



Combinación de inmunoterapia en primera línea de enfermedad avanzada

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Iniciativa científica de:



Con el patrocinio de



Grupo Español de Cáncer de Pulmón
Spanish Lung Cancer Group

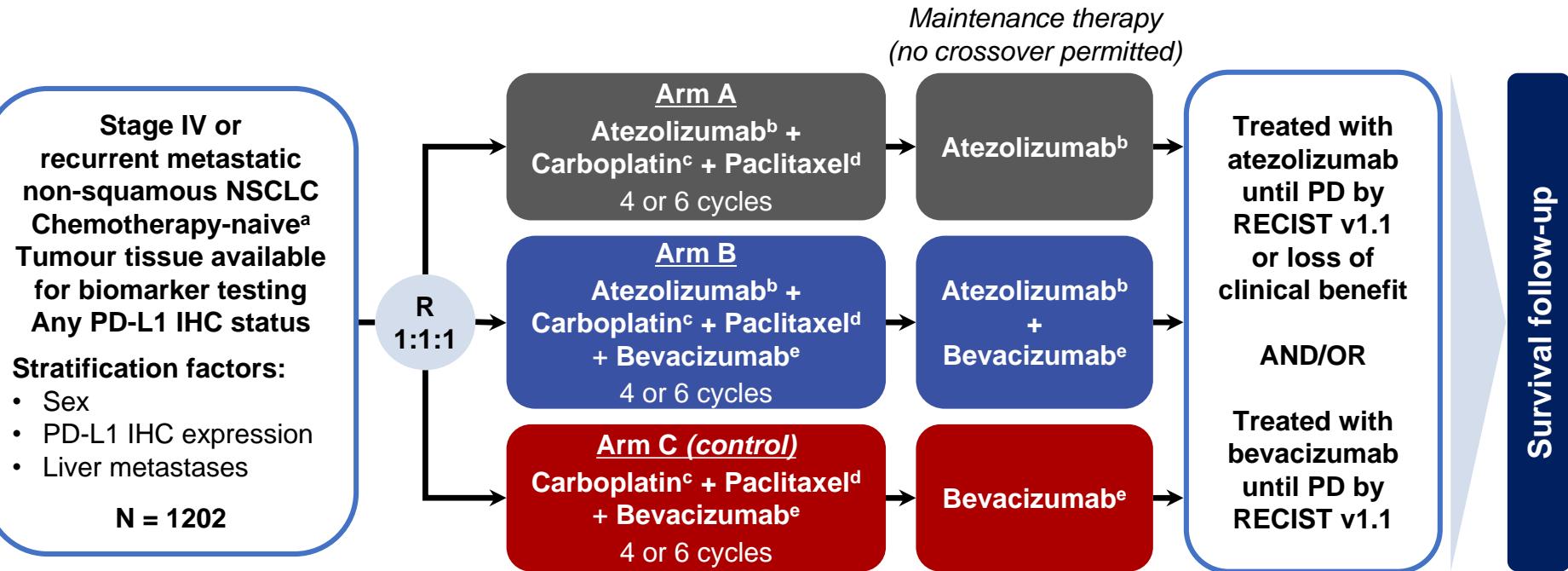
IMpower150: Efficacy of Atezolizumab Plus Bevacizumab and Chemotherapy in 1L Metastatic Nonsquamous NSCLC Across Key Subgroups

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IMpower150 study design

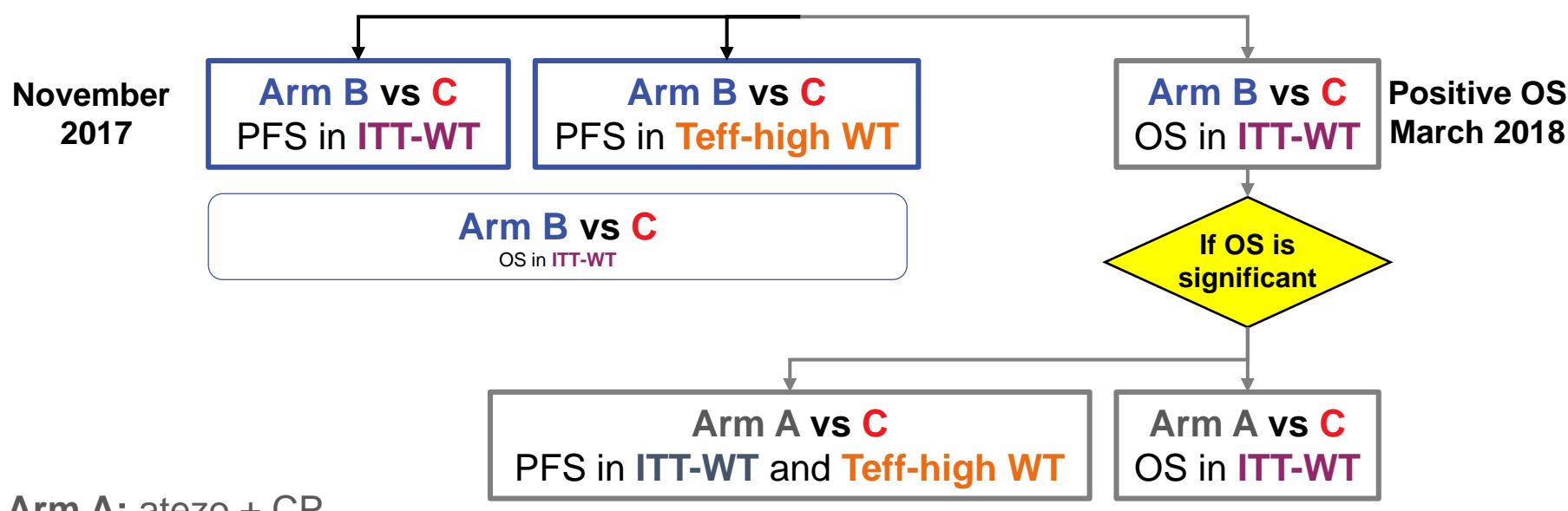


The principal question is to assess whether the addition of atezolizumab to Arm C provides clinical benefit

a Patients with a sensitising EGFR mutation or ALK translocation must have disease progression or intolerance of treatment with one or more approved targeted therapies. b Atezolizumab: 1200 mg IV q3w. c Carboplatin: AUC 6 IV q3w.

d Paclitaxel: 200 mg/m² IV q3w. e Bevacizumab: 15 mg/kg IV q3w.

Statistical testing plan for the co-primary endpoints in IMpower150



Arm A: atezo + CP

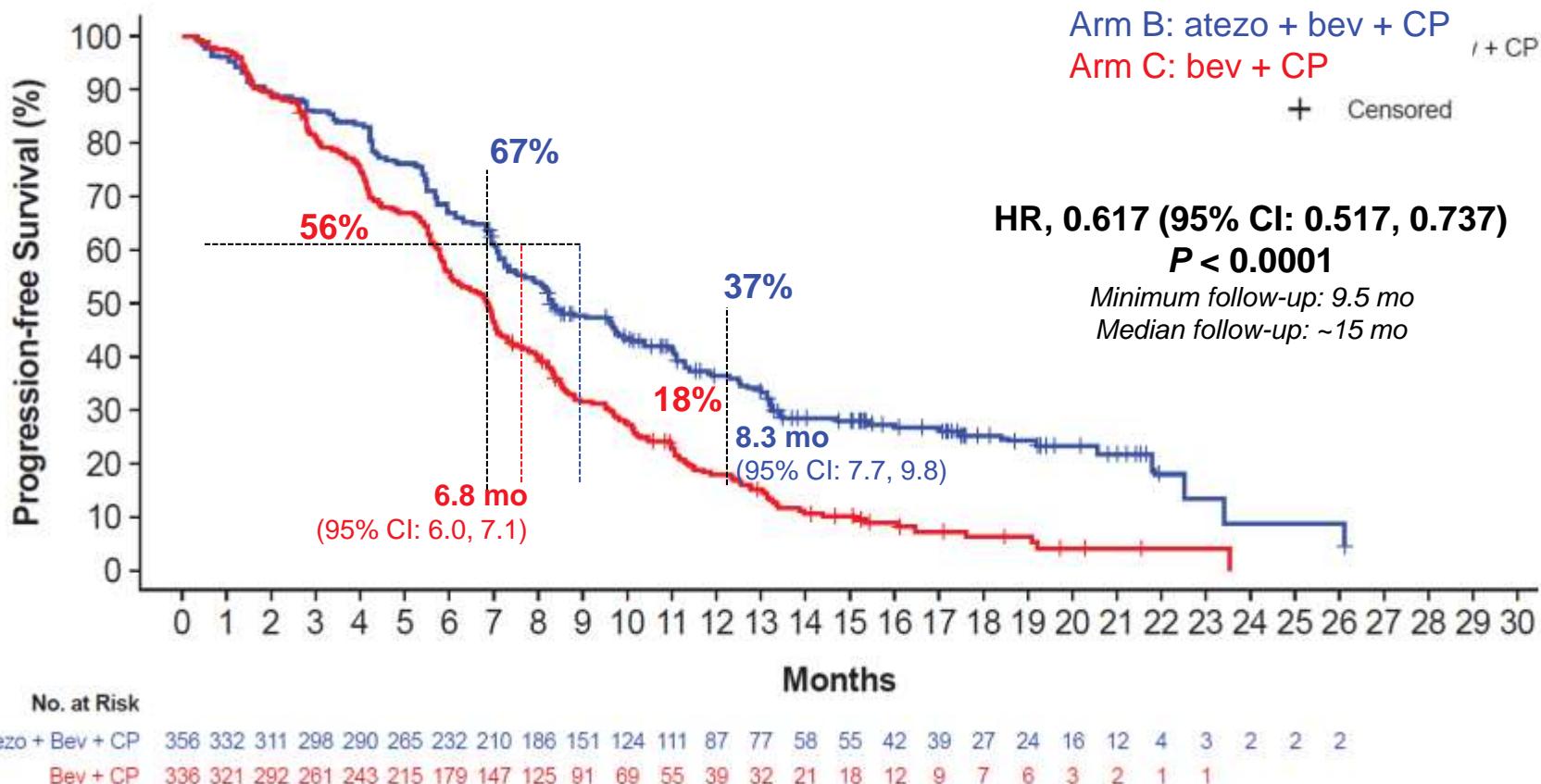
Arm B: atezo + bev + CP

Arm C: bev + CP (control)

Positive PFS results were presented in November 17
This presentation will provide a more in depth analysis of PFS results in key subgroups of patients

atezo, atezolizumab; bev, bevacizumab; CP, carboplatin + paclitaxel.

INV-assessed PFS in ITT-WT (Arm B vs Arm C)



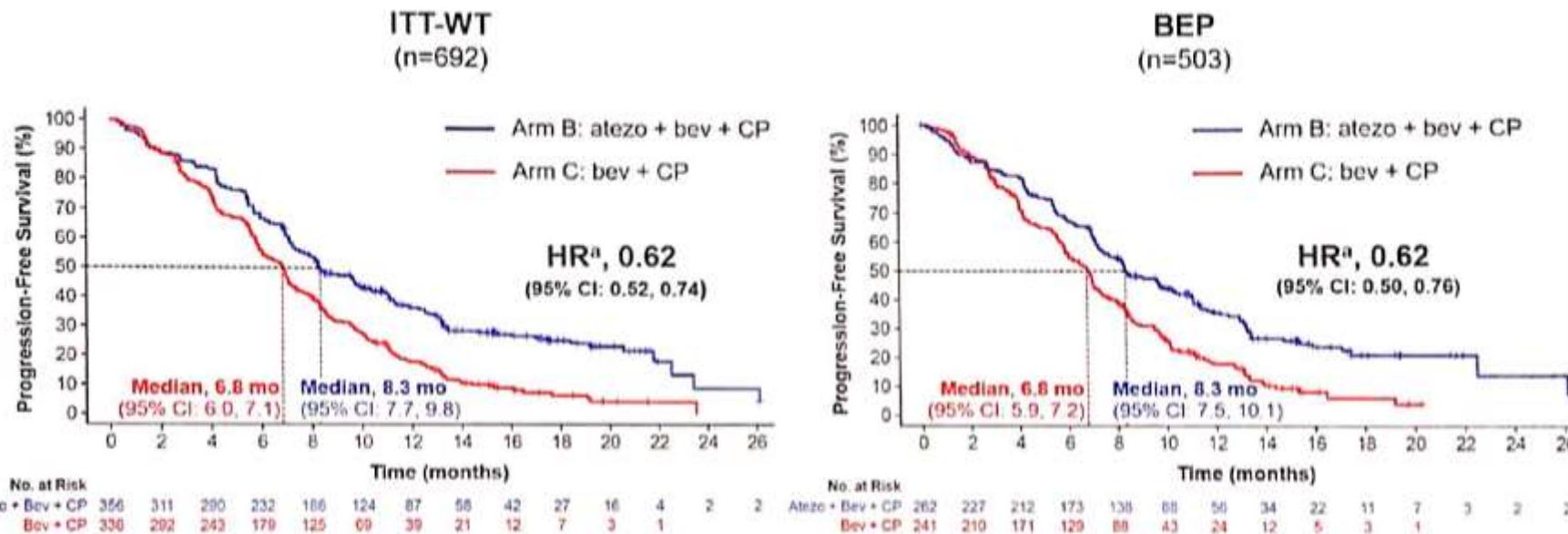
INV, investigator.

Data cutoff: September 15, 2017

Efficacy in key subgroups in the Impower 150 Study

- This analysis aims to further understand the PFS efficacy of atezolizumab + bevacizumab + chemotherapy in key patient populations in the IMpower150 study
 - PD-L1 IHC expression subgroups defined by the SP142 and SP263 assays (N= 503)
 - Patients with *EGFR/ALK* genetic alterations
 - Patients with liver metastases at baseline

Similar PFS Benefit in ARM B vs C in IMpower150 ITT-WT and BEP



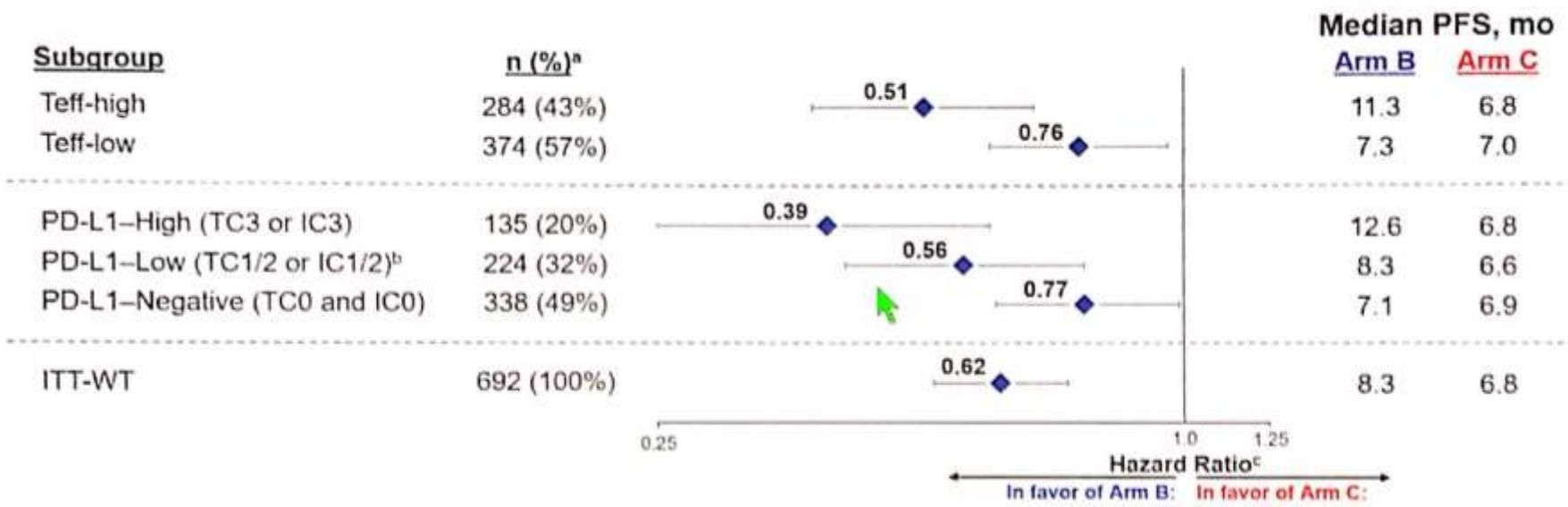
Atezo, atezolizumab; BEP, biomarker evaluable population for SP263; bev, bevacizumab; CP, carboplatin + paclitaxel.

^a Stratified HR for ITT-WT; unstratified HR for BEP.

Data cutoff: September 15, 2017

Kowanetz M, Socinski M, et al. AACR 2018
IMpower150: Efficacy Across Subgroups

PFS Benefit in Arm B was Observed Across All Biomarker Subgroups, Including PD-L1-Negative Patients (by SP142 IHC)



- Teff gene signature enriches for PFS similarly to PD-L1 IHC, including biomarker-negative patients

Atezo, atezolizumab; bev, bevacizumab; CP, carboplatin + paclitaxel; IC, tumor-infiltrating immune cells; TC, tumor cells.

^a Teff % prevalence out of those tested in ITT-WT (n = 658); PD-L1 IHC % prevalence out of ITT-WT (n = 692), using the SP142 assay.

^b Mutually exclusive subgroup that excluded TC3 or IC3 patients.

^c Stratified HRs for ITT-WT and Teff-high WT populations; unstratified HRs for all other subgroups.

TC3 or IC3 = PD-L1+ ≥ 50% of TC or ≥ 10% of IC; TC1/2/3 or IC1/2/3 = PD-L1+ ≥ 1% of TC or IC; TC0 and IC0 = PD-L1+ < 1% of TC and IC.

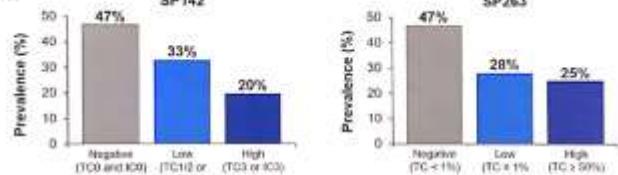
Data cutoff: September 15, 2017.

Reck M, et al. ESMO IO 2017 [LBA_PR1].

Kowanetz M, Socinski M, et al. AACR 2018
IMpower150: Efficacy Across Subgroups

16 Analysis of PD-L1 Subgroups Using the SP142 and SP263 IHC Assays

- The Blueprint analysis showed that the SP142 assay differed analytically from other PD-L1 IHC assays (SP263, 22c3, and 28-8)¹; however SP263 and 22c3 were similar and highly concordant¹
- The SP142 assay was shown to be clinically equivalent with the 22c3 assay in OAK²
- PD-L1 prevalence in IMpower150 using the SP142 and SP263 IHC assays was similar and substantial overlap was observed



¹BEP: Bevacizumab + carboplatin + paclitaxel.

²OAK: Osimertinib subgroup that excluded TC3 or IC3 patients. 185P vs 177 ITT patients.

TC0: TC < 1% or IC0: < 1% of TC; TC1/2: TC 1-10% or IC1/2: 1-10%; TC3: TC ≥ 10% and IC3: ≥ 1% of IC.

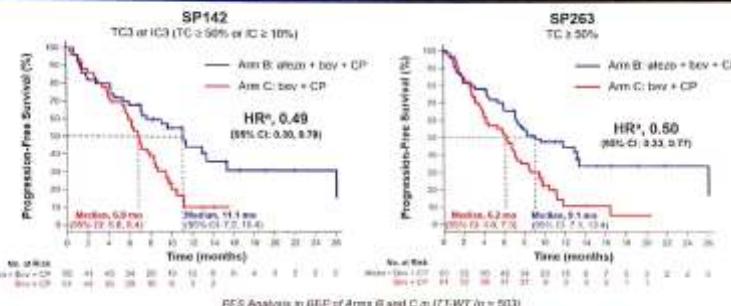
TG: tumor cells.

Data cutoff: September 15, 2017.

1. Hirsh V, et al. J Thorac Oncol. 2017; 2: 161-169. 2. Ramlau M, et al. ESMO 2017 (Abstract #900).

Ramau M, Szczerba M, et al. AACR 2018; IMpower150: Efficacy Across Subgroups

17 PFS for Arm B vs C in SP142 and SP263 PD-L1-High Subgroups



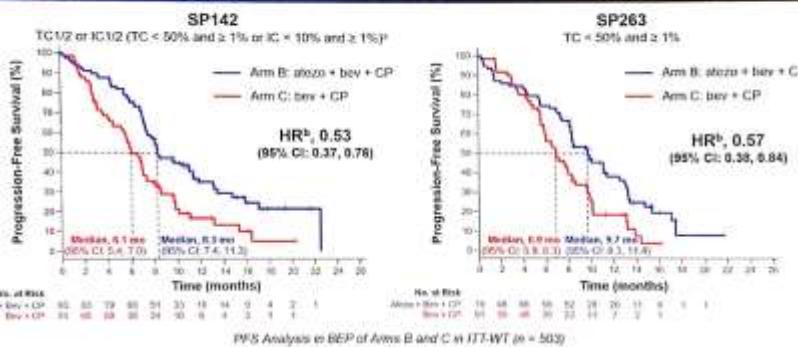
^aArm: arm treatment; HR: hazard ratio; PFS: progression-free survival; Int: intention-to-treat; CP: carboplatin + paclitaxel.

TC: tumor-infiltrating immune cells; TG: tumor cells.

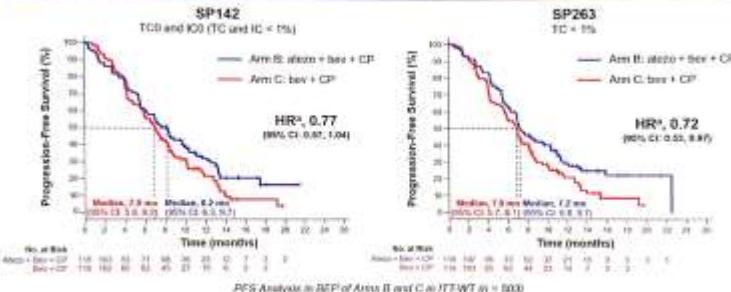
^bUnadjusted HR. Data cutoff: September 12, 2017.

Ramau M, Szczerba M, et al. AACR 2018; IMpower150: Efficacy Across Subgroups

18 PFS for Arm B vs C in SP142 and SP263 PD-L1-Low Subgroups



19 PFS for Arm B vs C in SP142 and SP263 PD-L1-Negative Subgroups



^aArm: arm treatment; HR: hazard ratio; PFS: progression-free survival; Int: intention-to-treat; CP: carboplatin + paclitaxel.

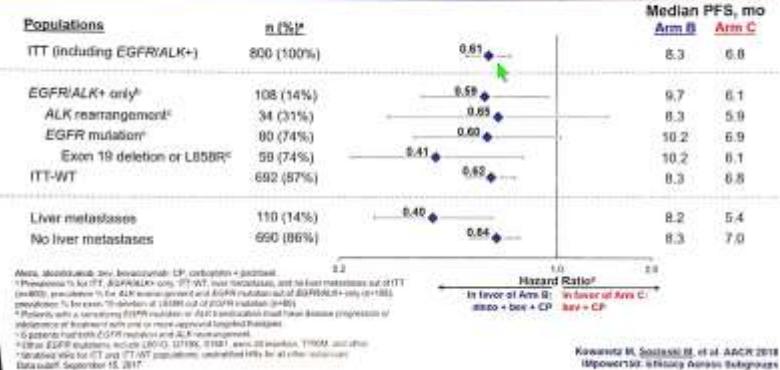
TC: tumor-infiltrating immune cells; TG: tumor cells.

^bUnadjusted HR. Data cutoff: September 12, 2017.

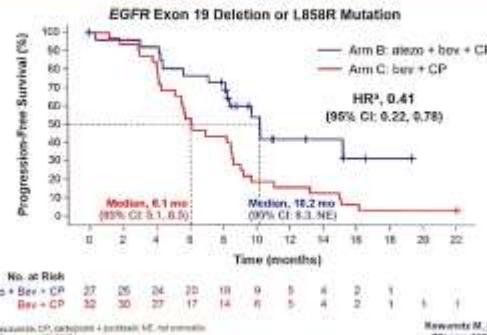
Ramau M, Szczerba M, et al. AACR 2018; IMpower150: Efficacy Across Subgroups

Poblaciones Especiales: mutaciones de EGFR y ALK

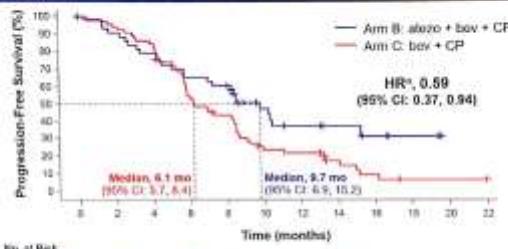
PFS Benefit in Arm B was Observed in Key Populations



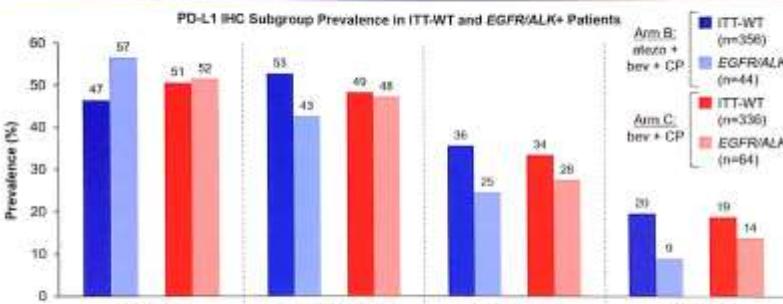
PFS for Arm B vs C in Patients With Actionable EGFR Mutations (Exon 19 Deletion or L858R Mutation)



PFS for Arm B vs C in EGFR/ALK+ Patients



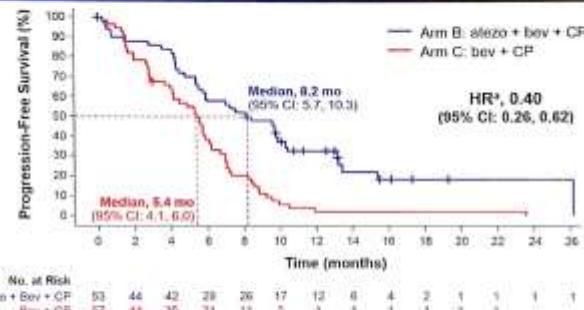
PFS Benefit in EGFR/ALK+ Patients was Observed Despite Lower PD-L1 Expression in This Population



Kawarabayashi M, Socinski M, et al. AACR 2018
#Poster1160, Efficiency Across Subgroups
Data cutoff: September 15, 2017.

Pacientes con metástasis hepáticas

PFS for Arm B vs C in Patients With Liver Metastasis at Baseline



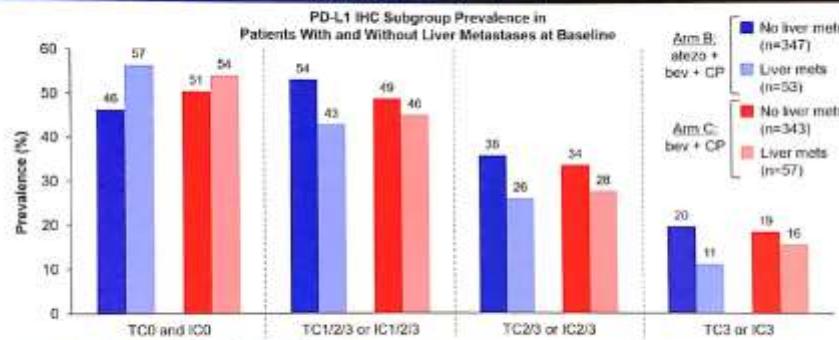
- Patients with liver metastases at baseline, which is a known negative prognostic factor, demonstrated a clinically meaningful PFS benefit for Arm B vs Arm C

^aHR: hazard ratio; bev: bevacizumab; CP: cisplatin + carboplatin

^bUnpublished HR. Data cutoff: September 13, 2017

Kowaratz M, Szczerba M, et al. AACR 2018
#Mpower150: Efficacy Across Subgroups

PFS Benefit in Patients With Liver Metastases was Observed Despite Lower PD-L1 Expression in This Population



Mean, immunopositive; bev, bevacizumab; CP, cisplatin + carboplatin; mets, metastases.
TC0 or IC0 = PD-L1+ in 0% to 10% of TC or in 0% of IC; TC2/3 or IC2/3 = PD-L1+ > 35% of TC or IC; TC1/2/3 or IC1/2/3 = PD-L1+ > 1% of TC or IC;
TC2 and IC2 = PD-L1+ = 1% of TC and IC.
^bData cutoff: December 16, 2017.

Kowaratz M, Szczerba M, et al. AACR 2018
#Mpower150: Efficacy Across Subgroups
#AACR2018

Atezolizumab + BVZ + QT ha demostrado un beneficio significativo en NSQ mNSCLC, en todos los subgrupos de expresión de PD-L1 independientemente del método de IHQ utilizado

El beneficio clínico en PFS se ha observado en todos los pacientes, incluidos los pacientes con mutaciones de EGFR, translocaciones de ALK y metástasis hepáticas.

- Este beneficio que no se había observado en los estudios de 2^a línea con anti PD-L1/ anti PD-1 puede deberse a la adición de BVZ a atezolizumab
- Esto sugiere que la combinación de Atezolizumab + BVZ + QT constituye un nuevo tratamiento en estas poblaciones

IMpower 150 ha demostrado recientemente un beneficio significativo en supervivencia global los datos se presentaran en ASCO 2018

Keynote 189 and IMpower150

	Keynote 189 ¹	IMpower150
Populations	<ul style="list-style-type: none"> Nonsquamous NSCLC EGFR and ALK+ patients excluded Symptomatic CNS mets excluded Crossover permitted 	<ul style="list-style-type: none"> Nonsquamous NSCLC EGFR and ALK+ patients allowed² Active/untreated CNS mets excluded No crossover
Sample Sizes	<ul style="list-style-type: none"> N=616 	<ul style="list-style-type: none"> N=692 (ITT WT; Arm B vs. C)
PFS ³	<ul style="list-style-type: none"> HR 0.52 (95% CI 0.43-0.64) Median PFS 8.8 vs. 4.9 months 	<ul style="list-style-type: none"> HR 0.617 (95% CI 0.52-0.74) Median 8.3 vs. 6.8 months
Overall Survival	<ul style="list-style-type: none"> HR 0.49 (0.38-0.64) Median NR vs. 11.3 months 	<ul style="list-style-type: none"> Positive OS Benefit (Data awaited)
Impact of PD-L1 Expression	<ul style="list-style-type: none"> OS improvement across all PD-L1 subgroups 	<ul style="list-style-type: none"> PFS improvement across all PD-L1 subgroups (OS data pending)