



# LUNG CANCER **UPDATES**

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## ESMO HIGHLIGHTS

27 SEPTIEMBRE - 1 OCTUBRE 2019



Con la colaboración de:



# LUNG CANCER UPDATES

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27 SEPTIEMBRE - 1 OCTUBRE 2019

Iniciativa científica de:



BARCELONA

## Inmunoterapia (II)

Dr. Óscar Juan-Vidal

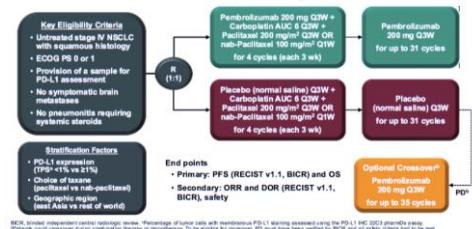
Con la colaboración de:



# Inmunoterapia en 1L: ¿Es el lugar apropiado?

Immunotherapy plus chemotherapy in squamous NSCLC:

KEYNOTE 407 phase III trial design

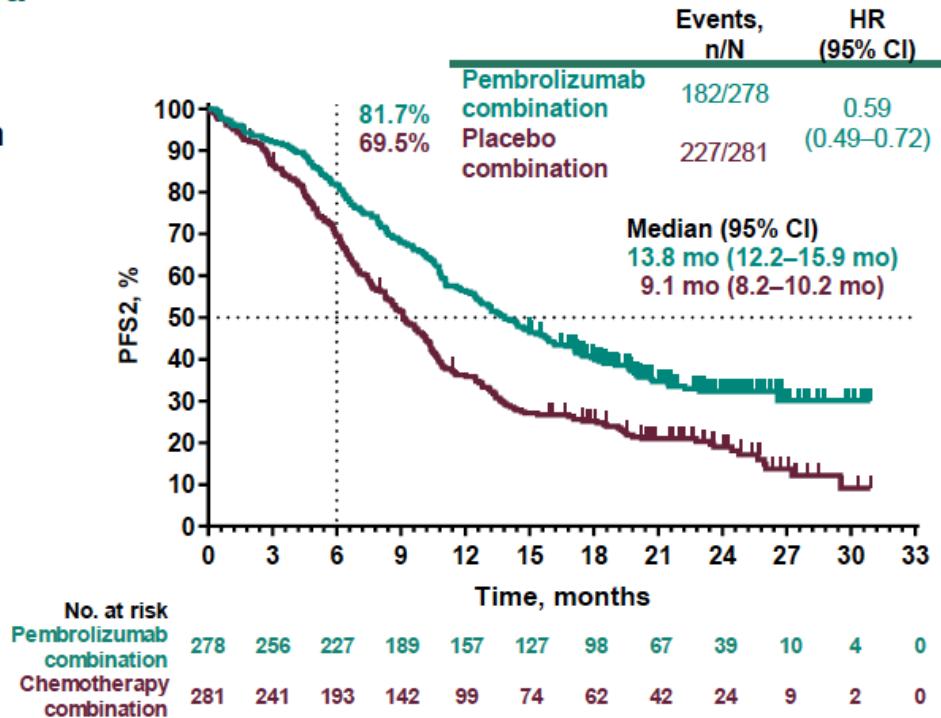


## KEYNOTE\_407

### Kaplan-Meier Estimates of PFS2 Overall Study Population<sup>a</sup>

- PFS2 defined by EMA as time from randomization to objective tumor progression on next-line treatment or death from any cause<sup>1</sup>
- Can be used to assess impact of crossover on OS and whether therapy in one line positively or negatively affects efficacy of the next line of therapy

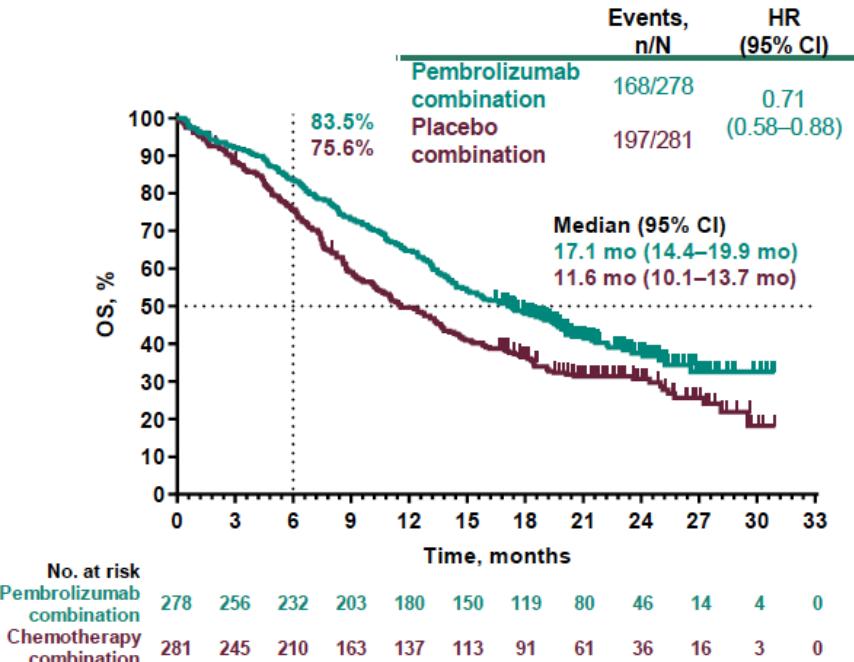
#### Representation of PFS, OS, and PFS2



# Inmunoterapia en 1L: ¿Es el lugar apropiado?

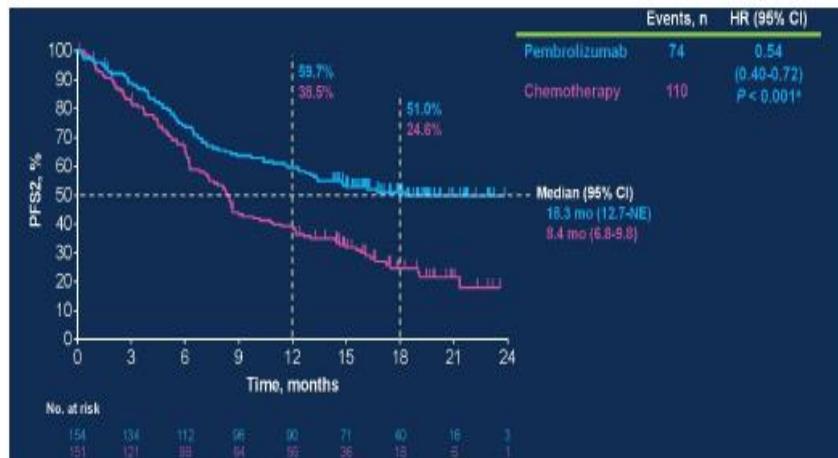
## KEYNOTE\_407

### Overall Study Population

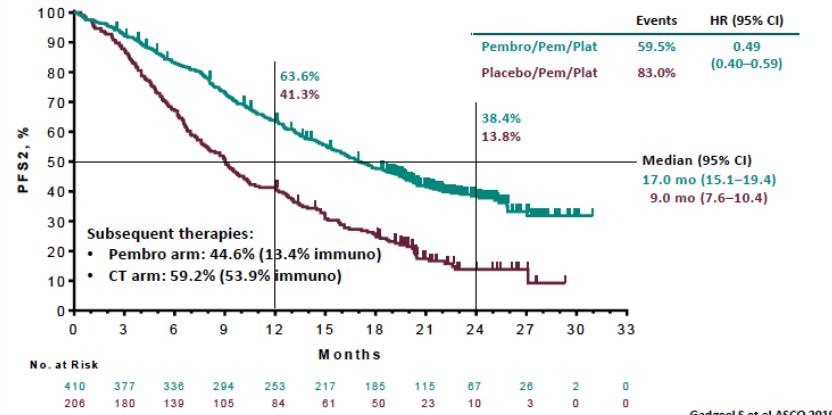


Median follow-up 14.3 months

## KEYNOTE 024



### ITT PFS2 ITT in KEYNOTE 189 trial



Gadgeel S et al ASCO 2019

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# Inmunoterapia en 1L: ¿Es el lugar apropiado?

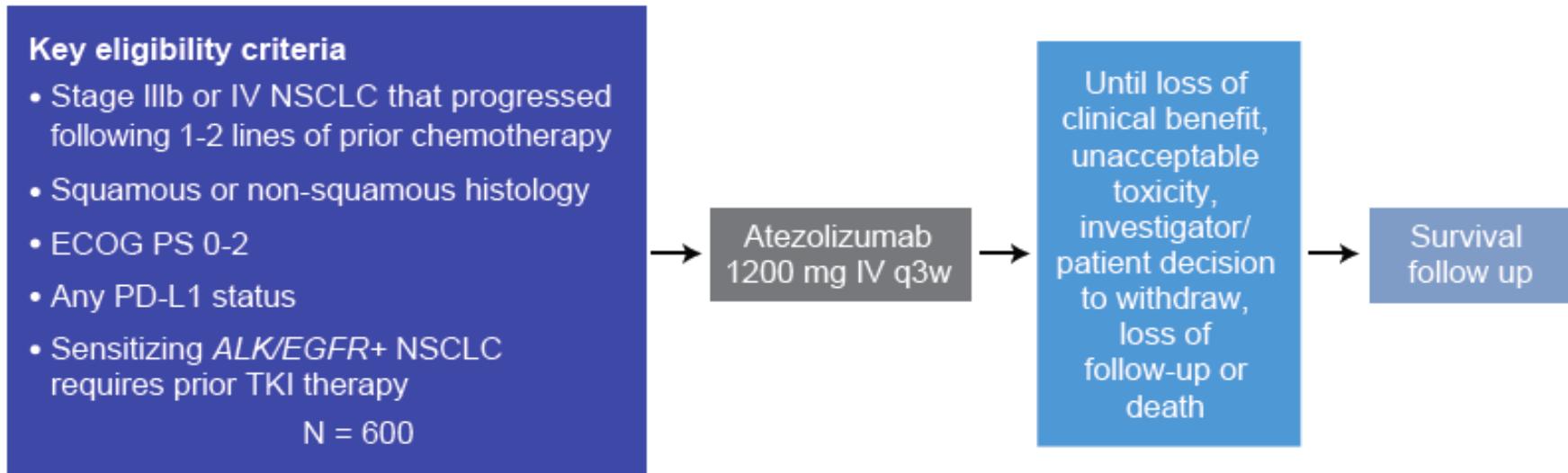
## KEYNOTE\_407

**Table 2. Summary of OS, PFS, ORR, DOR, and PFS2 in the Total Population (ITT) and Across PD-L1 TPS Groups**

End Point	Total N = 559	TPS ≥50% N = 146	TPS 1–49% N = 207	TPS <1% N = 194
OS, HR (95% CI)	0.71 (0.58–0.88)	0.79 (0.52–1.21)	0.59 (0.42–0.84)	0.79 (0.56–1.11)
PFS, HR (95% CI)	0.57 (0.47–0.69)	0.43 (0.29–0.63)	0.52 (0.38–0.71)	0.67 (0.49–0.91)
ORR, pembrolizumab combination vs placebo combination	62.6% vs 38.4%	64.4% vs 30.1%	55.3% vs 42.3%	67.4% vs 41.4%
DOR, median (range), mo, pembrolizumab combination vs placebo combination	8.8 (1.3+ to 28.4+) vs 4.9 (1.3+ to 28.3+)	9.2 (2.7 to 25.8+) vs 4.6 (1.3+ to 28.3+)	10.4 (1.3+ to 28.4+) vs 4.8 (2.0 to 22.8+)	6.9 (1.4+ to 25.4+) vs 5.7 (1.4+ to 25.6+)
PFS2, HR (95% CI)	0.59 (0.49–0.72)	0.61 (0.40–0.91)	0.51 (0.37–0.72)	0.61 (0.44–0.85)

+, no progressive disease as of last disease assessment before data cutoff date.

## TAIL study design



### Special populations:

- ECOG-PS 2
- Prior anti-PS-1 therapy
- Untreated/treated asymptomatic CNS metastases
- Autoimmune disease
- HBV/HCV/HIV+
- Severe renal impairment

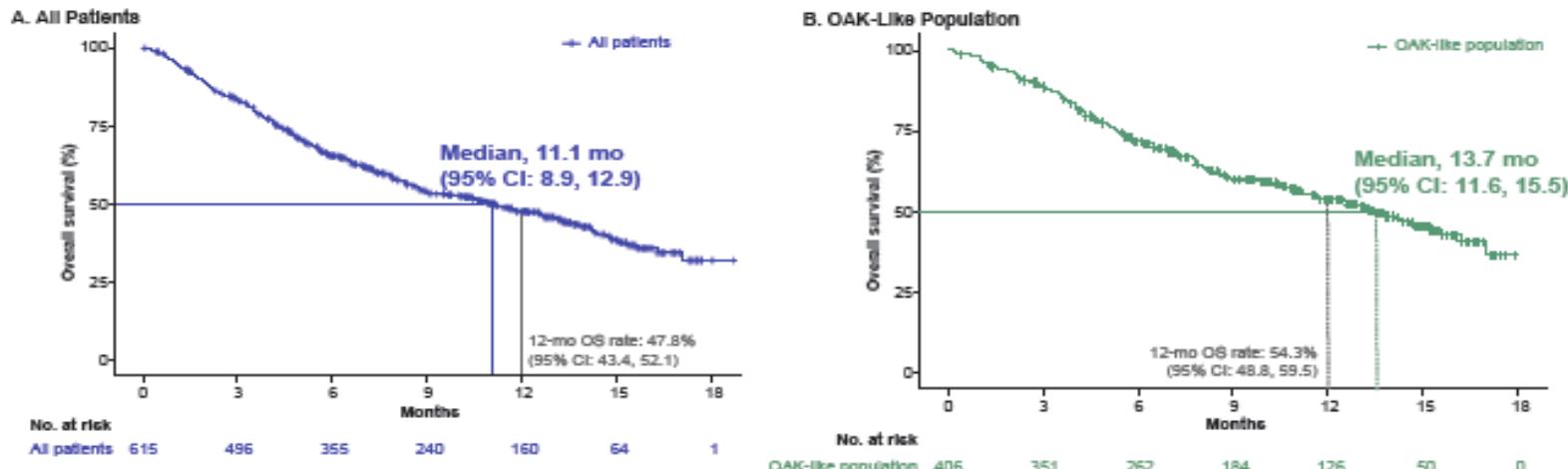
### Primary endpoint (readout $\approx$ 6 mo after LPI):

- Incidence of SAEs related to atezolizumab<sup>a</sup>
- Incidence of irAEs related to atezolizumab<sup>b</sup>

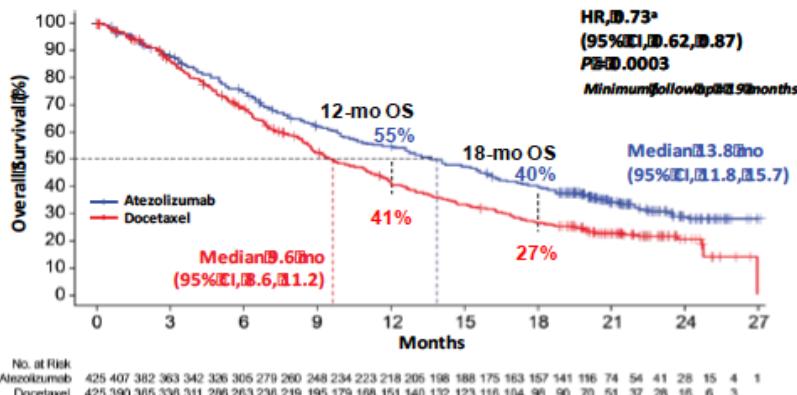
## TAIL study design

Characteristic	All Patients (N = 615)	All Patients (N = 615)
Median age (min-max), y	64.0 (24-88)	
Male, n (%)	370 (60.2)	
ECOG PS, n (%)		
0-1	554 (90.1)	
2	61 (9.9)	
Stage IV at diagnosis, n (%)	581 (94.5)	
Histology, n (%) <sup>a</sup>		
Non-squamous	462 (75.1)	
Squamous	152 (24.7)	
Prior lines of NSCLC therapy, n (%)		
1	398 (64.7)	
2	177 (28.8)	
> 2	40 (6.5)	
Prior chemotherapy, n (%) <sup>b</sup>	611 (99.3)	
Prior anti-PD-1 therapy, n (%) <sup>c</sup>	39 (6.3)	
≥ 2 prior lines of NSCLC therapy	35 (89.7)	
EGFR mutation, n (%)	40 (6.5)	
EML4-ALK rearrangement, n (%)	5 (0.8)	
PD-L1 expression on TC, n (%) <sup>d</sup>		
Positive (≥ 1%)	213 (34.6)	
Negative (< 1%)	168 (27.3)	
Unknown	234 (38.1)	
CNS metastases, n (%)	89 (14.5)	
Renal impairment, n (%) <sup>e</sup>	78 (12.7)	
History of autoimmune disease, n (%)	30 (4.9)	
OAK-like population, n (%) <sup>f</sup>	406 (66.0)	

## TAIL study Overall Survival



### OS in OAK trial



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## TAIL study

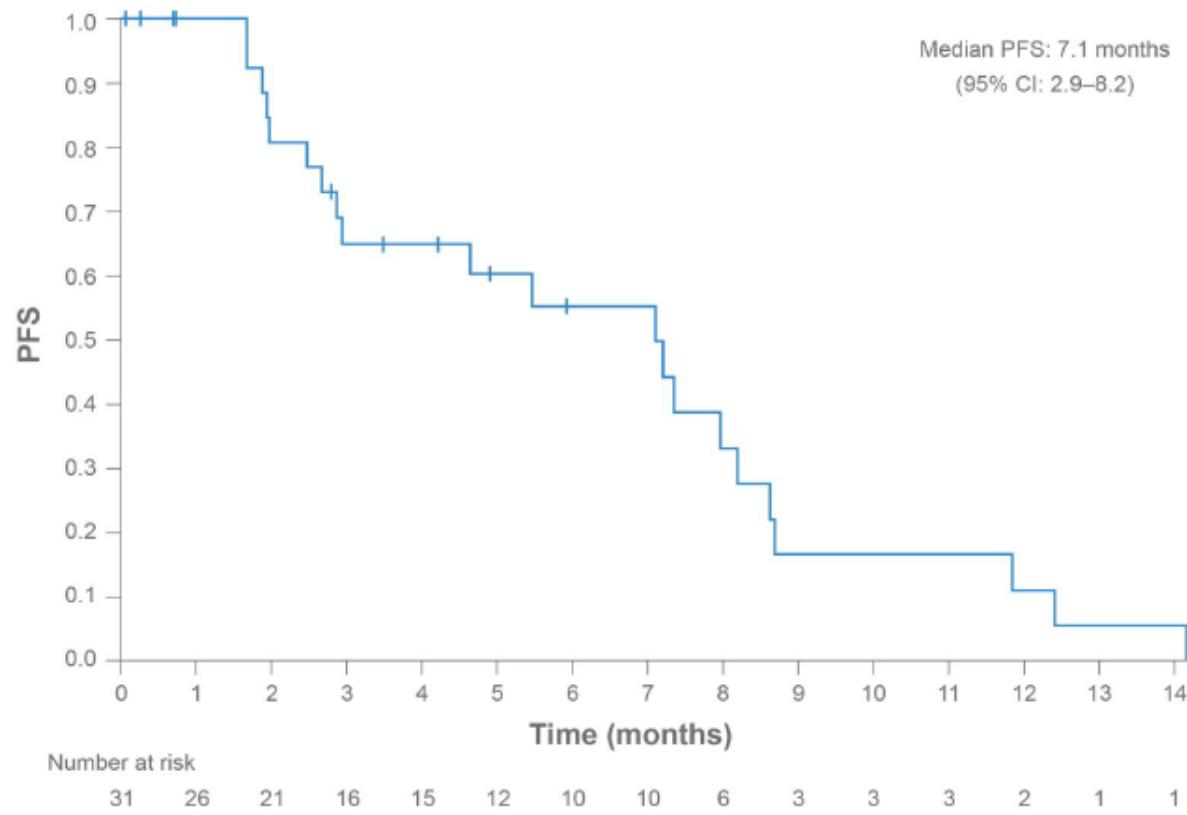
**Table 4. Efficacy in All Patients and Key Subgroups**

Patient Subgroup	n	CR, n (%)	PR, n (%)	ORR (95% CI), %	mPFS (95% CI), mo	OS events, n	mOS (95% CI), mo
All patients	615	3 (0.5)	65 (10.6)	11.1 (8.7, 13.8)	2.7 (2.1, 2.8)	312	11.1 (8.9, 12.9)
OAK-like population	406	3 (0.7)	52 (12.8)	13.5 (10.4, 17.3)	2.8 (2.7, 3.9)	181	13.7 (11.6, 15.5)
CNS metastases	89	0	5 (5.6)	5.6 (1.8, 12.6)	1.4 (1.3, 1.5)	58	5.1 (4.1, 8.5)
Renal impairment	78	0	9 (11.5)	11.5 (5.4, 20.8)	3.1 (2.6, 5.2)	38	13.0 (8.5, 17.0)
ECOG PS 2	61	0	2 (3.3)	3.3 (0.4, 11.3)	1.7 (1.4, 2.8)	46	3.5 (1.9, 5.1)
Prior anti-PD-1 therapy	39	0	1 (2.6)	2.6 (0.1, 13.5)	1.6 (1.3, 2.8)	23	6.2 (3.5, 15.0)
Autoimmune disease	30	0	3 (10.0)	10.0 (2.1, 26.5)	2.9 (1.4, 4.2)	18	10.1 (6.5, 14.1)

CR, complete response; mPFS, median progression-free survival; PR, partial response.

## VARGADO study: Docetaxel + Nintedanib

**Figure 3. PFS by investigator assessment (n=31)**



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## Pembrolizumab Plus Platinum-Based Chemotherapy in NSCLC With Brain Metastases: Pooled Analysis of KEYNOTE-021, 189, and 407

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## Outcomes With Pembrolizumab Monotherapy in Patients With PD-L1–Positive NSCLC With Brain Metastases: Pooled Analysis of KEYNOTE-001, 010, 024, and 042

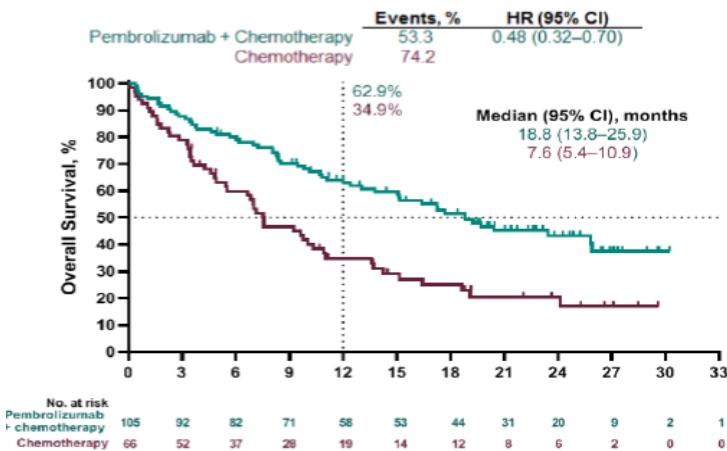
Aaron S. Mansfield,<sup>1</sup> Roy S. Herbst,<sup>2</sup> Gilberto Castro Jr,<sup>3</sup> Rina Hui,<sup>4</sup> Nir Peled,<sup>5</sup> Dong-Wan Kim,<sup>6</sup> Silvia Novello,<sup>7</sup> Miyako Satouchi,<sup>8</sup> Yi-Long Wu,<sup>9</sup> Edward B. Garon,<sup>10</sup> Martin Reck,<sup>11</sup> Andrew G. Robinson,<sup>12</sup> Ayman Samkari,<sup>13</sup> Bilal Piperdi,<sup>13</sup> Victoria Ebiana,<sup>13</sup> Jianxin Lin,<sup>13</sup> Tony SK Mok<sup>14</sup>

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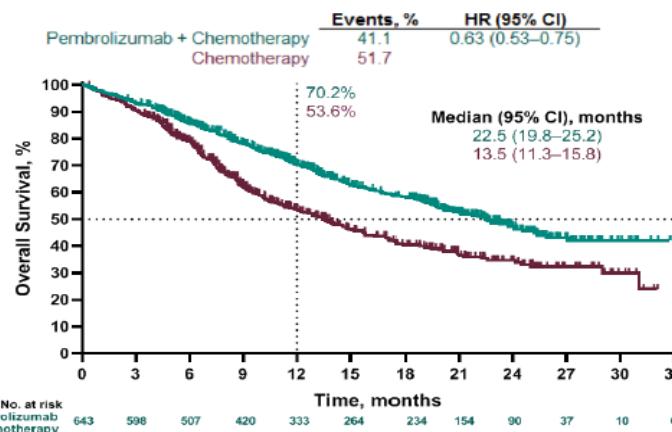
# Inmunoterapia en MTS cerebrales

## KN 021, 189 y 407

### With Brain Metastases

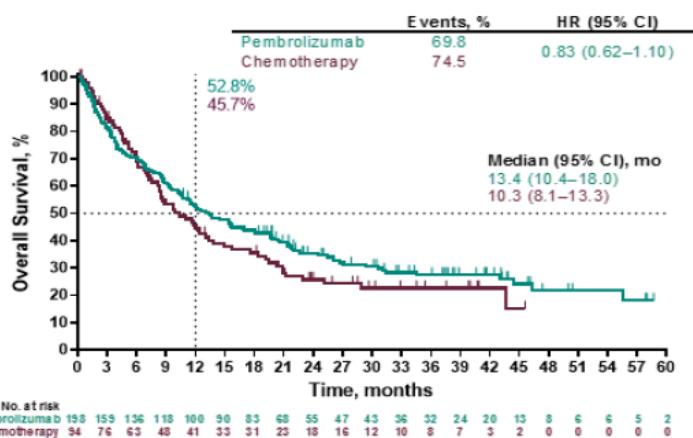


### Without Brain Metastases

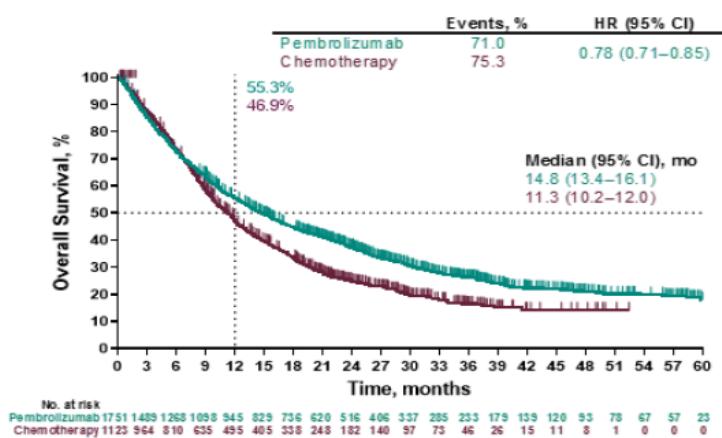


## KN 001, 010, 24 y 42

### PD-L1 TPS ≥1% With Brain Metastases

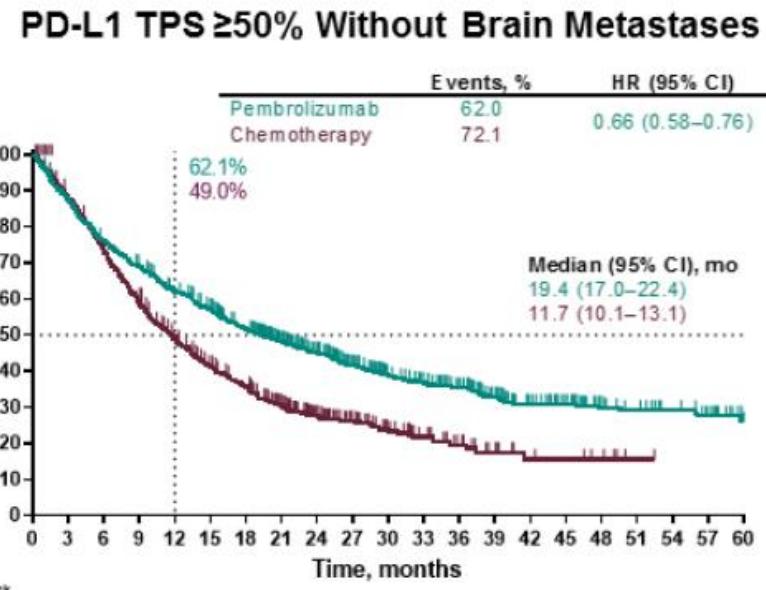
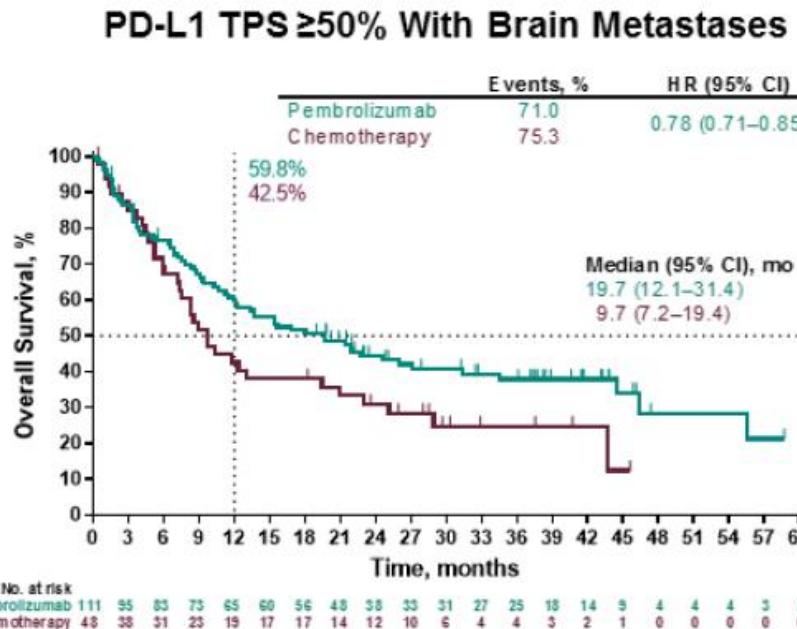


### PD-L1 TPS ≥1% Without Brain Metastases



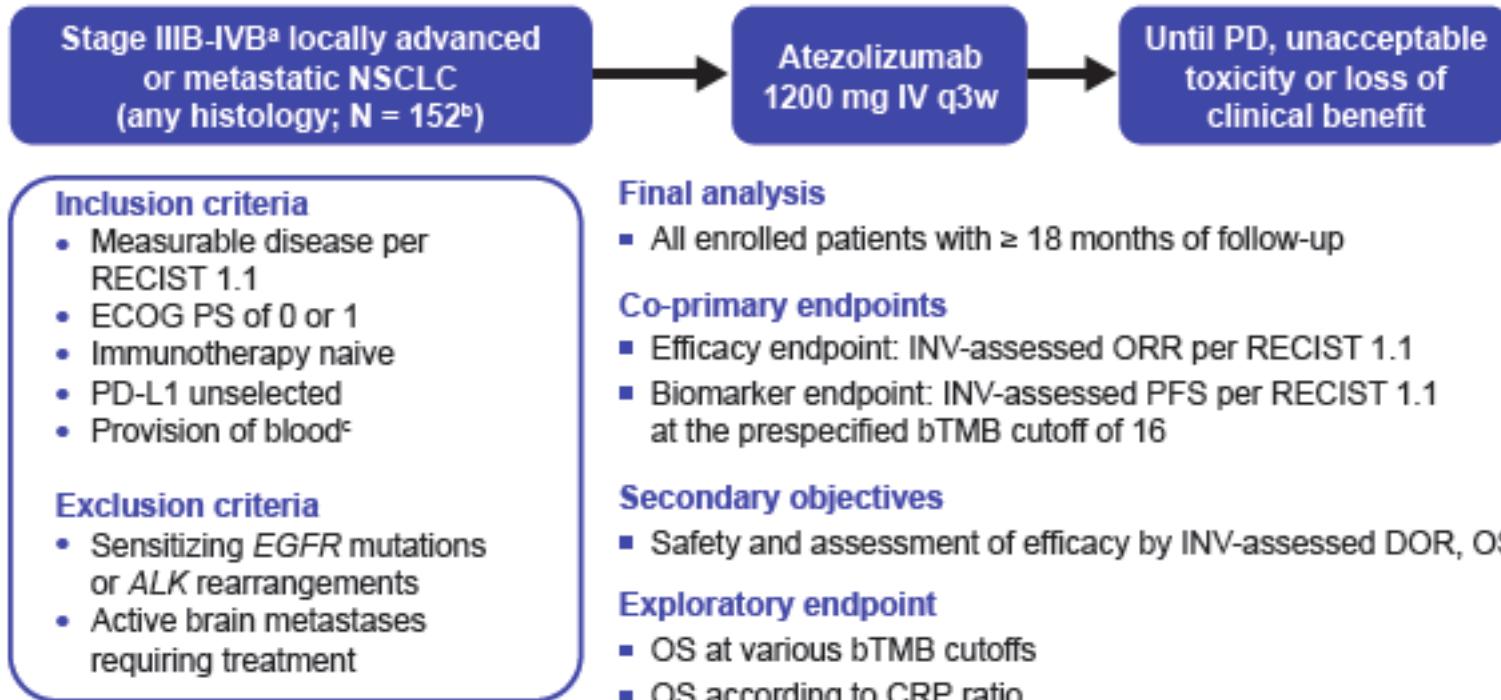
KN 001, 010, 24 y 42

## OS in Patients With or Without Brain Metastases Pooled Analysis Population<sup>a</sup>

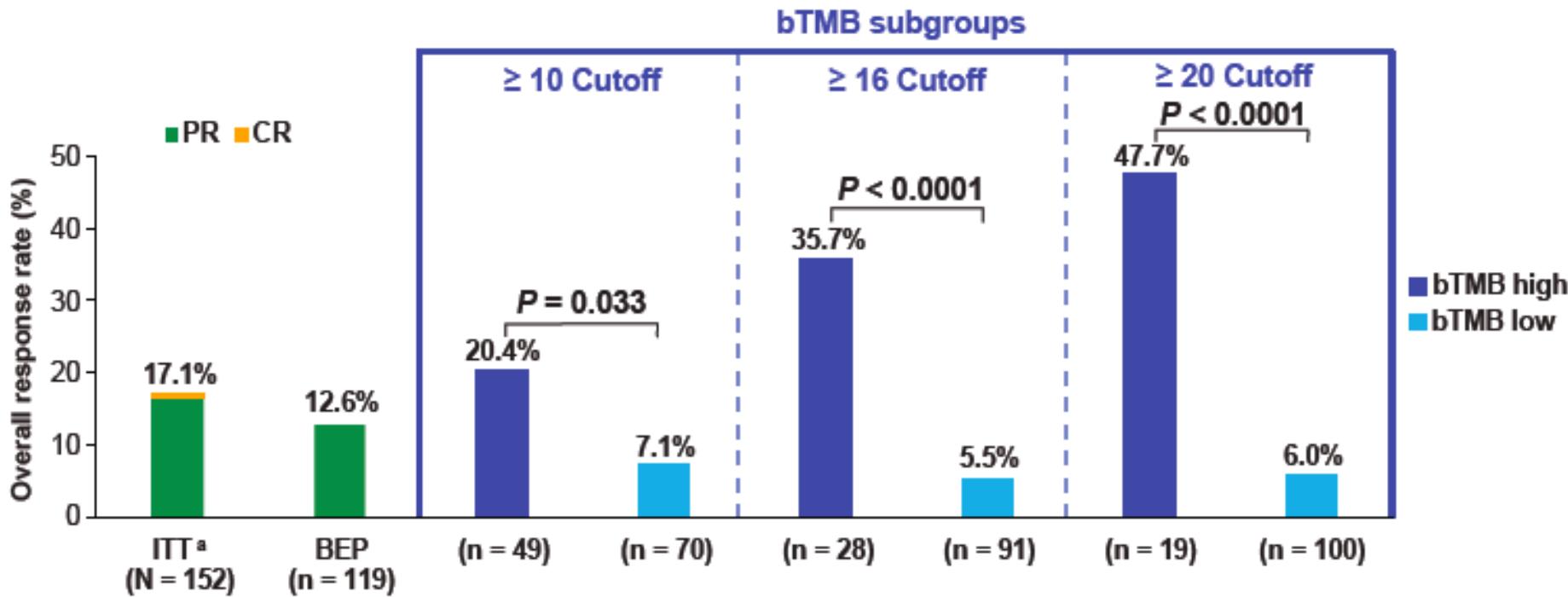


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## B-F1RST study design

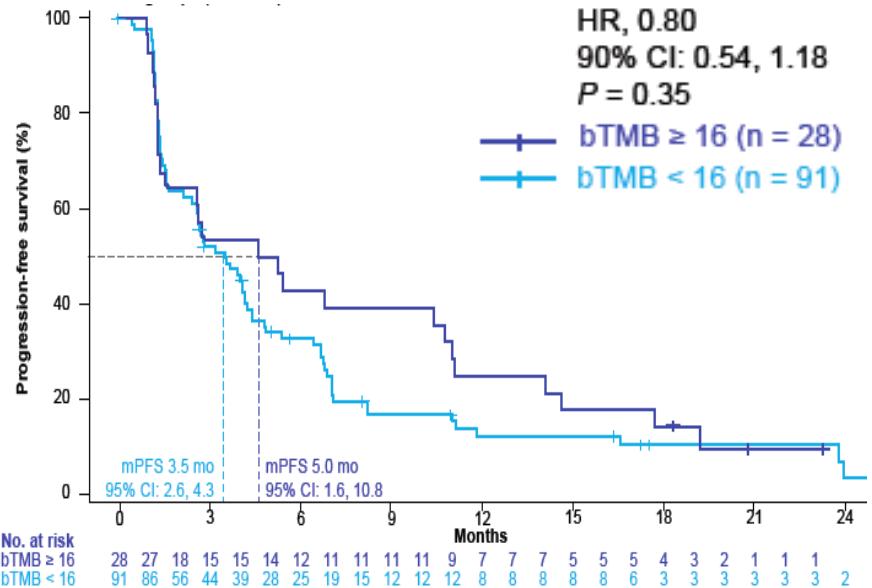


## B-F1RST study design

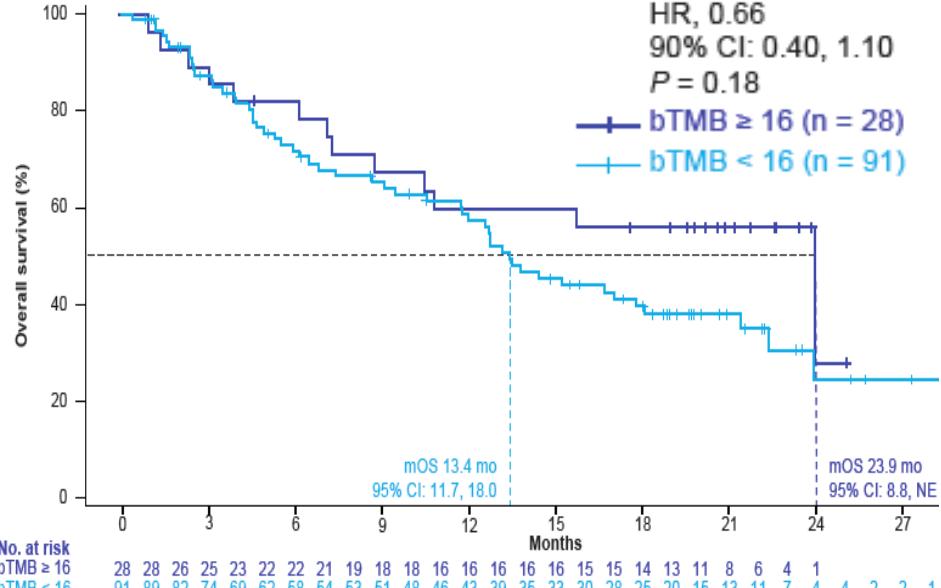


## B-F1RST study design

### Progression-free Survival



### Overall Survival



mPFS y OS fue superior en pacientes con TMB alto

## KEYNOTE 024

