

INMUNOTERAPIA II

Dra. Virginia Calvo



Hussoin ³ Alossandro Morahito ⁴ Achim Ditte



congress

UNICH ESVO

IMpower130: efficacy and safety from a randomised phase 3 study of carboplatin and nab-paclitaxel with or without atezolizumab in 1L advanced non-squamous NSCLC

IMpower130 study design

MaCla



ITT-WT population: randomised patients excluding thos

20% Pemetrexed switch maintenance

- Key secondary endpoints: OS and PFS (ITT population and by PD-L1 expression), ORR and safety
 - ITT population could be formally tested for OS/PFS if ITT-WT OS was positive





















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Benefit in this subgroup not confirmed

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OS and PFS benefits were observed across all PD-L1 subgroups

PD-L1-low PD-L1-high PD-L1-negative TC3 or IC3 TC0 and IC0 TC1/2 or IC1/2 100 100 100 90 90-90-80-70-80-80-70-70-(%) SO (%) SO (%) SO 60-50-50 401 40[.] 30 30 30 20 12 15 18 21 24 27 30 Time (months) 10 12 14 16 18 20 22 24 26 28 30 12 15 18 21 24 27 Time (months) 30 Time (months) 92 86 70 54 43 32 17 14 5 42 39 30 22 13 10 5 2 1 Atezo + CnP Atezo + CnP Atezo + CnP CnP CnP CnP (n=88) (n=42) (n=128) (n=65) (n=235) (n=121) Median OS. 17.3 16.9 15.9 12.0 23.7 15.2 mo (95% CI) (14.78, N/A) (10.94, N/A) (18.63, N/A) (12.32, 25.63) (12.88, 19.15) (8.97, 17.71) 0.81 (0.61, 1.08) HR (95% CI) 0.84 (0.51, 1.39) 0.70 (0.45, 1.08)





Safety summary		MUNICH 2018
	Atezo + CnP (n=473)	<u>CnP</u> (n=232)
Treatment duration, median (range), mo Nab-paclitaxel Carboplatin Atezolizumab Pemetrexed	2.8 (0–7) 2.3 (0–6) 6.9 (0–32)	2.7 (0–5) 2.3 (0–5) – 3.5 (0–16)
All-cause AE, n (%)	471 (99.6%)	230 (99.1%)
Grade 3–4	381 (80.5%)	164 (70.7%)
Grade 5	25 (5.3%)	13 (5.6%)
Treatment-related AE, n (%)ª	455 (96.2%)	215 (92.7%)
Grade 3–4	346 (73.2%)	140 (60.3%)
Grade 5	8 (1.7%)	1 (0.4%)
Serious AE, n (%)	240 (50.7%)	88 (37.9%)
Treatment-related serious AEª	112 (23.7%)	30 (12.9%)
<u>Treatment-related AEs</u> of special interest, n (%)	168 (35.5%)	34 (14.7%)
Grade 3–4	24 (5.1%)	6 (2.6%)
Grade 5	3 (0.6%)	0
AE leading to any treatment withdrawal, n (%)	125 (26.4%)	51 (22.0%)
AE leading to any dose interruption or modification, n (%)	402 (85.0%)	186 (80.2%)

Atezo + CnP had a safety profile consistent with AEs associated with single-agent therapy No new safety signals were identified





CONCLUSIONS

- IMpower130 met its co-primary PFS and OS endpoints and demonstrated a statistically significant and clinically meaningful benefit of 4.7 months' OS (and 1.5 months' PFS) for atezo plus chemotherapy in the ITT-WT population, compared with chemotherapy alone
 - OS and PFS benefits were observed across all PD-L1 subgroups
 - Outcomes in patients with EGFR or ALK genomic alterations suggest treatment benefit was mostly driven by the ITT-WT population
- Atezo plus chemotherapy had a safety profile consistent with AEs associated with single-agent therapy; no new safety signals were identified
- The IMpower130 results support atezo plus chemotherapy as a treatment option for patients with advanced non-squamous NSCLC, regardless of PD-L1 status







- Secondary endpoints: INV-assessed ORR and DOR, PRO and safety measures
- Exploratory analyses: clinical and biomarker^b subgroup analyses







Clear improvement of PFS and OS adding Atezolizumab







PFS in key p	MUNICH 2018					
Subgroup	<u>n (%)</u>		HR (95% CI) ^a		Median PFS, mo	
				APP	PP	
≥ 65 years	258 (45)	⊢	0.55 (0.42, 0.73)	8.4	5.6	
< 65 years	320 (55)	⊢	0.63 (0.49, 0.80)	6.9	4.4	
Asian	136 (24)	⊢	0.42 (0.28, 0.63)	10.2	5.3	
Non-Asian	442 (76)	⊢	0.65 (0.53, 0.81)	6.9	5.0	
Never smoker	67 (12)	↓	0.49 (0.28, 0.87)	8.6	5.5	
Current or former smoker	511 (88)	⊢♦(0.61 (0.50, 0.74)	7.5	5.1	
No liver metastases	505 (87)	⊢	0.56 (0.46, 0.69)	8.4	5.5	
Liver metastases	73 (13)	↓↓	0.77 (0.47, 1.25)	4.4	4.0	
ITT population	578 (100)	⊢_ ♦	0.60 (0.49, 0.72)	7.6	5.2	
	0,2	, <u> </u>	1.7			
APP, atezolizumab + carboplatin/cispla + pemetrexed. ^a Stratified HR for ITT; r	atin + pemetrexed; PP, unstratified for all other	carboplatin/cisplatin subgroups.	PP			





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CONCLUSIONS

- The addition of atezolizumab to carboplatin/cisplatin and pemetrexed resulted in statistical and clinically relevant improvement in PFS in the ITT population
- PFS improvements were observed in key clinical subgroups, including patients who were from Asia, never smokers, older and without liver metastases at baseline
- Although the efficacy boundary has not been crossed for OS, numerical improvements were observed in the ITT population (mOS improvement of 4.5 months) and in key subgroups
- Further analyses may provide insights into the causes underlying these results to improve knowledge and future treatment options for patients



















PFS and OS improvement were seen with increasing bTMB cutoffs





CONCLUSIONS

- B-F1RST is the first prospective evaluation of bTMB as a predictive biomarker for patients with NSCLC receiving 1L atezolizumab monotherapy
- These primary data suggest that a bTMB cutoff score of ≥ 16 showed a numerical improvement in clinical outcomes in patients with NSCLC treated with atezolizumab monotherapy:
 - Median PFS in bTMB high vs low subgroups, 4.6 vs 3.7 months (HR, 0.66 [90% CI: 0.42, 1.02]; P = 0.12)
 - Confirmed ORR of 28.6% and 4.4% (P = 0.0002) was observed in the bTMB high (≥ 16) and low (< 16) subgroups, respectively
 - Median OS in the bTMB high vs low subgroups was NE vs 13.1 months (HR, 0.77 [90% CI, 0.41-1.43]; P = 0.48) and will continue to be followed
- Atezolizumab was well tolerated, and no new safety signals were observed
- bTMB is being validated in a prospective, randomised Phase III study





ARCTIC study design: a Phase 3, global, randomised, open-label, multicentre study





13780, ARCTIC: Durvalumab + Tremelimumab and Durvalumab monotherapy vs SoC in \geq 3L advanced NSCLC treatment





PD-L1 TC ≥25%: Durvalumab monotherapy resulted in a clinically meaningful improvement in OS vs SoC with 49.3% vs 31.3% of patients alive at 1 year



PD-L1 TC <25%: Durvalumab + Tremelimumab demonstrated a non-significant Iniciativa científica de: numerical improvement in OS vs SoC with 49.5% vs 38.8% of patients alive at 1 year



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CONCLUSIONS

- ARCTIC demonstrated activity with both Durvalumab and Durvalumab + Tremelimumab in a heavily pretreated patient population with advanced/metastatic NSCLC
- Durvalumab and Tremelimumab had an acceptable toxicity profile
- Incorporation of TMB along with PD-L1 in the assessment of benefit may be useful
- Await Phase 3 MYSTIC OS data

