

19-23 DE OCTUBRE 2018, MUNICH

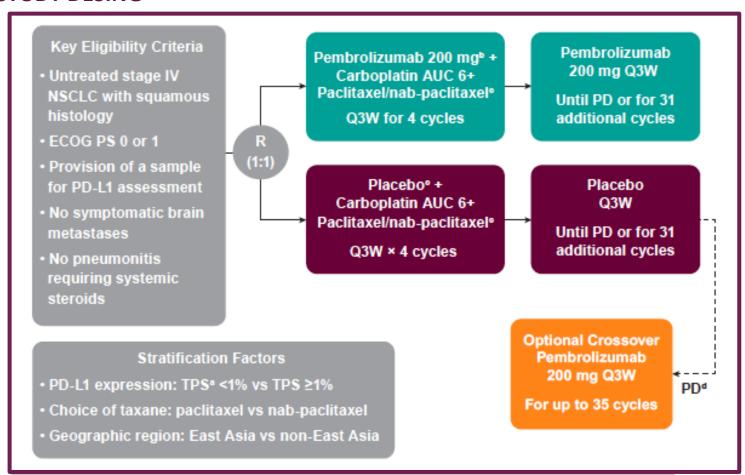
INMUNOTERAPIA I

Dra. Virginia Calvo





STUDY DESING



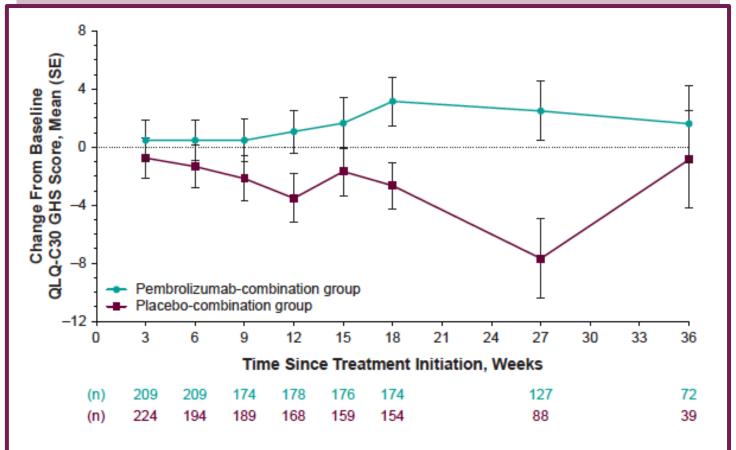
Primary endpoint: PFS by RECIST v1.1 (BICR), OS

Secondary endpoint: ORR and DoR by RECIST v1.1 (BIRC), safety





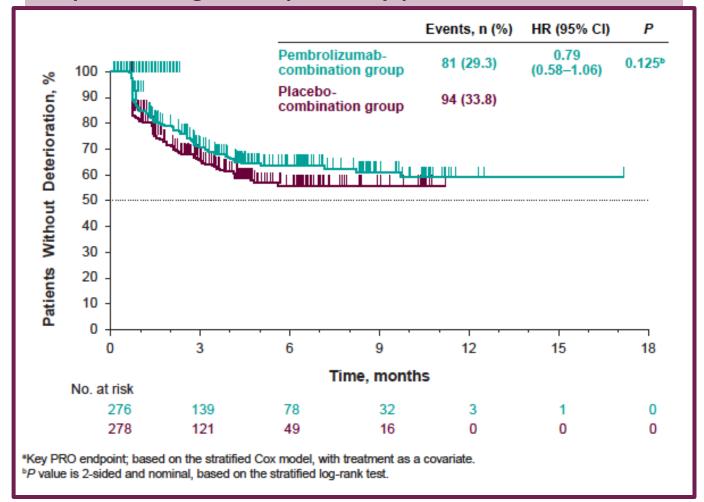
Mean change from baseline in QLC-C30 Global Health status/quality of life scores by visit







Kaplan-Meier estimate of time to deterioration in composite endpoint of cough, chest pain, or dyspnea





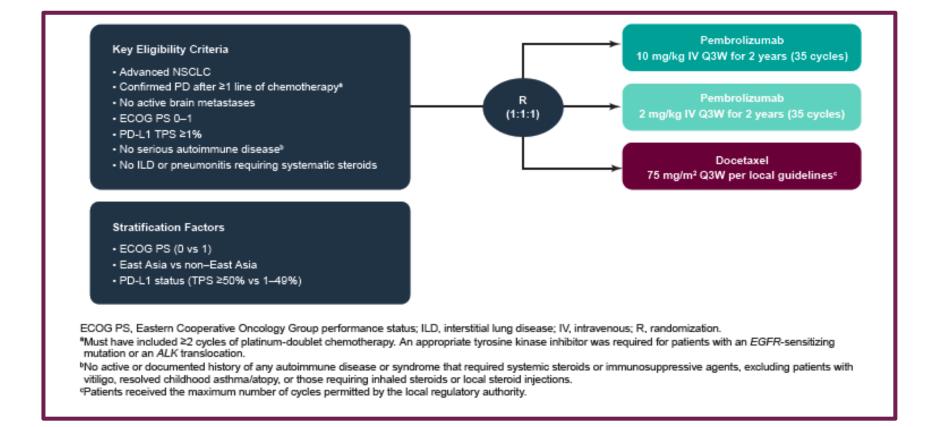




- Pembrolizumab plus carboplatin and paclitaxel or nab-paclitaxel maintained or improved quality of life compared with baseline and improved quality of life compared with placebo plus carboplatin and paclitaxel or nab-paclitaxel
- Pembrolizumab plus carboplatin and paclitaxel or nab-paclitaxel showed a numerical improvement in time to deterioration in cough, chest pain, or dyspnea compared with the control group (HR, 0.79; 95% CI, 0.58-1.06; p=0.125); the median time to deterioration in this endpoint was not reached in either group

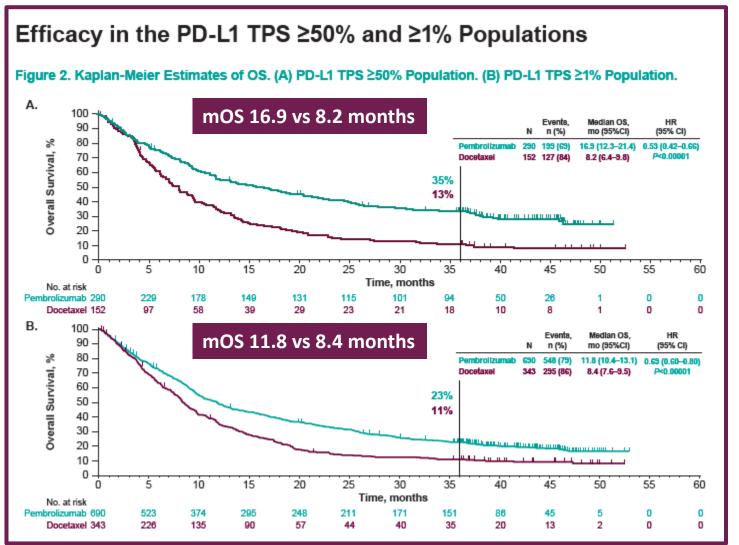








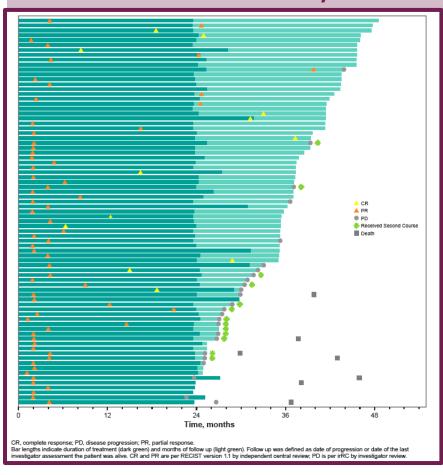








Treatment duration and time to response in patients who completed 35 cycles or 2 years of Pembrolizumab



- 79 patients completed 35 cycles or 2 years with median follow-up of 43.4 (35.7-49.8) months
- 75 of 79 (95%) of patients had CR o PR as best response per RECIST version 1.1 by independent central review
 - 48 patients (64%) had ongoing response
 - Median duration of response: NR
- Median OS was NR
- 25 patients (32%) had PD by investigator review after stopping 35 cycles or 2 years
 - 13 (52%) started second-course
 Pembrolizumab





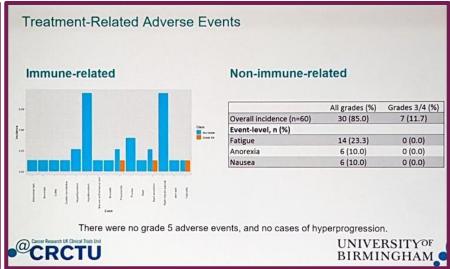
- With 42.6 months of follow-up, Pembrolizumab continued to prolong OS vs Docetaxel in patients with previously treated, PD-L1 expressing advanced NSCLC
- Pembrolizumab had a manageable long-term safety profile including in patients who completed 35 cycles or 2 years of treatment
- Most patients who completed 35 cycles or 2 years of treatment of Pembrolizumab therapy had durable response, with ongoing response in 64% of patients at median follow-up of 43.4 months
- 13 (52%) patients who had progressive disease after stopping Pembrolizumab were able to receive a second course of Pembrolizumab treatment
- Of the 14 patients who received second course of Pembrolizumab, 6 (43%) had a partial response and 5 (36%) had stable disease per RECIST version 1.1 by independent central review



1384PD. Pembrolizumab in performance status 2 patients with non-small lung cancer (NSCLC): results of the PePS2 trial



All (n = 60)	DCB (%) 20 (33.3)	Toxicity (%) 13 (21.7)	PR (%)	No RECIST 16 (26.7)	Median OS (95% CI) 11.7 (6.8 - NR)	Median PFS (95% CI) 5.4 (3.5 - 8.5)
	25 (55.5)	20 (22.7)	27 (20.5)	20 (20.7)	22,7 (0.0 141)	5, 1,(5.5 6.5)
Line of therapy						
First line (n = 9)	1 (11.1)	3 (33.3)	0 (0.0)	3 (33.3)	6.8 (2.4 - NR)	2.9 (1.9 - NR)
Subsequent line (n = 51)	19 (37.3)	10 (19.6)	17 (33.3)	13 (25.5)	12.1 (8.1 - NR)	6.0 (3.5 - 11.4)
PD-L1 Proportion Score						
< 1% (n = 27)	6 (22.2)	7 (25.9)	4 (14.8)	6 (22.2)	9.8 (4.5 - NR)	3.7 (2.1 - 8.1)
1-49% (n = 15)	5 (33.3)	0 (0.0)	5 (33.3)	3 (20.0)	NR	6.8 (3.5 - NR)
≥ 50%, (n = 15)	8 (58.3)	4 (26.7)	7 (46.7)	6 (40.0)	16.6 (4.6 - NR)	8.5 (1.9 - NR)
Unknown PD-L1 (n = 3)	1 (33.3)	2 (66.7)	1 (33.3)	1 (33.3)		



- PS2 patients frequently excluded from clinical trials
- Poor prognosis vs PS 0-1 patients
- Chemotherapy and targeted agents prolong survival and improve qualityof-life in PS2 advanced NSCLC patients
- PS2 patients
 - Clinical efficacy with Pembrolizumab comparable to PS 0-1 patients beyond 1L and with tolerable toxicity

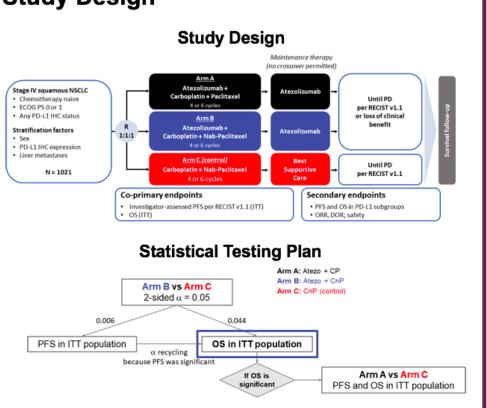




IMpower131: Background and Study Design



- The combination of chemotherapy and atezolizumab (atezo) may lead to enhanced anti-tumour activity
- IMpower131 is an open-label, randomised Phase III study of atezo in combination with carboplatin plus paclitaxel (CP) or nab-paclitaxel vs carboplatin plus nabpaclitaxel (CnP) in patients with first-line Stage IV squamous NSCLC
- In the primary analysis, PFS benefit was observed with atezo + CnP vs CnP (HR, 0.71; 95% Cl: 0.60, 0.85; P = 0.0001), with a safety profile that was consistent with the known risks of the individual agents¹
- The co-primary endpoints were tested first between Arms B and C







Updated PFS at the Second Interim OS Analysis



PFS in the ITT Population



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

12-month PFS

13.4%

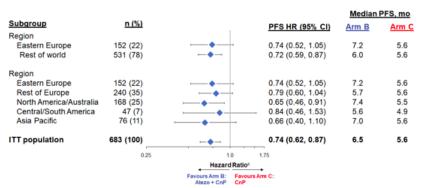
30

10-

25.4%

343 318 294 288 256 212 173 152 135 112 99 91 79 78 56 54 41 41 34 29 23 20 15 14 9 9 6 6 6 6 4 1 1 340 323 280 245 228 186 131 99 83 62 55 47 41 37 29 27 17 17 14 13 9 9 7 7 7 7 5 5 4 4 2 2

PFS by Geographic Region of Enrolment



- PFS benefit with atezo + CnP vs CnP was observed in the ITT population, as well as in subgroups by geographic region of enrolment, though PFS was not formally tested in these patient groups
 - Analysis in subgroups with a smaller number of patients (Central/South America and Asia Pacific) resulted in wide CIs

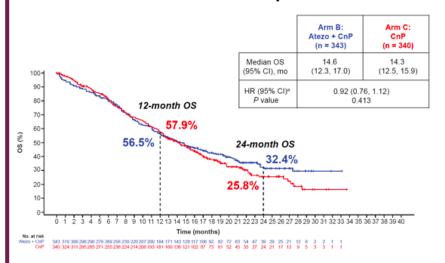




OS at the Second Interim OS Analysis



OS in the ITT Population



Subsequent Anti-Cancer Therapy

	Arm B: Atezo + CnP (n = 343)	Arm C: CnP (n = 340)
≥ 1 subsequent anti-cancer therapy, n (%)	116 (34%)	196 (58%)
Immunotherapy	19 (6%)	145 (43%)
Nivolumab	13 (4%)	124 (37%)
Pembrolizumab	4 (1%)	15 (4%)
Atezolizumab	2 (1%)	6 (2%)
Ipilimumab	1 (< 1%)	3 (1%)
Durvalumab	0	2 (1%)
Other	0	3 (1%)
Chemotherapy	102 (30%)	90 (26%)
Targeted therapy	22 (6%)	20 (6%)

 At the second interim OS analysis, the comparison of OS between Arms B and C did not meet the efficacy boundary, and OS continues to be followed





Safety and Conclusions



Safety Summary

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	Arm B: Atezo + CnP (n = 334)	Arm C: CnP (n = 334)		
Median treatment				
duration (range), mo				
Atezolizumab	6.7 (0-33)	NA		
Carboplatin	2.6 (0-7)	2.4 (0-7)		
Nab-paclitaxel	3.0 (0-7)	2.8 (0-7)		
Any AE	332 (99%)	324 (97%)		
Treatment relateda	316 (95%)	303 (91%)		
Grade 3/4 AE	244 (73%)	220 (66%)		
Treatment relateda	227 (68%)	191 (57%)		
Serious AE	154 (46%)	96 (29%)		
Treatment relateda	68 (20%)	35 (10%)		
Grade 5 AE	32 (10%)	14 (4%)		
Treatment relateda	4 (1%)	3 (1%)		
AE leading to any treatment withdrawal	99 (30%)	58 (17%)		
AE leading to any dose modification/interruption	260 (78%)	219 (66%)		

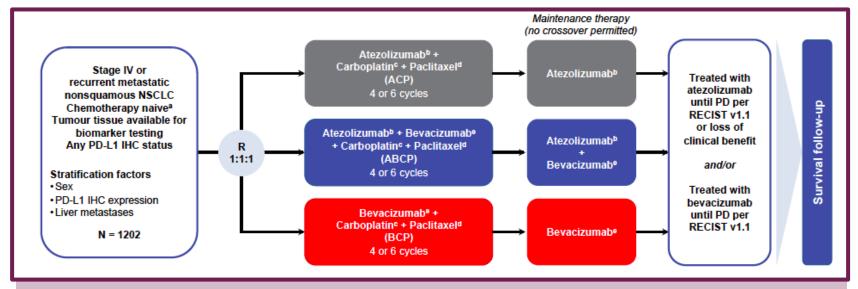
Conclusions:

- Updated PFS results show continued PFS benefit with atezo + CnP vs CnP in the ITT population
 - The PFS HR for atezo + CnP vs CnP in the ITT population was 0.74 (median PFS, 6.5 vs 5.6 months, respectively)
 - PFS benefit was observed across geographic subgroups
- At the second interim OS analysis in IMpower131, OS did not cross the efficacy boundary and continues to be followed
 - The OS HR for atezo + CnP vs CnP in the ITT population was 0.92 (median OS, 14.6 vs 14.3 months, respectively)
 - Nearly 43% of patients in the CnP arm received cancer immunotherapy in subsequent treatment lines, which may have contributed to the notable median OS of > 14 months in these patients with metastatic squamous NSCLC. Further analyses are required to investigate this hypothesis
- The safety of atezo + CnP was manageable and consistent with the profile for each agent; no new or unexpected signals were identified
- Final analyses are expected to be presented in 2019





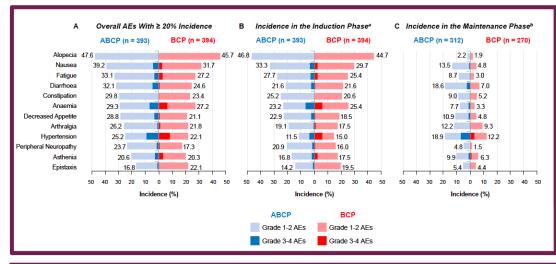
STUDY DESIGN



- IMpower150 is a randomized, open-label, international, Phase III study in 1L in patients with metastatic nonsquamous NSCLC designed to evaluated the efficacy and safety of ABCP vs BCP
- In this analysis, the safety and tolerability of the ABCP and BCP treatment regimens in the safety-evaluable population by treatment phase (induction vs maintenance) are presented







Most common all-causes Aes by phase of treatment

The majority of the most common Aes reported across treatment phases were grade 1-2 for both treatment arms

	ABCP			ВСР		
Incidence, n (%)	Induction ^a (n = 393)	Maintenance ^b (n = 312)	Overall (n = 393)	Induction ^a (n = 394)	Maintenance ^b (n = 270)	Overall (n = 394)
Patients with ≥ 1 AE	380 (96.7)	289 (92.6)	386 (98.2)	389 (98.7)	219 (81.1)	390 (99.0)
Grade 3-4	211 (53.7)	115 (36.9)	250 (63.6)	204 (51.8)	61 (22.6)	230 (58.4)
Grade 5	15 (3.8)	8 (2.6)	24 (6.1)	11 (2.8)	9 (3.3)	21 (5.3)
Patients with ≥ 1 TRAE	362 (92.1)	221 (70.8)	370 (94.1)	375 (95.2)	147 (54.4)	377 (95.7)
Grade 3-4	191 (48.6)	66 (21.2)	223 (56.7)	176 (44.7)	30 (11.1)	191 (48.5)
Grade 5	10 (2.5)	1 (0.3)	11 (2.8)	5 (1.3)	3 (1.1)	9 (2.3)
Patients with ≥ 1 SAE	112 (28.5)	82 (26.3)	174 (44.3)	104 (26.4)	35 (13.0)	135 (34.3)
Patients with ≥ 1 AESI ^c	129 (32.8)	118 (37.8)	206 (52.4)	84 (21.3)	36 (13.3)	112 (28.4)
Grade 3-4	29 (7.4)	20 (6.4)	49 (12.5)	12 (3.0)	1 (0.4)	13 (3.3)

AE incidence by phase of treatment

The rates of grade 3-4 AEs, TRAEs, and SAEs were lower in the maintenance vs induction phases for all treatments arms





Reck M. IMpower150 Safety Analysis http://bit.ly/20ex61e



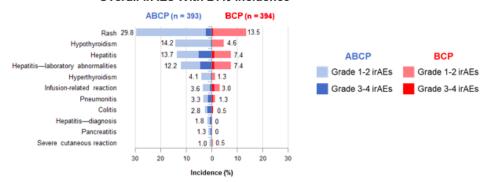
Most Common irAEs, Onset and Duration

- Most irAEs in the ABCP arm appeared within the first 3 to 4 months of treatment and persisted for approximately 2 months
- Incidences of irAEs were similar across treatment phases for ABCP, with the exception of hypothyroidism, which had greater incidence in the maintenance phase vs the induction phase of treatment

Time to Onset, Duration, and Corticosteroid Use for the Most Common irAEs in the ABCP Arm

irAEs with ≥1% overall incidence in the ABCP arm (n =393)ª	Median time to onset (range), mo	Median duration (range), mo	Corticosteroids used, n (%)
Hypothyroidism	5.9 (1.4-15.4)	NE (0.3-28.3 ^b)	4 (1.0)
Hepatitis – laboratory abnormalities	2.6 (0.2-17.3)	1.2 (0.1-16.3 ^b)	18 (4.6)
Hyperthyroidism	3.2 (1.4-7.6)	3.2 (0.7-20.9b)	2 (0.5)
Pneumonitis	3.6 (0.3-17.2)	1.3 (0.2-10.6b)	11 (2.8)
Colitis	3.4 (0.3-16.3)	2.0 (0.8-23.1b)	8 (2.0)
Hepatitis – diagnosis	3.3 (0.4-6.8)	2.2 (0.1-16.5b)	4 (1.0)
Pancreatitis	4.4 (0.7-9.4)	2.3 (0.4b-8.3b)	3 (0.8)

Overall irAEs With ≥1% Incidence







- This analysis confirms the relative safety of the ABCP 4-drug regimen compared with the BCP 3-drug regimen, whilst significantly prolonging PFS and OS and maintaining patient-reported HRQOL, in the randomised phase III IMpower150 study
- The addition of Atezolizumab to BCP did not lead to premature withdrawal from chemotherapy compared with the BCP arm; therefore, the results support the use of this 4-drug ABCP treatment regimen for patients with 1L NSCLC
- The safety of the ABCP regimen appears to be tolerable and manageable compared with BCP, with minimal increase in the incidence of all-cause AEs, TRAEs and SEAs, despite longer treatment exposure

Iniciativa científica de:

Grupo Español de Cáncer de Pulmón
Spanish Lung Cancer Group