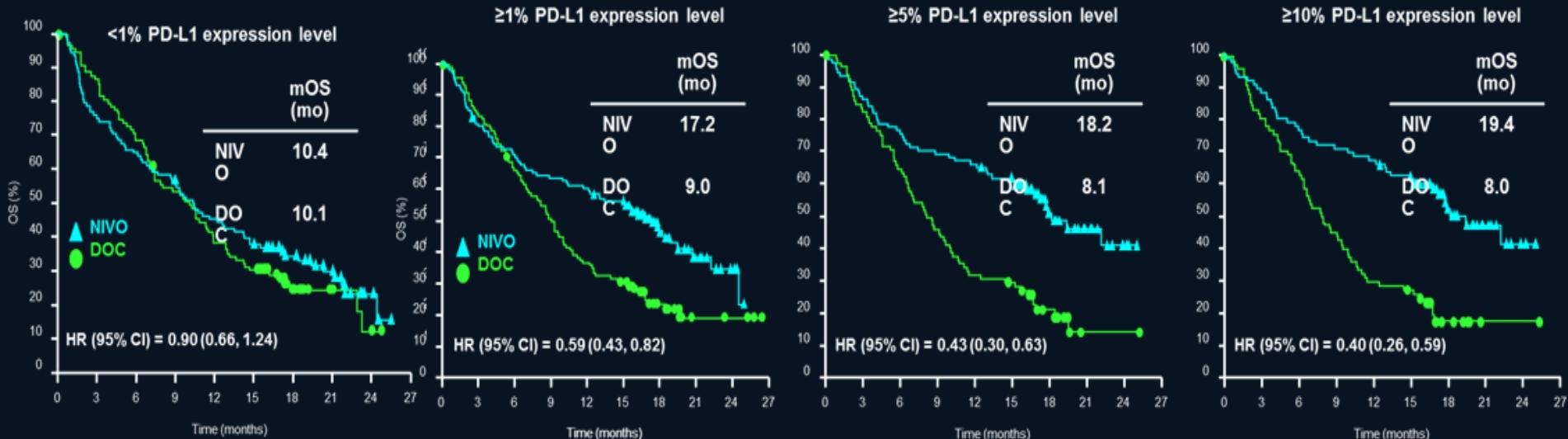
IHC, immunohistochemistry; TIIICs, tumor infiltrating immune cells; ORR, overall response rate (response evaluation criteria in solid tumors).



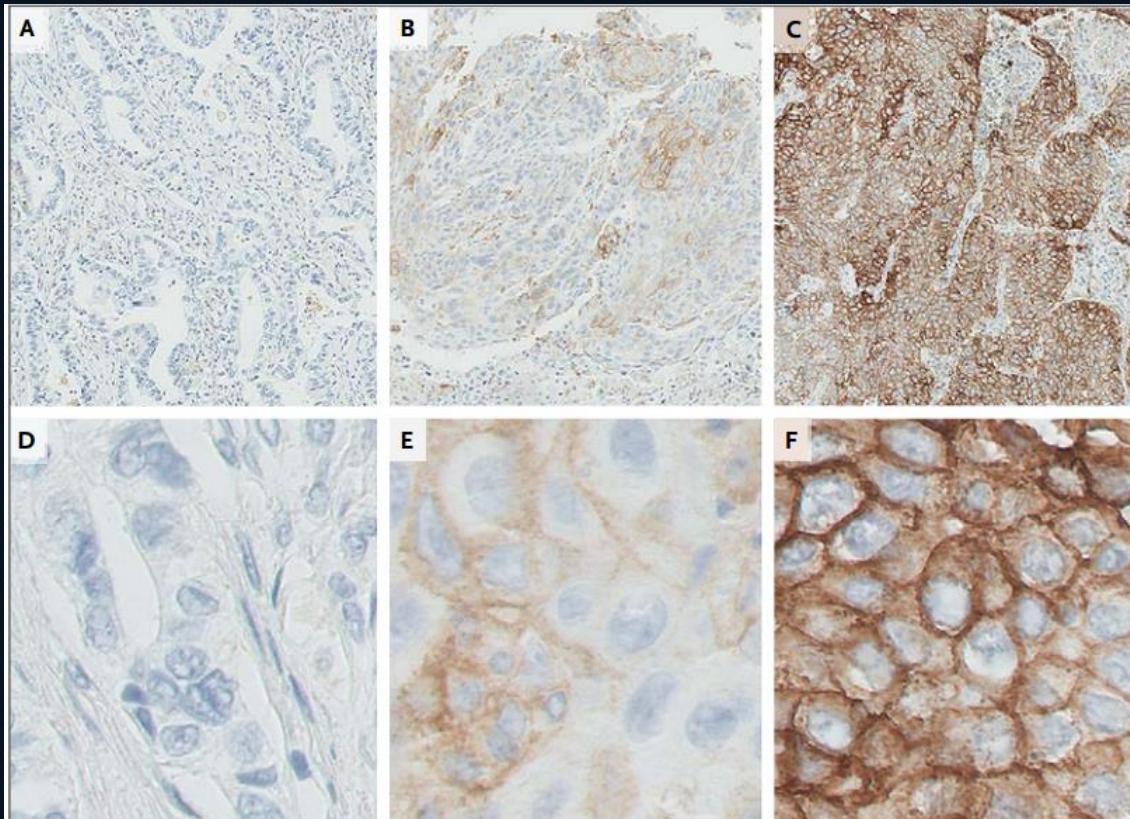
# PD-L1 NOT predictive for OS in squamous!



# PD-L1 predictive for OS in NON-squamous?



# Proportion score and pembrolizumab

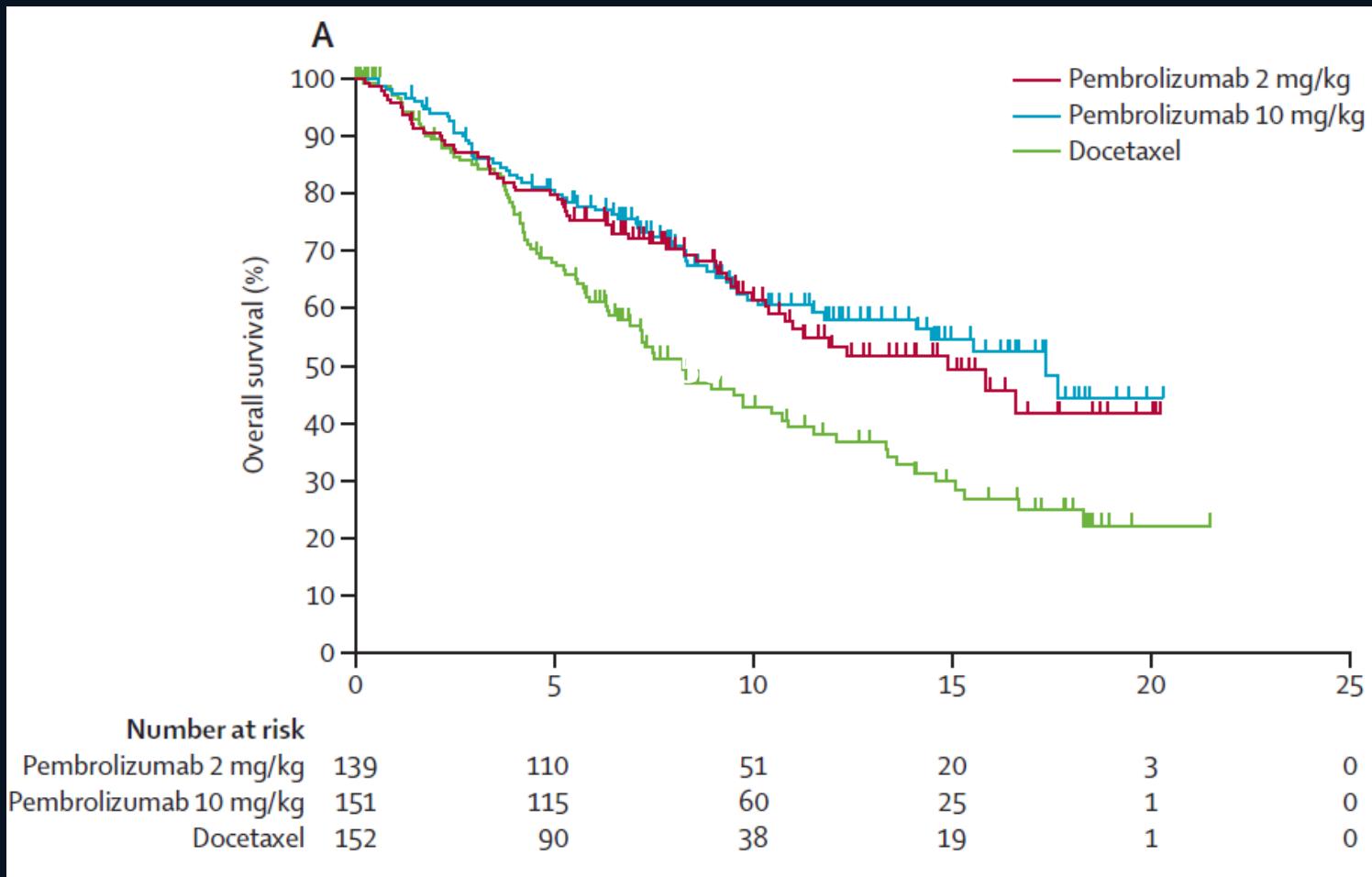


**Figure 1. PD-L1 Expression in Non-Small-Cell Lung Cancers.**

Results were reported as the percentage of neoplastic cells showing membranous staining of programmed cell death ligand 1 (PD-L1) (proportion score). Shown are tumor samples obtained from patients with a proportion score of less than 1% (Panel A), a score of 1 to 49% (Panel B), and a score of at least 50% (Panel C) (all at low magnification). Tumor samples with the corresponding proportion scores are shown at a higher magnification in Panels D through F. PD-L1 staining is shown by the presence of the brown chromogen. The blue color is the hematoxylin counterstain.

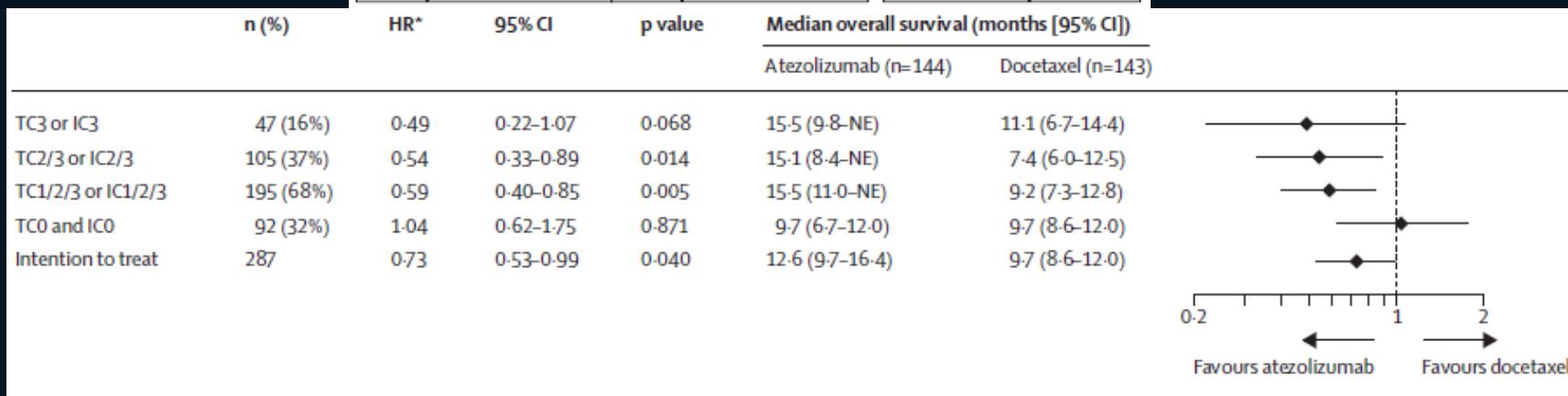
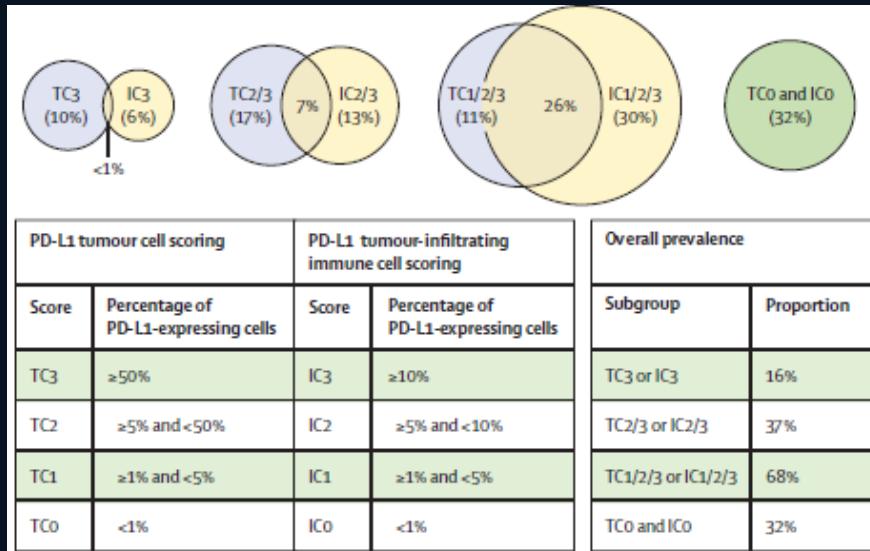
# KEYNOTE - 010

## Survival benefit by PD-L1 expression (PS $\geq$ 50%)

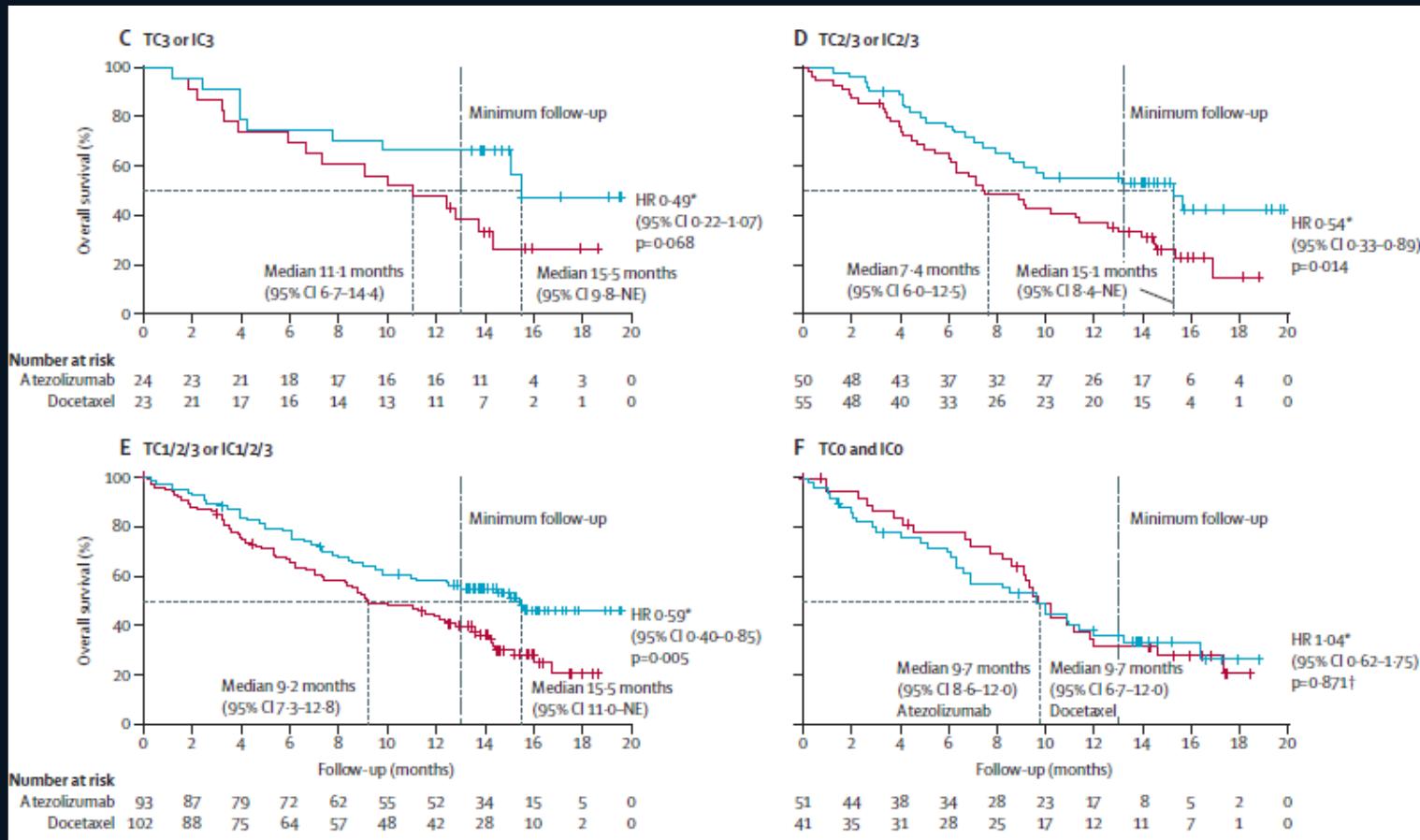


# POPLAR: OS in programmed death ligand 1 subgroups

## subgroups



# POPLAR: OS in programmed death ligand 1 subgroups





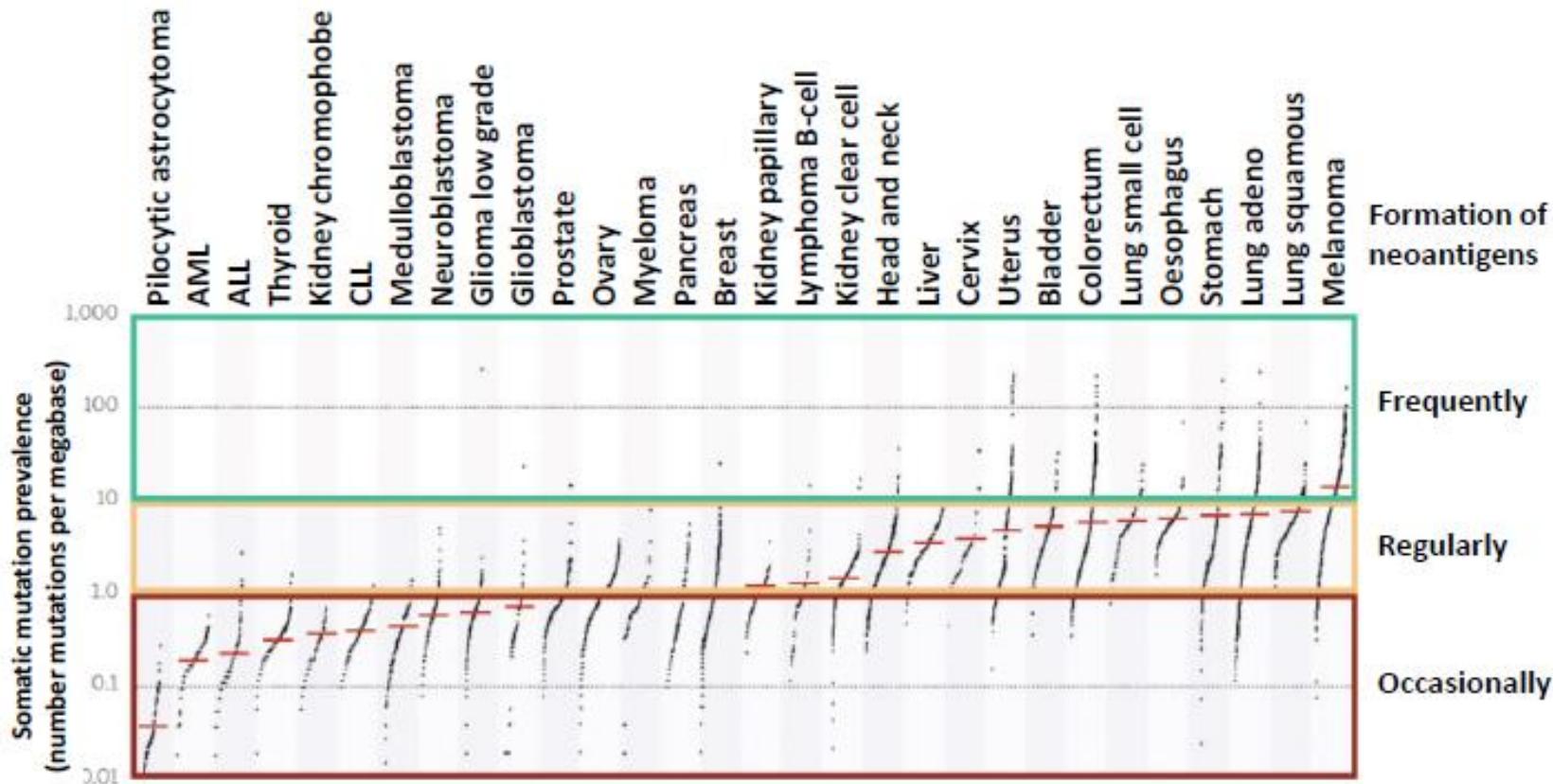
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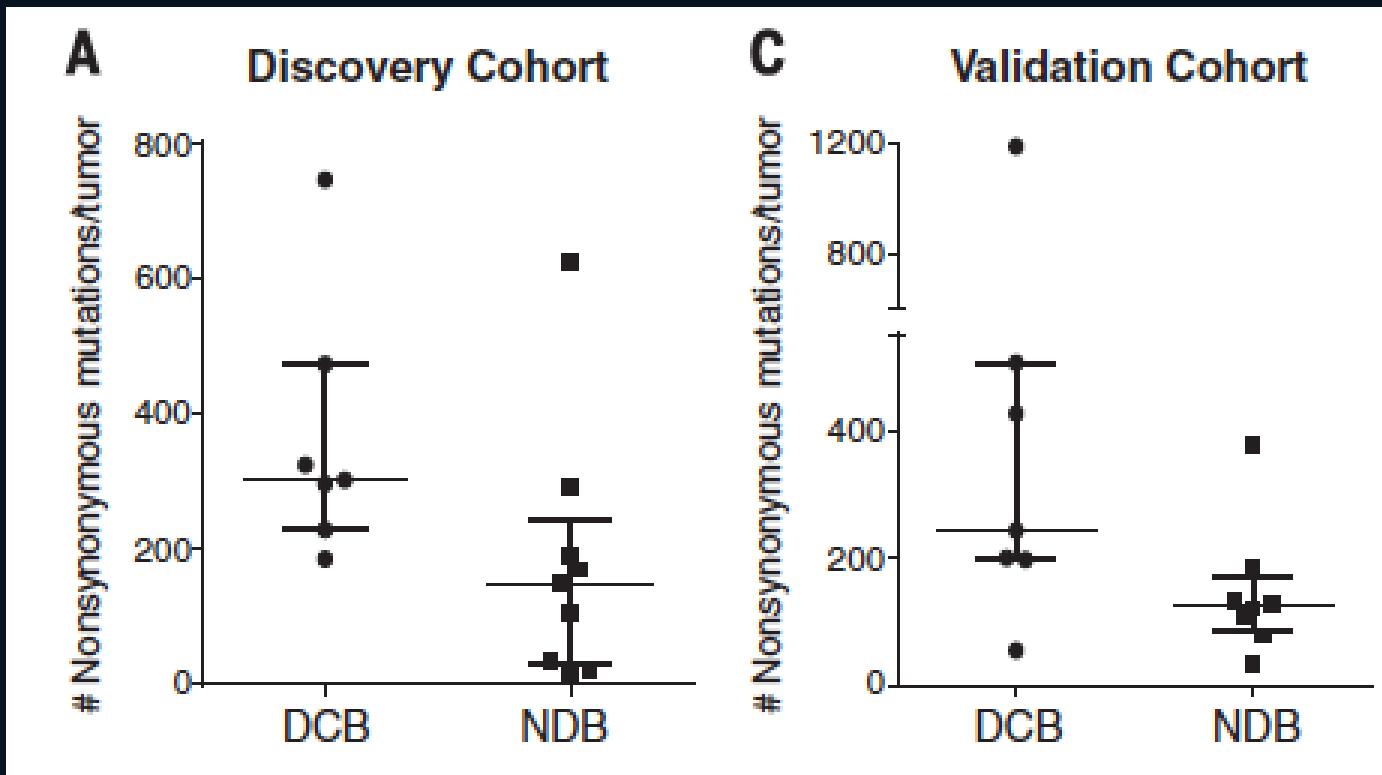
# **Esistono altre ipotesi di selezione?**



# Neoantigens



# Mutation burden associated with clinical benefit to anti-PD1 therapies



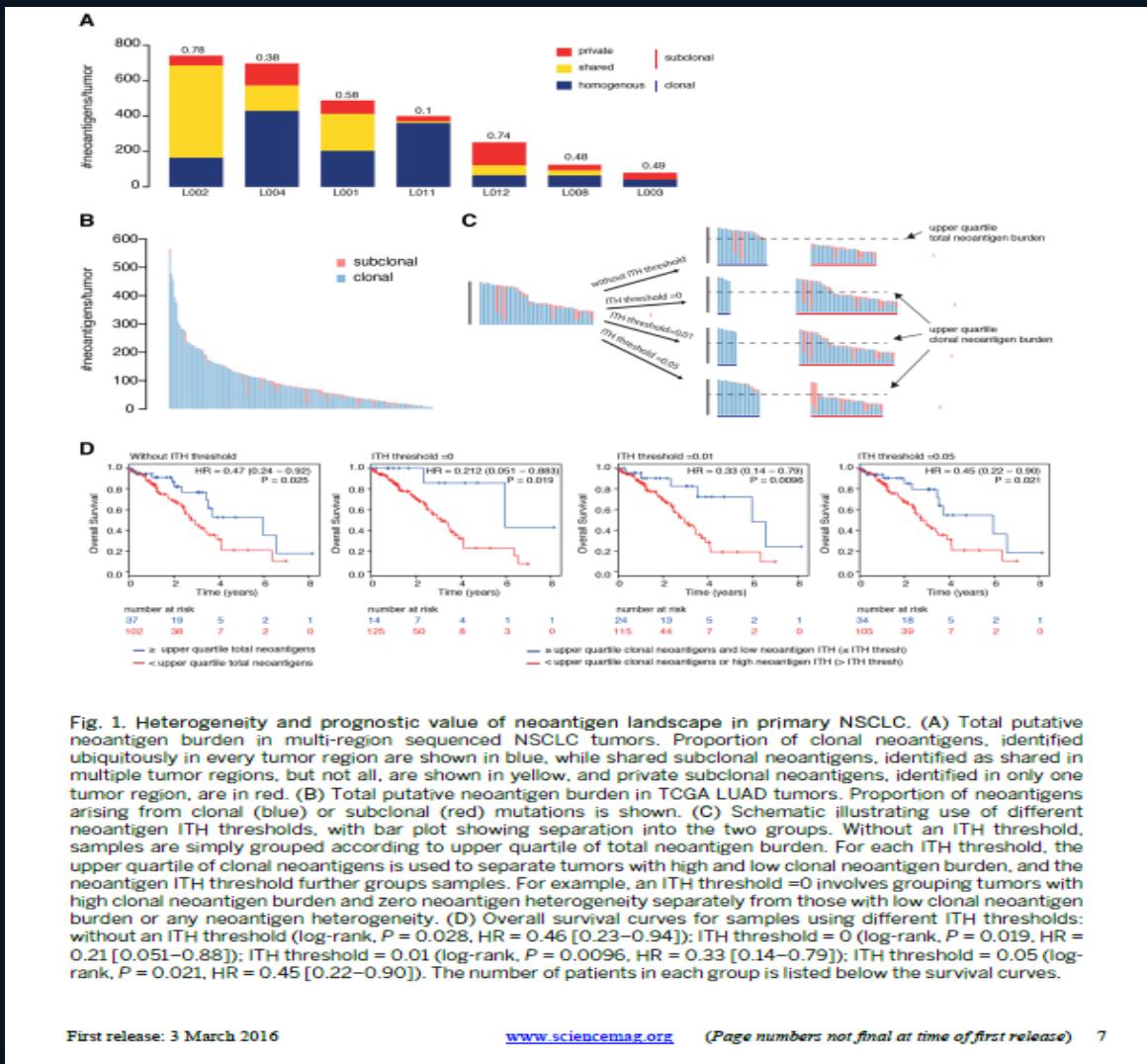
DCB: Durable clinical benefit: partial or stable disease >6 months

NDB: Non durable benefit

Rizvi NA et al, Science 2015



# Ci vuole MB, ma bassa eterogeneità!



# Le tossicità



# Toxicity: pre-treated advanced NSCLC

Treatment related AEs (%)	Nivolumab squamous	Nivolumab non-squamous	Atezolizumab all comers
Any AE	58	69	67
Grade ≥3	7	10	11
Grade 5 (death)	0	0	0*
Any AE leading to discontinuation	3	5	8

\* Grade 5 4%



# Immune Related Adverse Events (IRAEs)

System	Adverse Events
Gastrointestinal	Colitis (Diarrhea, perforation)
Renal	Acute Interstitial Nephritis (Increased serum Creatinine)
Pulmonary	Pneumonitis (dyspnea, cough)
Dermatologic	Dermatitis (Lichenoid/ spongiotic dermatitis, rash), Vitiligo
Hepatic	Hepatitis (elevated LFTs)
Neurologic	Central and Peripheral (Aseptic Meningitis, Guillan-Barre Syndrome, Myasthenia Gravis)
Endocrine	Hypophysitis, thyroiditis, adrenal insufficiency
Ocular	Uveitis, Iritis



# Immune Related Adverse Events (IRAEs)

- Average time to onset of irAEs is 6-12 weeks after initiation of therapy
  - Within days of the first dose
  - After several months of treatment
  - After discontinuation of therapy
- Severity: can be mild and asymptomatic to severe and life threatening



## Toxicities of the anti-PD-1 and anti-PD-L1 immune checkpoint antibodies

J. Naidoo<sup>1\*</sup>, D. B. Page<sup>2</sup>, B. T. Li<sup>3</sup>, L. C. Connell<sup>3</sup>, K. Schindler<sup>4</sup>, M. E. Lacouture<sup>5,6</sup>,  
M. A. Postow<sup>3,6</sup> & J. D. Wolchok<sup>3,6</sup>

### ANTI PDL-1 AGENTS

Agent	First author (year)	Phase	Tumor type	No. of patients receiving anti-PD-1/PD-L1 agent (N)	Therapy schedule	Treatment-related toxicities (grade 1–5)	Treatment-related grade 3–4 toxicities
Durvalumab (MEDI4736)							

Segal	I	Multiple solid tumors <sup>a</sup>	346	10 mg/kg every 2 weeks × 1 year	Total = 39% (n = 135) Fatigue (13%, n = 45) Rash (9%, n = 30) Pneumonitis (1%, n = 5) AST/ALT elevation (4%, n = 13) Hypothyroidism (2%, n = 8)	Total = 6% (n = 20) Fatigue (1%, n = 2) Rash (<1%, n = 1) AST/ALT elevation (1%, n = 3) Hypothyroidism (<1%, n = 1)
Rizvi (2015)	I	NSCLC	228	10 mg/kg every 2 weeks × 1 year	Total = 93% (n = 213) Fatigue = 18% Low appetite = 9% Nausea = 8% Hyperthyroidism (4%, n = 9) Diarrhea (7%, n = 15) Rash (8%, n = 17) Pneumonitis (1%, n = 3)	Total = 53% (n = 121) Diarrhea (<1%, n = 1) Rash (0%, n = 0) Hyperthyroidism (<1%, n = 1)

### Atezolizumab (MPDL3280A)

Herbst (2014)	I	Multiple solid tumors + hematologic malignancies	277	0.01–20 mg/kg every 3 weeks	Total = 70% (n = 194) Fatigue (24%, n = 67) Low appetite (12%, n = 33) Rash (11%, n = 29) Influenza-like illness (6%, n = 16) AST/ALT elevation (4%, n = 10) Tumor lysis syndrome (<1%, n = 2)	Total = 13% (n = 35) Fatigue (2%, n = 5) Low appetite (0%, n = 0) Rash (0%, n = 0) Influenza-like illness (<1%, n = 1) AST/ALT elevation (2%, n = 6) Tumor lysis syndrome (<1%, n = 2)
Powles (2014)	I	Urothelial carcinoma	68	15 mg/kg every 3 weeks × 1 year	Total = 57% (n = 39) Low appetite (12%, n = 8) Fatigue (12%, n = 8) Pyrexia (12%, n = 8) Influenza-like illness (4%, n = 3) Thrombocytopenia (3%, n = 2)	Total = 4% (n = 3) Asthenia (1.5%, n = 1) Thrombocytopenia (1.5%, n = 1) Phosphorus elevation (1.5%, n = 1)



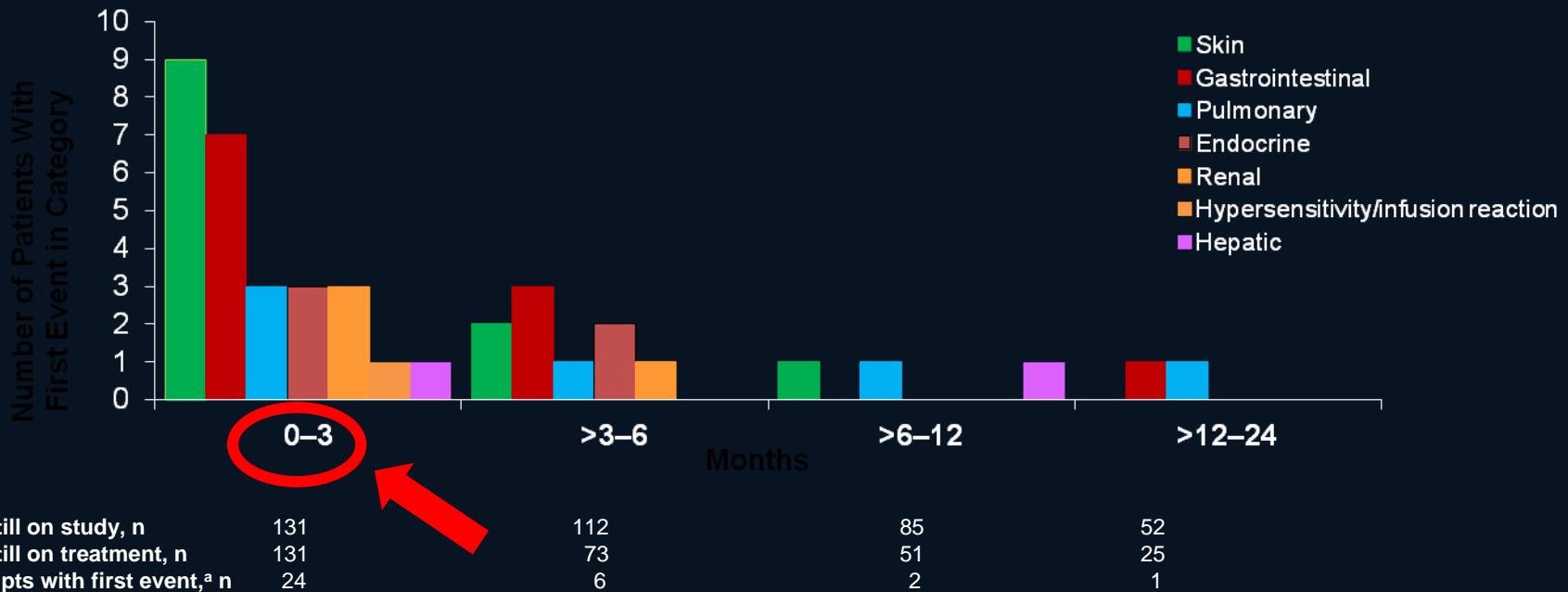
## ANTI PD-1 AGENTS

Agent	First author (year)	Phase	Tumor type	No. of patients receiving anti-PD-1/PD-L1 agent (N)	Therapy schedule	Treatment-related toxicities (grade 1–5)	Treatment-related grade 3–4 toxicities
<b>Nivolumab</b>							
Weber (2015)	III	Ipilimumab-refractory melanoma	272		3 mg/kg every 2 weeks versus chemotherapy	Total = 67% (n = 181) Fatigue (25%, n = 67) Pruritus (16%, n = 43) Diarrhea (11%, n = 30) Nausea (9%, n = 25)	Total = 9% (n = 24) Lipase elevation (1%, n = 3) ALT elevation (1%, n = 2) Anemia (1%, n = 2) Fatigue (1%, n = 2)
Brahmer	III	NSCLC (squamous)	131		3 mg/kg every 2 weeks versus docetaxel	Total = 58% (n = 76) Fatigue (16%, n = 21) Low appetite (14%, n = 11) Asthenia (10%, n = 13) Diarrhea (8% n = 10) Pneumonitis (5%, n = 6) Hypothyroidism (4%, n = 5)	Total = 7% (n = 9) Fatigue (<1%, n = 1) Low appetite (<1%, n = 1) Leucopenia (<1%, n = 1) Pneumonitis (<1%, n = 1) Colitis (<1%, n = 1) Interstitial nephritis (<1%, n = 1)
<b>Pembrolizumab</b>							
Ribas (2015)	II	Melanoma	357		2 or 10 mg/kg every 3 weeks versus standard chemotherapy	Total = 71% (n = 252) Fatigue (26%, n = 92) Pruritus (22%, n = 79) Rash (8%, n = 29) Hypothyroidism (6% n = 22) Pneumonitis (1%, n = 3)	Total = 13% (n = 45) Fatigue (<1%, n = 2) Myalgia (<1%, n = 2) Edema (<1%, n = 2) Colitis (<1%, n = 2) Hypophysitis (<1%, n = 2) Pneumonitis (<1%, n = 2)
Robert (2015)	III	Untreated melanoma	556		10 mg/kg every 2 or 3 weeks versus ipilimumab	Total = 76% (n = 423) Fatigue (20%, n = 111) Pruritus (14%, n = 79) Rash (14%, n = 77) Hypothyroidism (9%, n = 52) Hyperthyroidism (5%, n = 27) Colitis (3%, n = 15) Hepatitis (1%, n = 8) Pneumonitis (1%, n = 6) Uveitis (<0.1%, n = 4)	Total = 12% (n = 65) Colitis (2%, n = 11) Diarrhea (n = 10) Hepatitis (n = 8) Hypophysitis (n = 2) Pneumonitis (n = 1) Type 1 diabetes (n = 1)



# CheckMate 017: Updated Safety

## Time to Onset of First Treatment-related Select AE With Nivolumab by Category (Any Grade)



- The majority of patients who experienced treatment-related select AEs with nivolumab experienced their first event within the first 3 months of treatment

# Immunoterapia in combinazione

Agent	Author(s)	Phase	Tumor type	Total patients (N)	Treatment schedule	Treatment-related toxicities (grade 1–5)	Grade 3–4 treatment-related toxicities
Pembrolizumab + ipilimumab	Patnaik et al. [37]	I	NSCLC	18	P (2 or 10 mg/kg every 3 weeks) + I (1 or 3 mg/kg every 3 weeks × 4) + maintenance P	Total = 83% (n = 15) Fatigue (33%, n = 4) Low appetite (17%, n = 2) Pruritus (17%, n = 2) Rash (17%, n = 2) Myasthenia gravis (6%, n = 1) Myocarditis (6%, n = 1) Pneumonitis (6%, n = 1) Uveitis (6%, n = 1)	Total = 17% (n = 3) Rash (17%, n = 2) Adrenal insufficiency (6%, n = 1)
MEDI4736 + tremelimumab	Antonia et al. [38]	Ib	NSCLC	102	M (3–20 mg/kg every 4 weeks or 10 mg/kg every 2 weeks) + T (1–3 mg/kg every 2 or 4 weeks × 6 doses) for 1 year	Total = 93% (n = 95) Diarrhea (27%, n = 28) Fatigue (26%, n = 27) Colitis (12%, n = 12) ALT elevation (10%, n = 10) AST elevation (6%, n = 6) Hypothyroidism (6%, n = 6) Pneumonitis (5%, n = 5)	Total = 61% (n = 60) Diarrhea (8%, n = 8) Colitis = (9%, n = 9) ALT elevation (3%, n = 3) AST elevation (4%, n = 4) Myasthenia gravis (n = 1) Polymyositis (n = 1) Pneumonitis (4%, n = 4) Hypothyroidism (1%, n = 1)
Chemotherapy							
Nivolumab + platinum-doublet chemotherapy	Antonia et al. [39]	I	NSCLC	56	N (10 mg/kg every 3 weeks or 5 mg/kg every 3 weeks) + chemotherapy × 4 + N alone (10 mg/kg every 3 weeks or 5 mg/kg every 3 weeks)	Total = 93% (n = 52) Fatigue (71%, n = 40) Nausea (46%, n = 26) Low appetite (36%, n = 20) Alopecia (30%, n = 17) Pneumonitis (13%, n = 7)	Total = 45% (n = 25) Fatigue (5%, n = 3) Anemia (4%, n = 2) Rash (4%, n = 2) Acute renal failure (5%, n = 3) Pneumonitis (7%, n = 4)
Targeted therapy							
Durvalumab + AZD9291	Oxnard et al. [40]	Ib	EGFR-mutant T790M-positive NSCLC	14	M (3 or 10 mg/kg every 2 weeks) + A (80 mg daily)	Total: not reported <sup>b</sup> Diarrhea (50%, n = 7) Vomiting (50%, n = 7) Anemia (45%, n = 6) Pneumonitis (21%, n = 3)	Total: 1% (n = 2) <sup>b</sup> Neutropenia = 2
Durvalumab + gefitinib	Creelan et al. [41]	Ib	NSCLC	10	M (3 or 10 mg/kg every 4 weeks) + G (250 mg daily) × 1 year	Total = 100% (n = 10) ALT elevation (50%, n = 5) AST elevation (50%, n = 5) Diarrhea (50%, n = 5)	Total = 30% (n = 3) Dyspnea (1%, n = 1) Fatigue (1%, n = 1) ALT elevation (1%, n = 1)





## Review

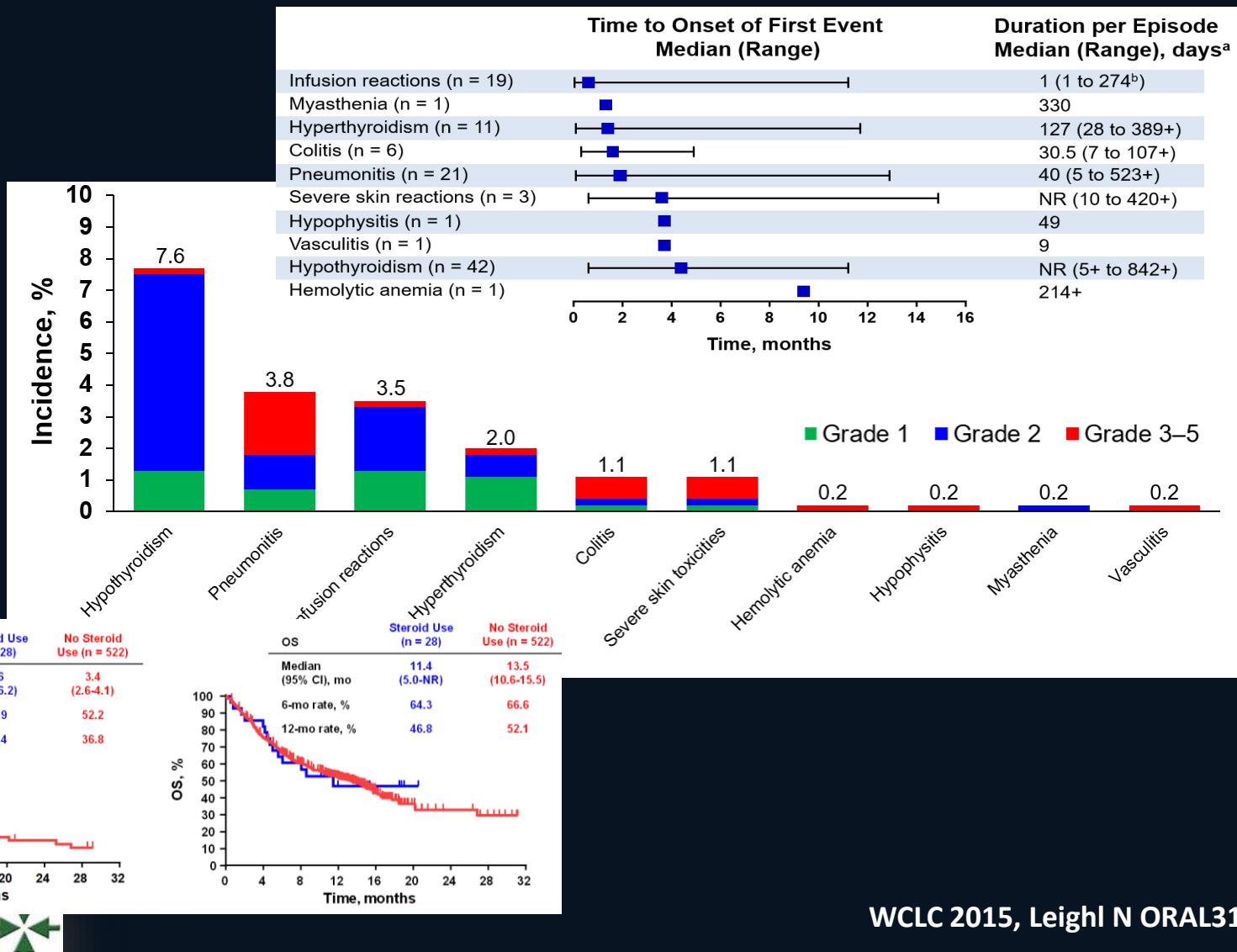
**Optimal management of immune-related toxicities associated with checkpoint inhibitors in lung cancer**Matthew Howell<sup>a</sup>, Rebecca Lee<sup>a,b</sup>, Samantha Bowyer<sup>a</sup>, Alberto Fusi<sup>a</sup>, Paul Lorigan<sup>a,b,\*</sup><sup>a</sup> The Christie NHS Foundation Trust, Wilmslow Road, Manchester M21 4BX, United Kingdom<sup>b</sup> The University of Manchester, Oxford Road, Manchester M13 9PL, United Kingdom**General management algorithm for immune related toxicity.**

CTCAE grade	Management
1	<ul style="list-style-type: none"><li>• Supportive treatment</li><li>• <u>Increased monitoring of symptoms</u></li><li>• Exclude infection</li><li>• <u>Patient education</u></li></ul>
2	<p>As per grade 1 but in addition:</p> <ul style="list-style-type: none"><li>• Withhold immunotherapy until toxicity has resolved to grade 1 or less</li><li>• <u>Consider oral steroids if persistent symptoms &gt;5 days</u></li></ul>
3	<ul style="list-style-type: none"><li>• Supportive therapy</li><li>• Commence intravenous steroids (typical dose 1–2 mg/kg methylprednisolone)</li><li>• If not resolving within 48 h consider addition of other immunosuppressants (e.g. infliximab, mycophenolate)</li><li>• Consider system specific investigations (e.g. colonoscopy)</li><li>• Seek expert opinion of relevant specialist</li><li>• Investigate and treat infection</li><li>• Withhold immunotherapy, consider restarting if toxicity grade 1 or less on individual basis</li><li>• Steroids will need to be tapered over 3–6 weeks</li></ul>
4	<ul style="list-style-type: none"><li>• As for grade 3 but permanently discontinue immunotherapy</li></ul>



# Pembro: Immune-Related Events & Steroids

KEYNOTE-001, Data from 505 pts



# CHECKMATE 057

NIVO vs DOC non squamous 2<sup>nd</sup> line

Would it be better than the BEST CURRENT RESULT in ADENO?  
i.e. DOC + Antiangiogenics

## INDIRECT COMPARISON

	DOC + ANTI ANGIOGENIC	NIVO	TEST FOR INTERACTION
HR-OS	REVEL	LUME-LUNG1	CM-057
HR-OS	0.83	0.83	0.73
CI95%	0.71-0.97	0.70-0.99	0.59-0.89
P	0.020	0.0359	0.00155

# Toxicity: pre-treated advanced NSCLC

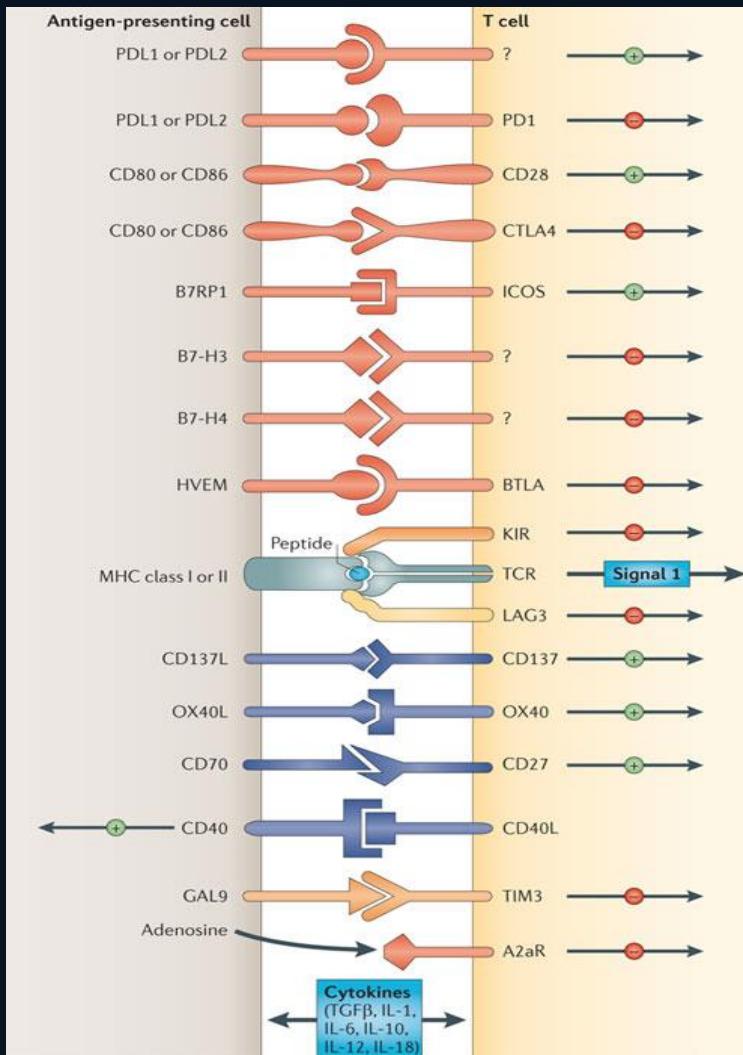
Treatment related AEs (%)	Nivolumab squamous	Nivolumab non-squamous	Atezolizumab all comers	Ramucirumab + docetaxel*	Nintedanib + docetaxel
Any AE	58	69	67	98	94
Grade ≥3	7	10	11	79	71
Grade 5 (death)	0	0	0	5	5
Any AE leading to discontinuation	3	5	8	-	23



# PD-1/PD-L1 inhibitors in Phase III clinical development for first-line advanced NSCLC

IMT	Target	PD-L1 selection criteria	Monotherapy/ combination	Comparator	Trials
<b>Nivolumab</b>	PD-1	PD-L1 unselected	Monotherapy or +ipilimumab	Platinum-doublet chemotherapy	Checkmate-227
		PD-L1+	Monotherapy	Chemotherapy (investigator choice)	Checkmate-026
<b>Pembrolizumab</b>	PD-1	PD-L1+	Monotherapy	Platinum-doublet chemotherapy	Keynote-042
		PD-L1 strong	Monotherapy	Platinum-doublet chemotherapy	Keynote-024
<b>Durvalumab</b>	PD-L1	PD-L1 unselected	Monotherapy or + tremelimumab	Platinum-doublet chemotherapy	MYSTIC
		PD-L1 unselected	+tremelimumab	Platinum-doublet chemotherapy	NEPTUNE
<b>Atezolizumab</b>	PD-L1	PD-L1 unselected	+ carboplatin/paclitaxel or + carboplatin/nab-paclitaxel	Carboplatin/nab-paclitaxel	IMpower 131
		PD-L1 unselected	+carboplatin/paclitaxel +/- bevacizumab	Carboplatin/paclitaxel /bevacizumab	IMpower 150
		PD-L1 unselected	+carboplatin/nab-paclitaxel	Carboplatin/nab-paclitaxel	IMpower130
		PD-L1+	Monotherapy	Carboplatin/pemetrexed or cisplatin/pemetrexed	IMpower110
		PD-L1+	Monotherapy	Carboplatin/gemcitabine or Cisplatin/gemcitabine	IMpower111

# Regulation of T cell responses via multiple co-stimulatory and inhibitory interactions



- T cells require 2 signals from dendritic cells to become fully activated:
  - 1) binding of the MHC-antigen to the T-cell receptor **and**
  - 2) binding of costimulatory molecules expressed on mature dendritic cells (e.g., B7) to CD28 on the T cell.
- CTLA4 and PD-1 receptors are up-regulated following T-cell activation and bind to CD80 or PDL1 or 2, sending an inhibitory signal that down-regulates T-cell activation.



# **Nuovi farmaci e possibili combinazioni**

**B7 family member combinations**

PD-1, CTLA-4

**Novel immunoglobulin superfamily targets**

TIM-3, LAG-3, VISTA

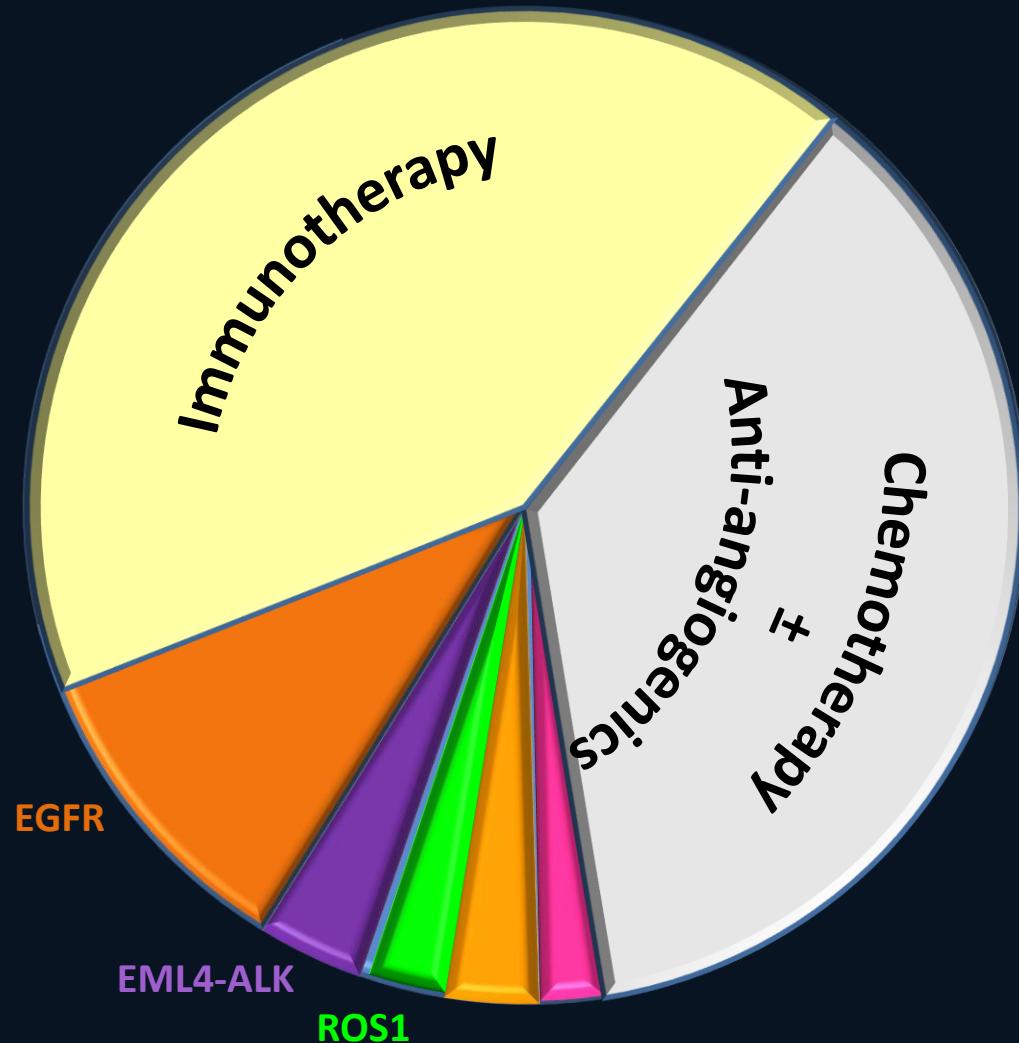
**TNFR superfamily**

OX40, GITR, CD137, CD27

**Soluble inhibitors**

IDO, arginase, adenosine





# Conclusioni

- L'immunoterapia è una NUOVA arma terapeutica nel trattamento delle neoplasie del polmone

## Biomarcatori

- L'istologia non è un criterio di selezione
- L' intensità di espressione di PD-L1 su tumore e su infiltrato è sicuramente un biomarcatore, ma non l' unico
- E' necessaria una armonizzazione della valutazione di PD-L1

## Futuro

- Combinazioni (con chemio, TT, altre immunoterapie,etc)
- Definire **criteri di selezione e durata** dei trattamenti e



Grazie per la Vostra Attenzione !!!

