

Mesotelioma y SCLC

Juan Coves Sarto

H. Universitario Son Llàtzer



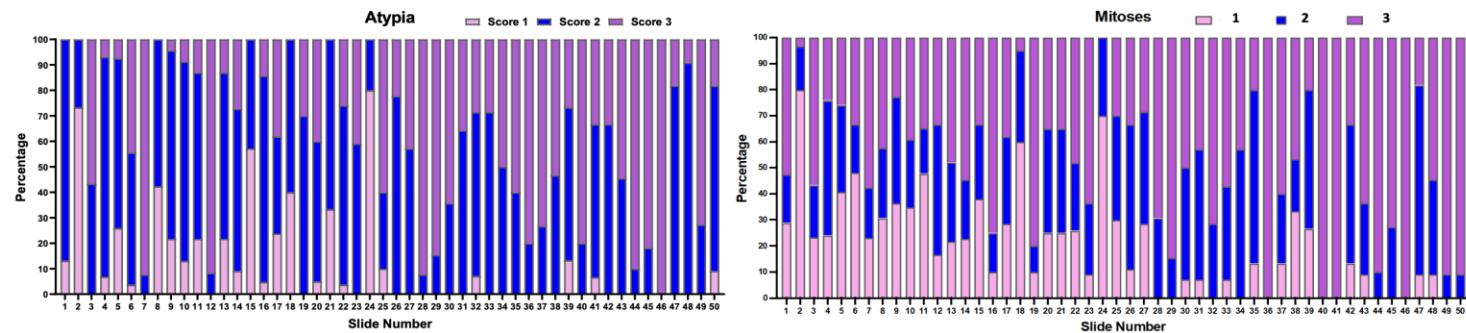


Variance in Pathologists' Grading of Pleural Mesothelioma

Sarita Prabhakaran
Flinders University
Australia

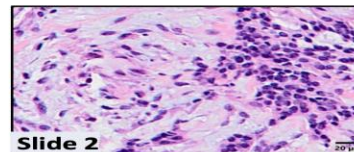
Variances between pathologists grading of 50 epithelioid mesothelioma					
Histological scoring	Method	Cases	Kappa	Confidence Interval	p value
Nuclear grade	Complete case analysis	14	0.419	0.253-0.584	<0.001
	Multiple imputation	50	0.431	0.343-0.518	<0.001
Atypia	Complete case analysis	21	0.239	0.187-0.291	<0.001
	Multiple imputation	50	0.299	0.263-0.335	<0.001
Mitotic count	Complete case analysis	25	0.289	0.212-0.367	<0.001
	Multiple imputation	50	0.141	0.089-0.192	<0.001
Necrosis	Complete case analysis	14	0.345	0.180-0.511	<0.001
	Multiple imputation	50	0.206	0.119-0.294	<0.001
Myxoid stroma	Complete case analysis	21	0.539	0.468-0.610	<0.001
	Multiple imputation	50	0.406	0.360-0.452	<0.001

Results of scores on nuclear atypia and mitotic counts

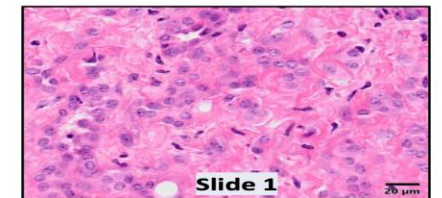


Possible explanations of our findings/Limitations

- Use of virtual slides
- Heterogenous morphology
- Difficulty choosing hotspots in tumours
- Format of survey- technical difficulties



Myxoid stroma



Low grade

Full concordance when morphology is typical

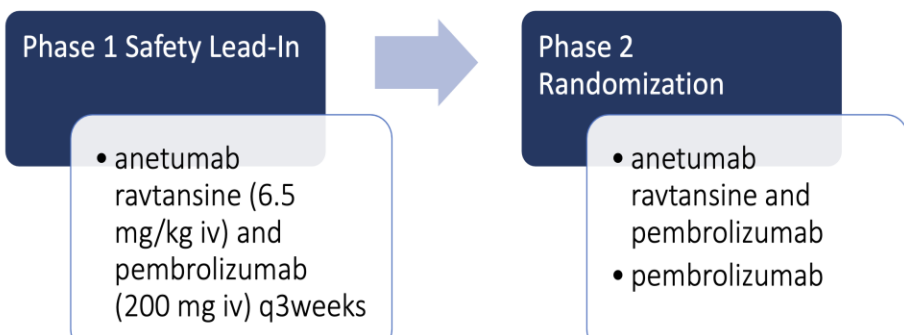




Phase 1/2 Randomized Trial of Anetumab Ravnansine and Pembrolizumab Compared to Pembrolizumab for Pleural Mesothelioma

Aaron Mansfield

Study Design



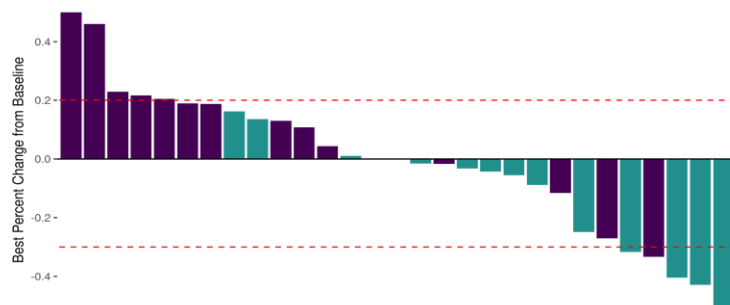
Phase 1

- No prior immunotherapy
- No significant comorbidities or auto-immune conditions
- Epithelioid mesothelioma
- Measurable disease not required

Phase 2

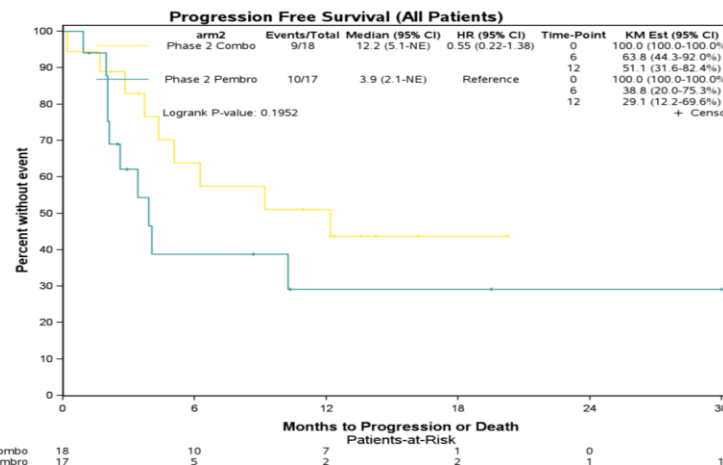
- No prior immunotherapy
- No significant comorbidities or auto-immune conditions
- $\geq 30\%$ mesothelin expression by tumor cells
- Measurable disease

Phase 2 – Best change from baseline



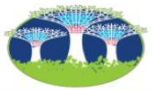
Arm	PR	SD
Combo (n=18)	2	9
Pembro (n=17)	1	5
No statistical difference in ORR		

Arm
 Phase 2 Pembro
 Phase 2 Combo



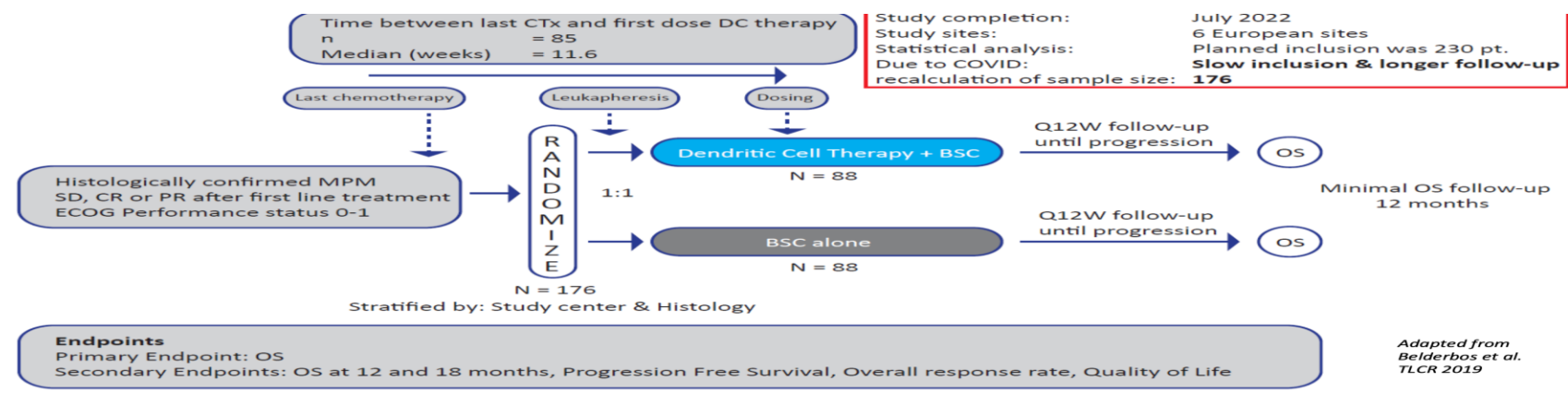
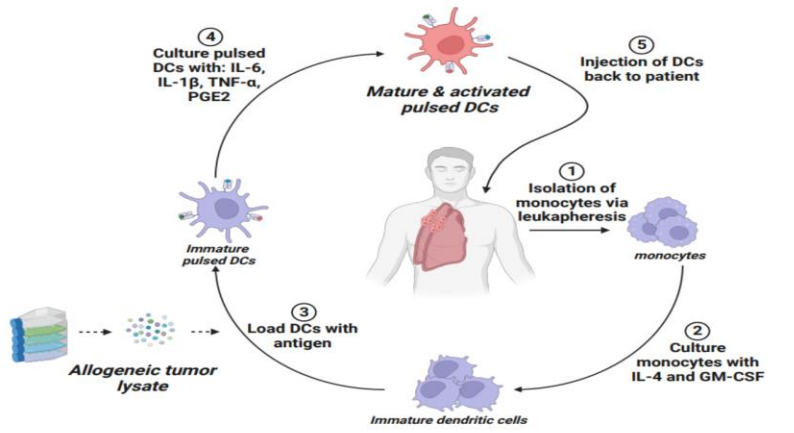
Group 1: Anetumab ravnansine and Pembrolizumab
 Group 2: Pembrolizumab

Hazard ratio: 0.55
 P value = 0.1952



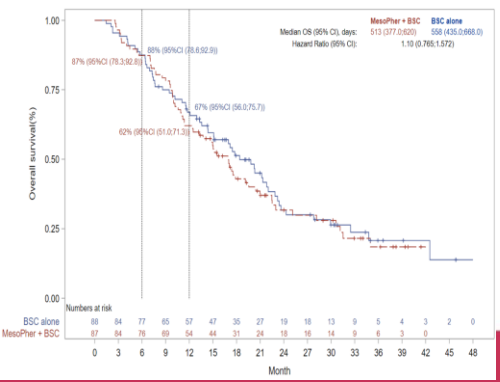
A multicenter, randomized, phase II/III study of dendritic cells (DC) loaded with allogeneic tumor cell lysate in subjects with mesothelioma as maintenance therapy after chemotherapy: DENdritic cell Immunotherapy for Mesothelioma (DENIM) trial

J.G.J.V. Aerts, MD PhD
Erasmus MC University Hospital Rotterdam the Netherlands
On behalf of the DENIM study group



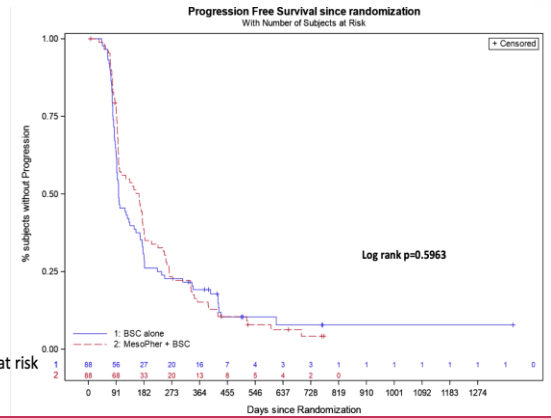
Overall Survival (Intention to treat analysis)

	DC + BSC (n=88)	BSC alone (n=88)
Median OS (95% CI), months	16.9 (12.4; 20.4)	18.3 (14.3; 21.9)



Progression Free Survival (intention to treat analysis)

	DC+ BSC (n=88)	BSC alone (n=88)
Median PFS (95% CI), days	166 (99-178)	99 (93-136)



Adapted from Belderbos et al. TLCR 2019



The IASLC Pleural Mesothelioma Staging Project: Updated Modeling of Prognostic Factors in Pleural Mesothelioma

Andrea S. Wolf, MD, MPH

New York Mesothelioma Program

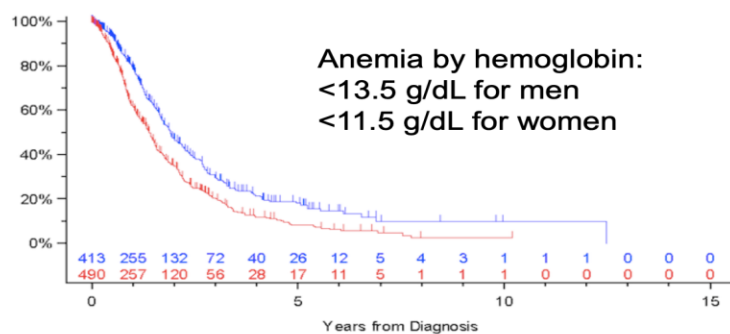
The Icahn School of Medicine at Mount Sinai

United States of America



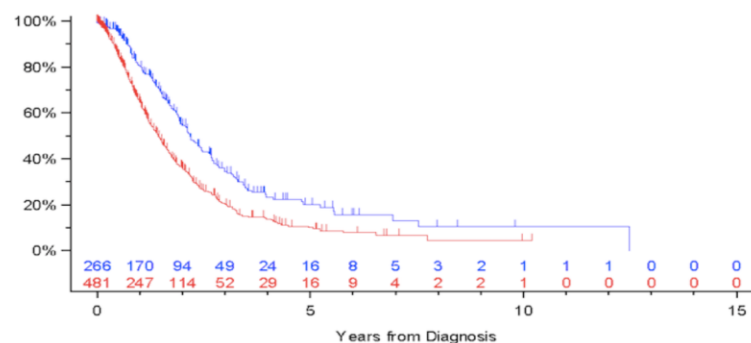
Results: Univariate analysis overall survival

Overall Survival by Anemia



	Deaths / N	Median in Years	3-Year Estimate
No Anemia	247 / 413	1.9 (1.7, 2.2)	30% (24, 35)
Anemia	358 / 490	1.4 (1.2, 1.5)	20% (16, 24)
Log-rank p-value < .0001			

Overall Survival by Serum Mesothelin



	Deaths / N	Median in Years	3-Year Estimate
Serum Mesothelin < 6.7 nmol/L	149 / 266	2.2 (1.9, 2.6)	34% (27, 42)
Serum Mesothelin >= 6.7 nmol/L	319 / 481	1.4 (1.3, 1.6)	20% (16, 25)
Log-rank p-value < .0001			

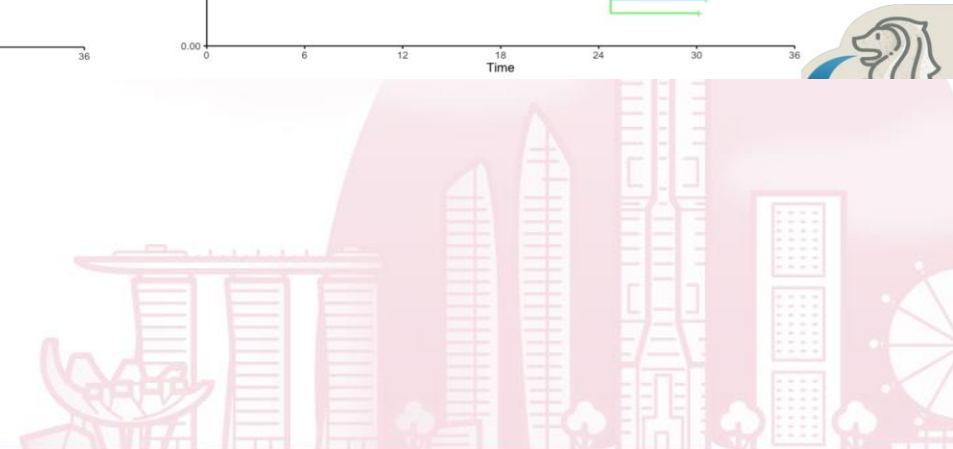
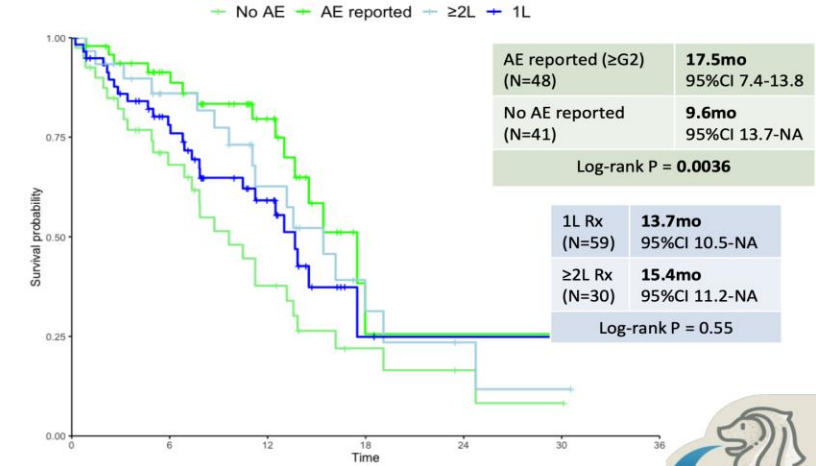
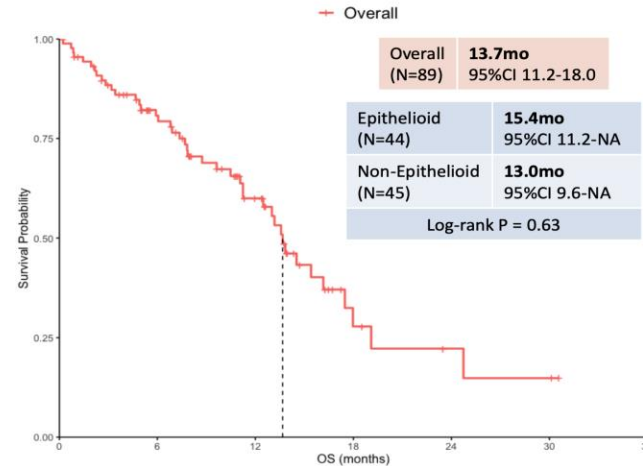




RIOMeso - Real World Outcomes of Immunotherapy (IO) for Pleural MESOthelioma in Australia

Results - Survival

Table 1 – Patient Demographics		CM 743 - IO
No. of patients	89	303
Age, median (range)	73 (19 - 89)	69
Male	70 (83%)	77%
ECOG ≤1	70 (91%)	100%
Current / past smoking	47 (53%)	57%
Known asbestos exposure	66 (73%)	-
Histology		
Epithelioid	49%	76%
Non-epithelioid	51%	24%
Sarcomatoid	17%	12%
Biphasic	16%	13%
Other / Unavailable	18%	-
Treatment line		
1L	59 (66%)	100%
≥2L	30 (34%)	-

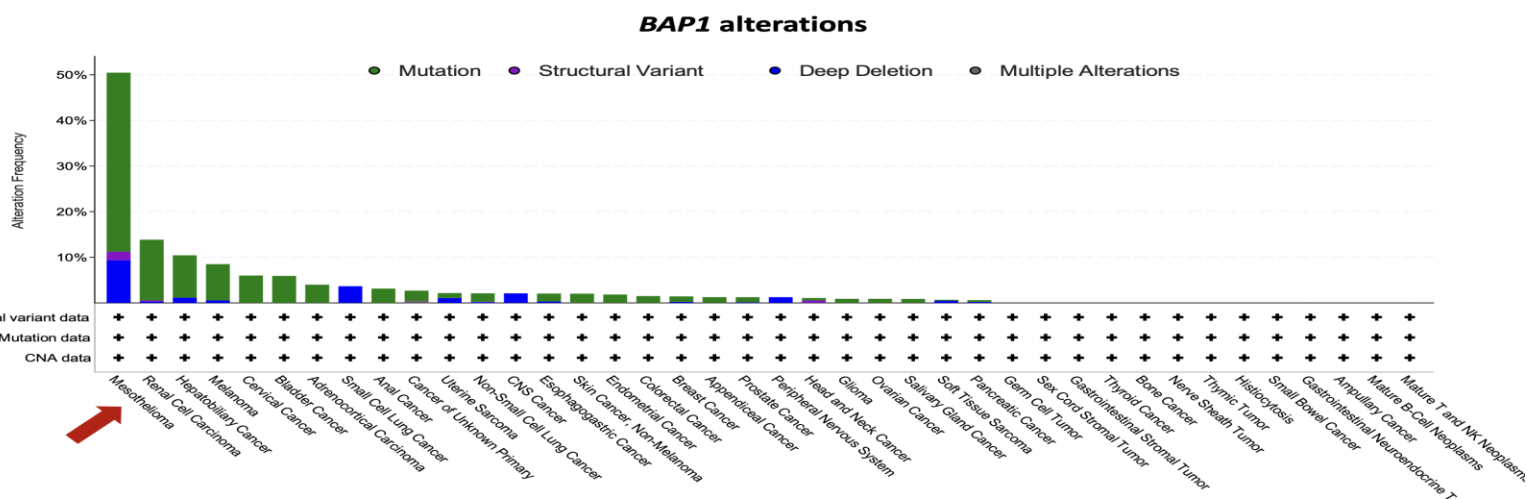




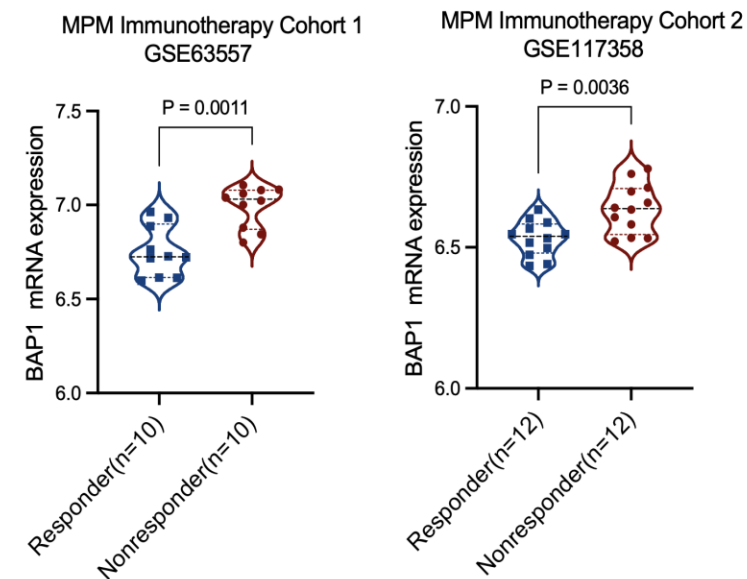
***BAP1* Deficiency Inflames TIME: A Promising Biomarker for Enhanced Immunotherapy in Malignant Pleural Mesothelioma**

Yongqian Shu

Genomic feature: tumor suppressor gene *BAP1* loss in MPM



B



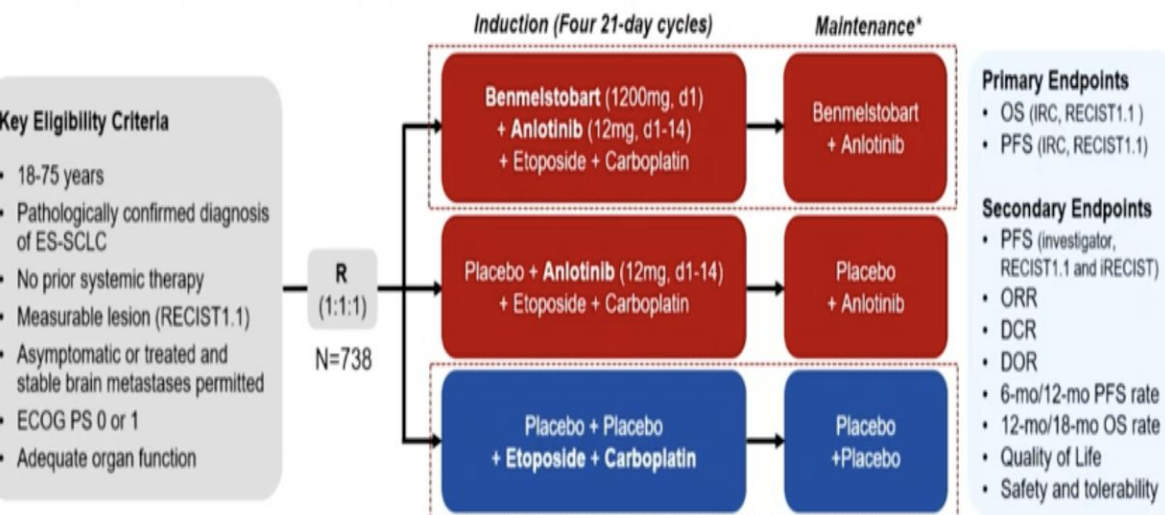
***BAP1*-loss MPM tends to respond better to immunotherapy**

Benmelstobart with Anlotinib plus Chemotherapy as First-line Therapy for ES-SCLC: A Randomized, Double-blind, Phase III Trial (ETER701)

Ying Cheng¹, R. Yang², J. Chen³, W. Zhang⁴, C. Xie⁵, Q. Hu⁶, N. Zhou⁷, C. Huang⁸, S. Wei⁹, H. Sun¹⁰, X. Li¹¹, Y. Yu¹², J. Lai¹³, H. Yang¹⁴, H. Fang¹⁵, H. Chen¹⁶, P. Zhang¹⁷, K. Gu¹⁸, Q. Wang¹⁹, J. Shi²⁰, T. Yi²¹, X. Xu²², X. Ye²³, D. Wang²⁴, C. Xie²⁵, C. Liu²⁶, Y. Zheng²⁷, D. Lin²⁸, W. Zhuang²⁹, P. Lu³⁰, G. Yu³¹, J. Li³², Y. Gu³³, B. Li³⁴, R. Wu³⁵, O. Jiang³⁶, Z. Wang³⁷, G. Wu³⁸, H. Lin³⁹, D. Zhong⁴⁰, Y. Xu⁴¹, Y. Shu⁴², D. Wu⁴³, X. Chen⁴⁴, J. Wang⁴⁵, M. Wang⁴⁶

Study Design

- A multicenter, placebo-controlled, randomized phase III trial in first-line ES-SCLC.

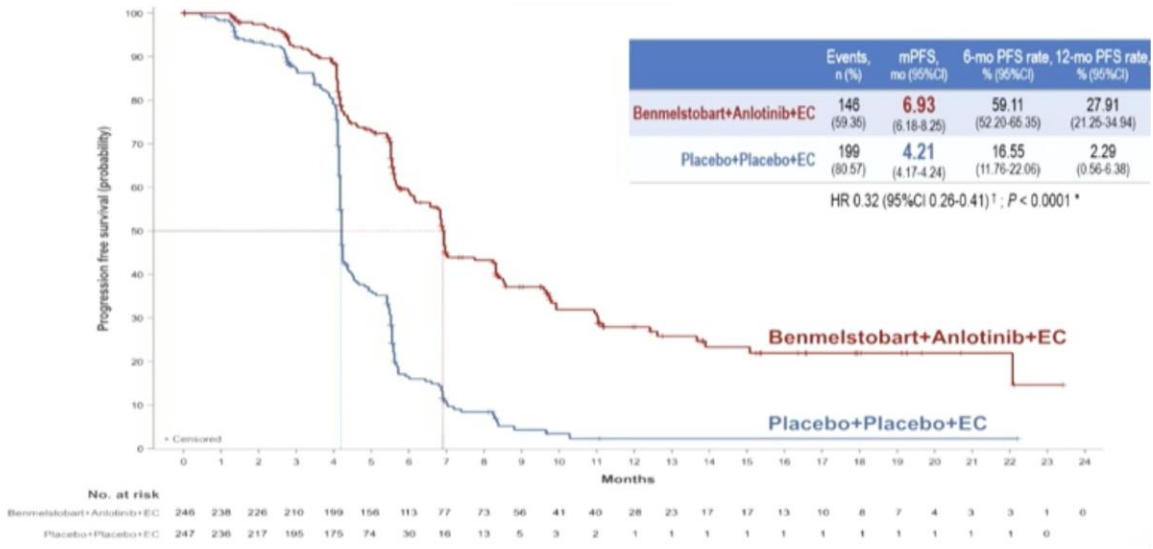


Baseline Characteristics (ITT Population)

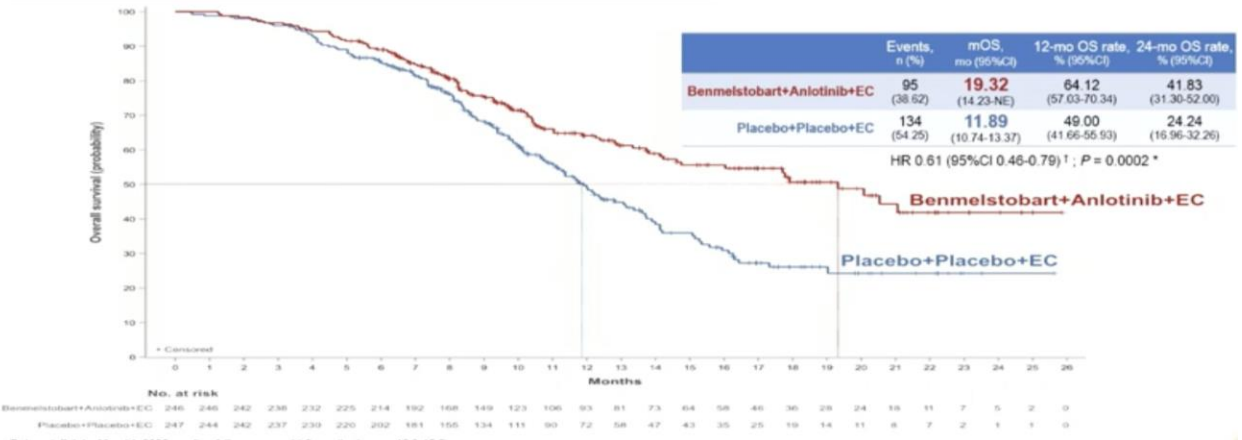
	Benmelstobart+Anlotinib+EC (N=246)	Placebo + Placebo + EC (N=247)
Median Age (range), years	62.0 (36-75)	63.0 (30-75)
Gender, n (%)		
Male	209 (85.0)	207 (83.8)
ECOG PS, n (%)		
0 / 1	47 (19.1) / 199 (80.9)	48 (19.4) / 199 (80.6)
Smoking status, n (%)		
Never	59 (24.0)	54 (21.9)
Former / Current	154 (62.6) / 33 (13.4)	158 (64.0) / 35 (14.2)
Clinical stage*, n (%)		
Limited-stage	1 (0.4)	7 (2.8)
Extensive-stage	245 (99.6)	240 (97.2)
Disease stage* (AJCC 8th), n (%)		
II	0 (0.0)	1 (0.4) ^a
III	30 (12.2)	21 (8.5)
IV	216 (87.8)	225 (91.1)
Brain / Liver / Bone metastases, n (%)	25 (10.2) / 79 (32.1) / 69 (28.0)	26 (10.5) / 79 (32.0) / 69 (27.9)

^a Stratified by: ECOG PS (0/1); brain metastases (Y/N); liver metastases (Y/N).

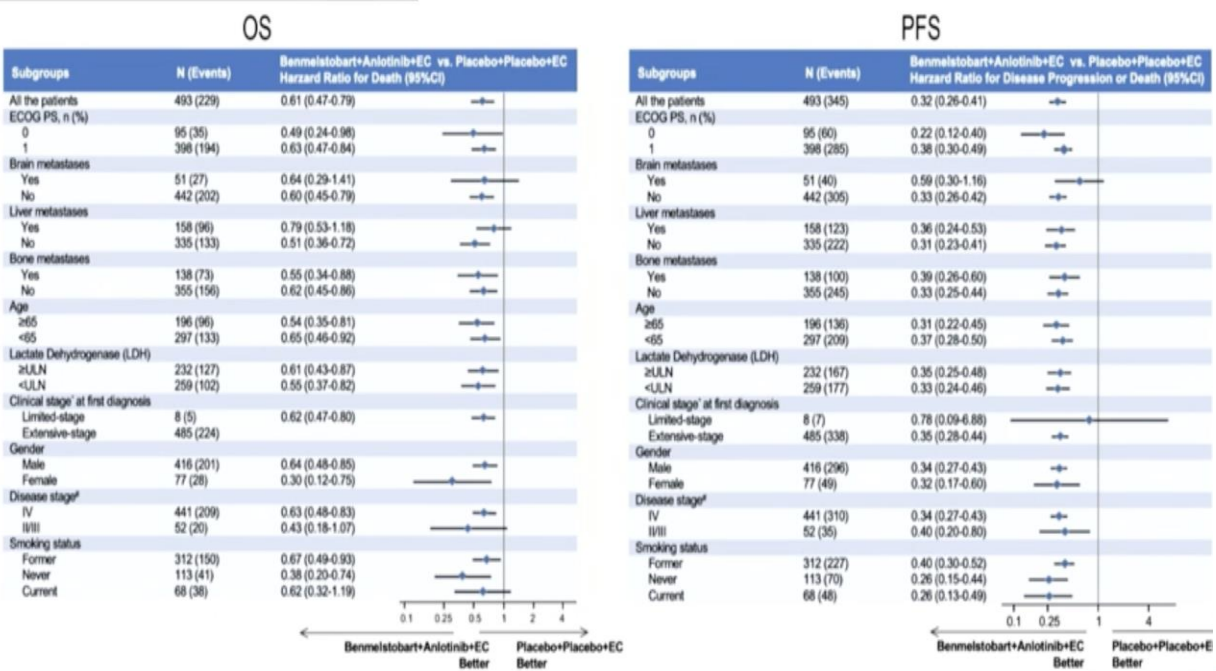
Primary Endpoint: PFS (ITT Population)



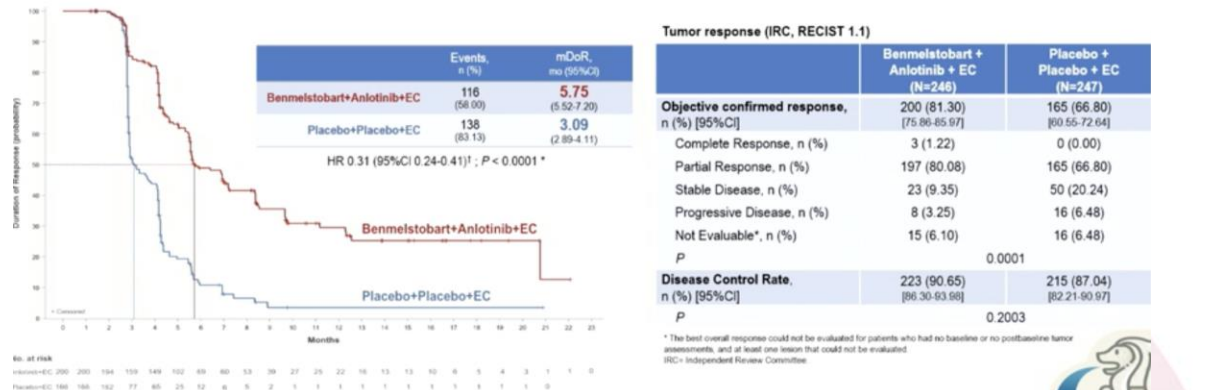
Primary Endpoint: OS (ITT Population)



PFS and OS in Subgroups



Secondary Endpoints: DoR, ORR, DCR (ITT Population)



Tumor response (IRC, RECIST 1.1)

	Benmelstobart + Anlotinib + EC (N=246)	Placebo + Placebo + EC (N=247)
Objective confirmed response, n (%) [95%CI]	200 (81.30) [75.96-85.97]	165 (66.80) [60.55-72.64]
Complete Response, n (%)	3 (1.22)	0 (0.00)
Partial Response, n (%)	197 (80.08)	165 (66.80)
Stable Disease, n (%)	23 (9.35)	50 (20.24)
Progressive Disease, n (%)	8 (3.25)	16 (6.48)
Not Evaluable†, n (%)	15 (6.10)	16 (6.48)
P		0.0001
Disease Control Rate, n (%) [95%CI]	223 (90.65) [86.30-93.68]	215 (87.04) [82.21-90.97]
P		0.2003

* The best overall response could not be evaluated for patients who had no baseline or no postbaseline tumor assessments, and at least one lesion that could not be evaluated.
IRC = Independent Review Committee.

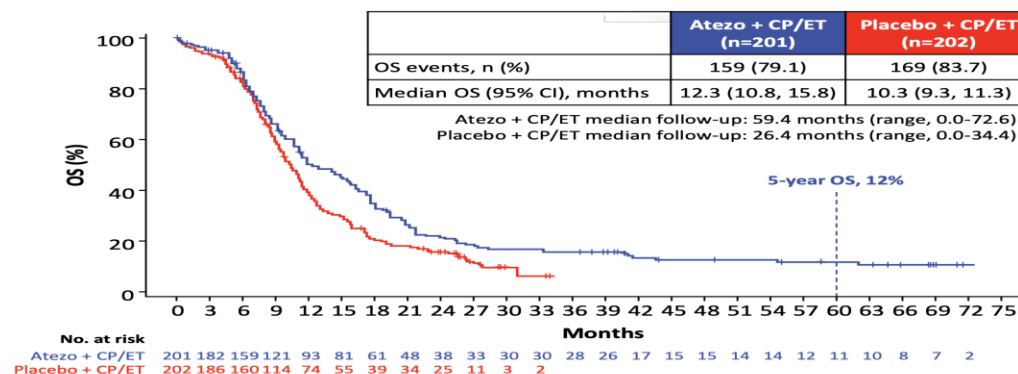
Safety Summary	Benmelstobart + Anlotinib + EC (N=246)		Placebo + Placebo + EC (N=246)†		TRAEs	Benmelstobart + Anlotinib + EC (N=246)		Placebo + Placebo + EC (N=246)	
	Any grade	Grade ≥ 3	Any grade	Grade ≥ 3		Any grade	Grade ≥ 3	Any grade	Grade ≥ 3
Any TRAEs, n (%)	246 (100.0)	229 (93.1)	245 (99.6)	214 (87.0)	Any TRAEs, n (%)	246 (100.0)	229 (93.1)	245 (99.6)	214 (87.0)
Leading to any dose reduction or interruption	124 (50.4)	83 (33.7)	57 (23.2)	39 (15.9)	Neutrophil count decreased	224 (91.1)	171 (69.5)	223 (90.7)	169 (68.7)
Leading to any discontinuation	21 (8.5)	14 (5.7)	7 (2.8)	5 (2.0)	Platelet count decreased	219 (89.0)	122 (49.6)	201 (81.7)	88 (35.8)
Leading to death	11 (4.5)	11 (4.5)	4 (1.6)	4 (1.6)	White-cell count decreased	223 (90.7)	94 (38.2)	225 (91.5)	85 (34.6)
Any irAEs, n (%)	105 (42.7)	41 (16.7)	47 (19.1)	17 (6.9)	Anemia	192 (78.0)	59 (24.0)	207 (84.2)	58 (23.6)
Leading to any dose reduction	16 (6.5)	13 (5.3)	5 (2.0)	3 (1.2)	Nausea	99 (40.2)	1 (0.4)	108 (43.9)	0 (0.0)
Leading to any discontinuation	20 (8.1)	15 (6.1)	4 (1.6)	3 (1.2)	Hypertension	77 (31.3)	38 (15.5)	18 (7.3)	4 (1.6)
Leading to death	5 (2.0)	5 (2.0)	1 (0.4)	1 (0.4)	Hypothyroidism	75 (30.5)	1 (0.4)	13 (5.3)	0 (0.0)
Any SAEs, n (%)	135 (54.9)	115 (46.7)	101 (41.1)	84 (34.1)	ALT increased	68 (27.6)	2 (0.9)	73 (29.7)	5 (2.0)
Benmelstobart-related ≥ Grade 3 SAEs	/	51 (20.7)	/	22 (8.9)	Hypertriglyceridemia	87 (27.2)	8 (3.3)	46 (18.7)	2 (0.8)
Anlotinib-related ≥ Grade 3 SAEs	/	56 (22.8)	/	33 (13.4)	AST increased	66 (26.8)	3 (1.2)	60 (24.4)	1 (0.4)
Chemotherapy-related ≥ Grade 3 SAEs	/	92 (37.4)	/	63 (25.6)	Hypoalbuminemia	80 (24.4)	0 (0.0)	37 (15.0)	1 (0.4)
					Proteinuria	59 (24.0)	2 (0.8)	28 (11.4)	1 (0.4)
					Hypercholesterolemia	48 (19.5)	1 (0.4)	24 (9.8)	0 (0.0)
					Weight loss	45 (18.3)	3 (1.2)	17 (6.9)	1 (0.4)
					TSH increased	33 (13.4)	1 (0.4)	8 (3.3)	0 (0.0)
					Occult blood positive	29 (11.8)	0 (0.0)	17 (6.9)	2 (0.8)
					Lymphocyte count decreased	29 (11.8)	8 (3.3)	24 (9.8)	7 (2.9)
					Total bilirubin increased	29 (11.8)	2 (0.8)	17 (6.9)	2 (0.8)
					Palmar-plantar erythrodysesthesia syndrome	28 (11.4)	6 (2.4)	3 (1.2)	0 (0.0)
					γ-GT increased	27 (11.0)	4 (1.6)	28 (11.4)	3 (1.2)

Five-year survival in patients with ES-SCLC treated with atezolizumab in IMpower133: IMbrella A extension study results

Stephen V. Liu,¹ Rafal Dziadziuszko,² Shunichi Sugawara,³ Steven Kao,⁴ Maximilian Hochmair,⁵ Florian Huemer,⁶ Gilberto de Castro, Junior,⁷ Libor Havel,⁸ Reyes Bernabé Caro,⁹ György Losonczy,¹⁰ Jong-Seok Lee,¹¹ Dariusz Kowalski,¹² Zoran Andric,¹³ Raffaele Califano,¹⁴ Andrea Veatch,¹⁵ Gregory Gerstner,¹⁶ Marta Batus,¹⁷ Stefanie Morris,¹⁸ Monika Kaul,¹⁹ Madeena Siddiqui,¹⁹ Huafei Li,²⁰ Wei Zhang,¹⁹ Barzin Nabet,¹⁹ Martin Reck²¹

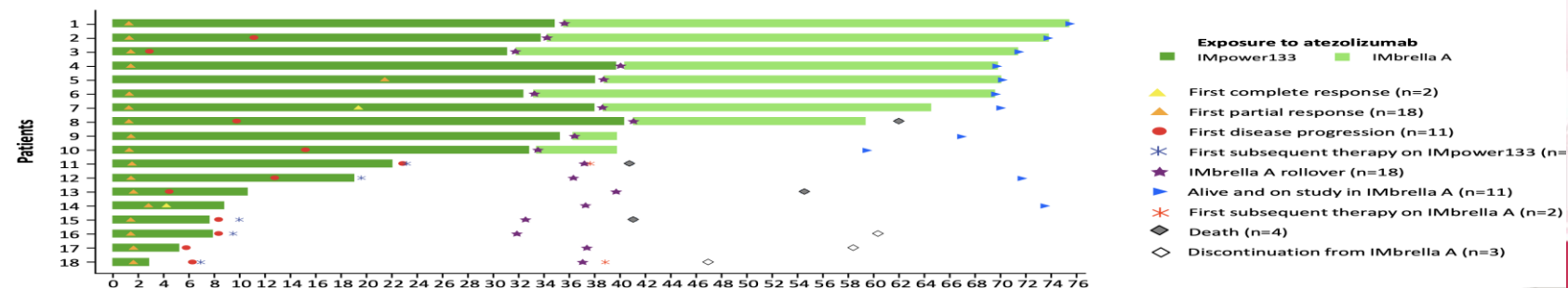
Characteristic	IMpower133 Atezo + CP/ET (n=201) ¹	IMbrella A (n=18) ^a
Median age (range), year	64.0 (28-90)	60.5 (46-80)
Age < 65 years, n (%)	111 (55.2)	14 (77.8)
Male, n (%)	129 (64.2)	11 (61.1)
White, n (%)	163 (81.1)	14 (77.8)
Asian, n (%)	33 (16.4)	3 (16.7)
Never used tobacco, n (%)	9 (4.5)	1 (5.6)
ECOG PS 0, n (%)	73 (36.3)	12 (66.7)
Brain metastases, n (%)	17 (8.5)	2 (11.1)
Liver metastases, n (%)	77 (38.3)	2 (11.1)

IMpower133 and IMbrella A: long-term OS



OS rate (95% CI), %	IMpower133 and IMbrella A Atezo + CP/ET (n=201)	IMpower133 only Placebo + CP/ET (n=202)
1-year	52% (45-59)	39% (32-46)
2-year	22% (16-28)	16% (11-21)
3-year	16% (11-21)	NE ^a
4-year	13% (8-18)	NE ^a
5-year	12% (7-17)	NE ^a

Patients from IMpower133 who enrolled in IMbrella A (n=18)

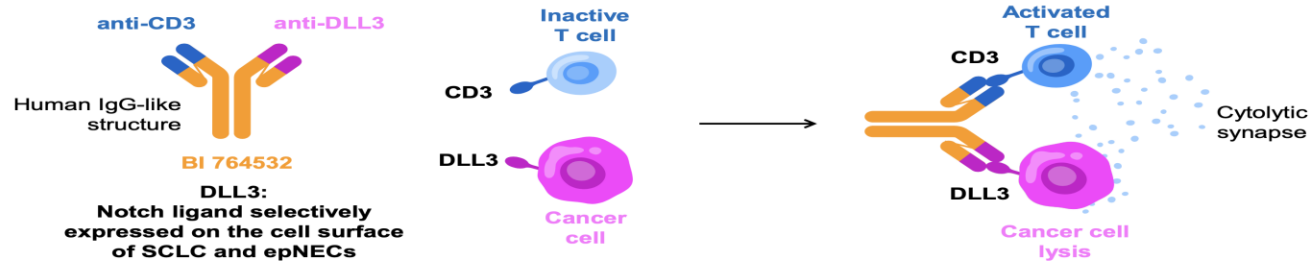




Phase I dose escalation trial of the DLL3/CD3 IgG-like T cell engager BI 764532 in patients with DLL3+ tumors: focus on SCLC and LCNEC

Martin Wermke¹, Yasutoshi Kuboki², Enriqueta Felip³, Olatunji B. Alese⁴, Daniel Morgensztern⁵, Cyrus Sayehli⁶, Edurne Arriola⁷, Miguel F. Sanmamed⁸, Zohra Oum' Hamed⁹, Eric Song¹⁰, Matus Studeny¹¹, Valentina Gambardella¹²

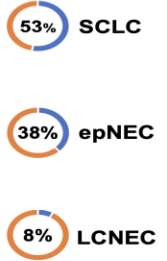
BI 764532: a novel DLL3-targeting T cell engager



Inclusion criteria and patient baseline characteristics

Key inclusion criteria	
Advanced SCLC, LCNEC, or epNEC	
DLL3-positive (archived tissue or in-study biopsy) according to central* review	
Failed/ineligible for available standard therapies (≥1 line of platinum-based chemotherapy)	
Adequate liver, bone marrow, and renal function	
ECOG PS 0/1	

As of March 26 2023	N=107†
Median age, years (range)	60.0 (32–79)
Male, n (%)	61 (57)
Prior lines of therapy, n (%)	
1–2	72 (67)
≥3	33 (31)
ECOG PS 0/1, n (%)	28 (26)/78 (73)
Prior PD-1/PD-L1, n (%)	52 (49)
Brain/liver metastases, n (%)	41 (38)/60 (56)



Most common all-cause AEs in pts with SCLC and LCNEC (>15% patients)

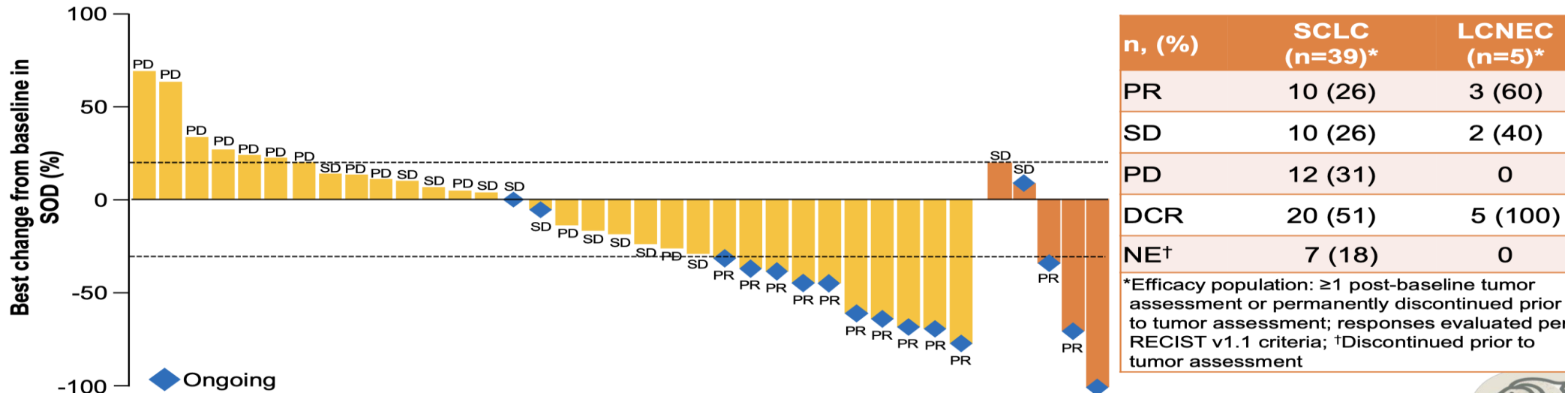
AE, n (%)	Patients (n=66)*		
	All grade	Grade 1–2	Grade 3–5
Number of pts with ≥1 AE	66 (100)	31 (47)	35 (53)
CRS	32 (48)	31 (47)	1 (2)
Asthenia	21 (32)	19 (29)	2 (3)
Dysgeusia	18 (27)	18 (27)	0
Constipation	18 (27)	18 (27)	0
Lymphocyte count decreased	16 (24)	4 (6)	12 (18)
Nausea	15 (23)	14 (21)	1 (2)
Fatigue	13 (20)	12 (18)	1 (2)
Malignant neoplasm progression†	13 (20)	0	11 (17)
Decreased appetite	12 (18)	10 (15)	2 (3)
AST increased	12 (18)	11 (17)	1 (2)
Headache	12 (18)	12 (18)	0
Pyrexia	11 (17)	11 (17)	0

*Ventana DLL3 (SP347) assay at the Roche CDx CAP/CLIA laboratory

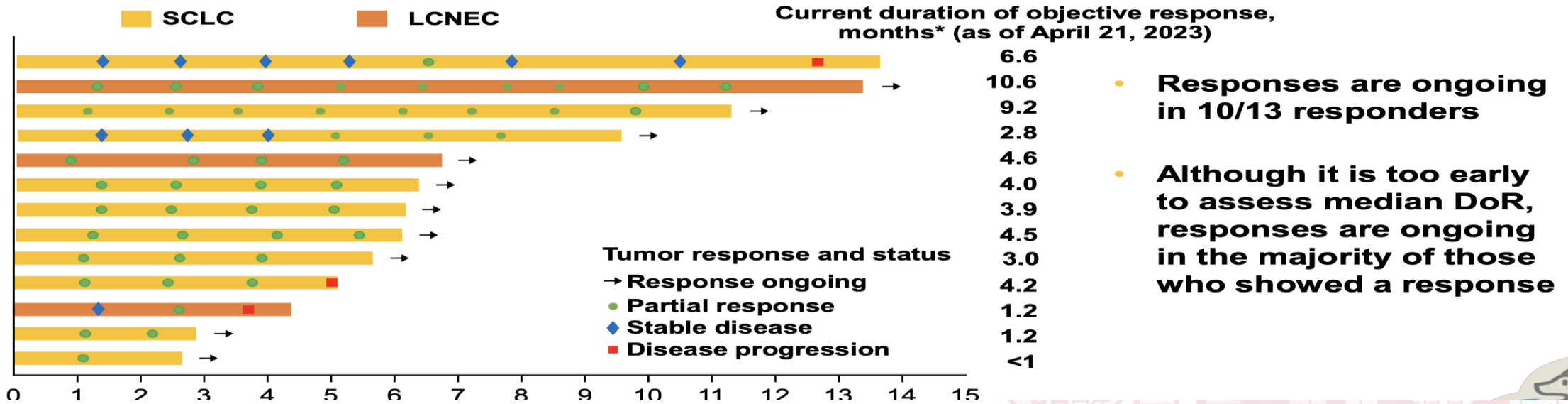
†Safety population: ≥1 dose of BI 764532



Efficacy in patients with SCLC and LCNEC (doses $\geq 90\mu\text{g}/\text{kg}$)



Response duration in patients with SCLC and LCNEC



First-line Chemotherapy With or Without Tislelizumab for Extensive-stage Small Cell Lung Cancer: RATIONALE-312 Phase 3 Study

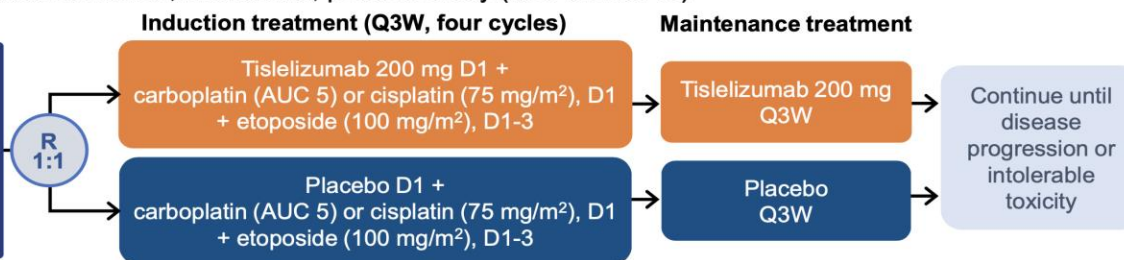
Ying Cheng,^{1*} Yun Fan,² Yanqiu Zhao,³ Dingzhi Huang,⁴ Xingya Li,⁵ Peng Zhang,⁶ Mafei Kang,⁷ Nong Yang,⁸
Diansheng Zhong,⁹ Zhen Wang,¹⁰ Yan Yu,¹¹ Yu Zhang,¹² Jun Zhao,¹³ Tai Qin,¹⁴ Chenqi Chen,¹⁵
Shiangjiin Leaw,¹⁵ Wenjuan Zheng,¹⁴ and Yong Song,¹⁶ on behalf of the RATIONALE-312 Study Group

Study Design

Randomized, double-blind, placebo-controlled, multicenter, phase 3 study (NCT04005716)

Key eligibility criteria

- Patients aged ≥ 18 years with histologically/cytologically confirmed ES-SCLC
- No prior systemic treatment for ES-SCLC
- ECOG PS ≤ 1



Stratification factors

- ECOG PS (0 vs 1)
- Cisplatin vs carboplatin
- Brain metastasis (yes vs no)

Primary endpoint: OS

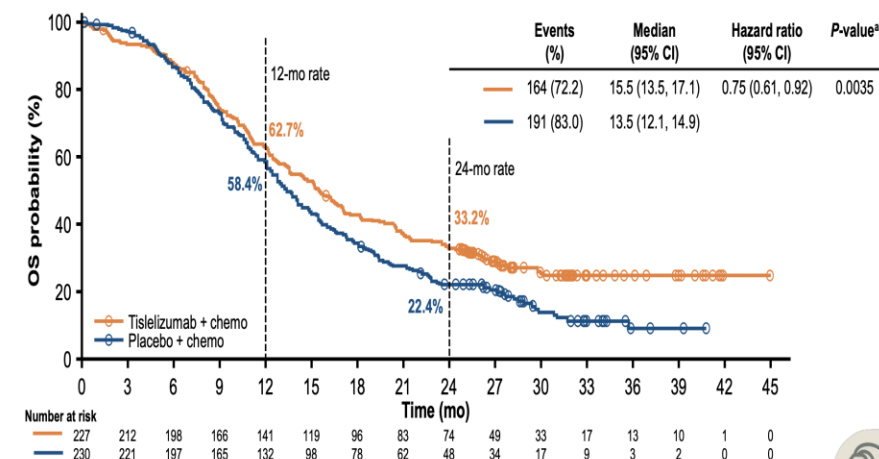
Key secondary endpoints:

- PFS, ORR, and DoR (INV-assessed)
- Safety and tolerability

Statistical methods

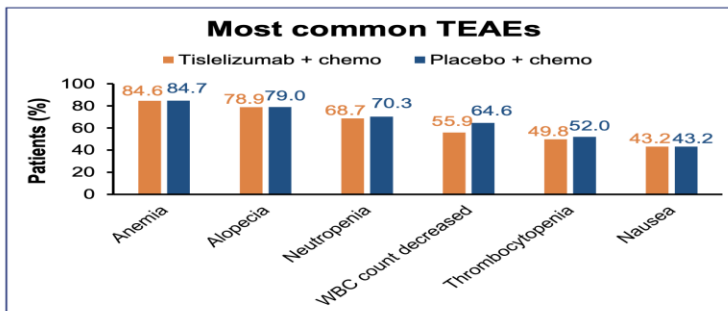
- Planned to enroll 455 pts; 80% power to detect HR 0.74 with 353 OS events
- Hierarchical testing on PFS: only when OS demonstrates significance^a

Overall Survival (OS)



Safety Summary

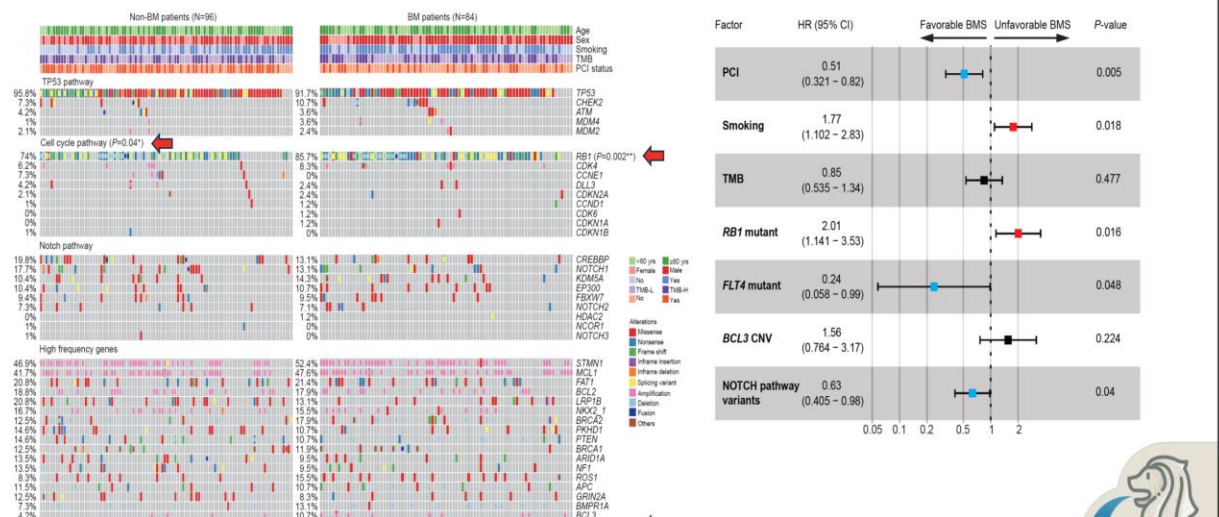
	Tislelizumab + chemo (n=227)	Placebo + chemo (n=229)
Tislelizumab/placebo cycles		
Mean	11.8	7.3
Median (range)	6.0 (1-59)	6.0 (1-48)
>16 cycles, n (%)	44 (19.4%)	10 (4.4%)
Chemotherapy cycles, median, n (range)	4 (1-4)	4 (1-4)
TEAEs, n (%)	226 (99.6)	228 (99.6)
Treatment-related ^a	226 (99.6)	228 (99.6)
Grade ≥ 3	201 (88.5)	206 (90.0)
Serious	94 (41.4)	69 (30.1)
Leading to discontinuation ^b	30 (13.2)	7 (3.1)
Leading to death ^c	14 (6.2)	4 (1.7)
Tislelizumab/placebo-related	7 (3.1)	0 (0.0)
Chemotherapy-related	6 (2.6)	0 (0.0)
Immune-mediated AEs, n (%)	87 (38.3)	41 (17.9)
Leading to death	1 (0.4)	0 (0.0)
Infusion-related reactions, n (%)	8 (3.5)	5 (2.2)



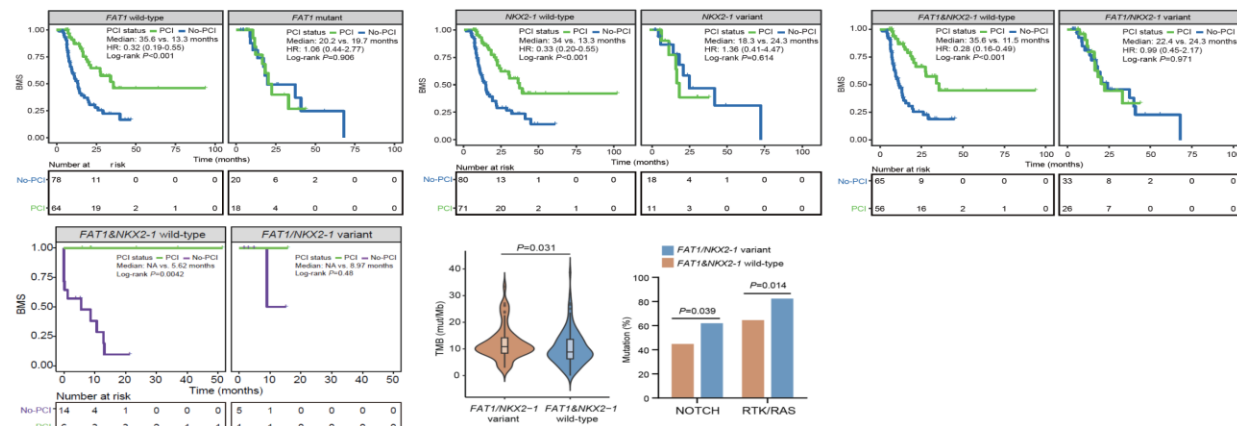
The most common immune-mediated AEs in the tislelizumab plus chemo arm were hypothyroidism (13.7%), rash (13.2%), hyperthyroidism (5.7%)

Biomarkers for Brain Metastases Risk and Survival Benefit of Prophylactic Cranial Irradiation in Limited-Stage Small-Cell Lung Cancer

Genomic alterations associated with BM risk in LS-SCLC



Potential predictive genomic signatures for PCI response



1. Genomic profiling revealed significant differences between LS-SCLC patients with and without brain metastases.
2. Five clinical/genomic features were independently associated with BM risk in LS-SCLC.
3. *FAT1* and *NKX2-1* mutational status effectively predicts PCI treatment response in LS-SCLC.

A Phase 1b/2 Study of Senaparib in Combination with Low-dose Temozolomide: Updated Results in Relapsed ES-SCLC Patients

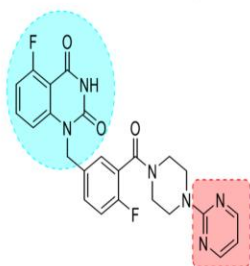
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Min Hee Hong¹, Bo Gao², Ying Cheng³, Byoung Yong Shim⁴, Melissa Johnson⁵, Cheng-Ying Liu⁶, Sang-We Kim⁷, Ki Hyeong Lee⁸, Robert Zielinski⁹, Richard Eek¹⁰, Sheng Hu¹¹, Chia-Chi Lin¹², Wei-Pang Chung¹³, Chih-Yi Hsieh¹⁴, Sui Xiong Cai¹⁴, Ye Edward Tian¹⁴, Lan Liu¹⁴, Tiantian Niu¹⁴, Clare Halcro¹⁵, Baoyue Li¹⁴, Ming Zhang¹⁴, Congcong Zhang¹⁴, Huiyun Li¹⁴, Li Xu¹⁴, Hsin-Tien Hung¹⁵



Introduction of senaparib



IMP4297, Senaparib

- There are very limited treatment options for relapsed ES-SCLC.
- Senaparib is a novel PARP1/2 inhibitor with improved efficacy combined with temozolomide in SCLC model^{1,2}.

Potential synergism of senaparib and temozolomide³

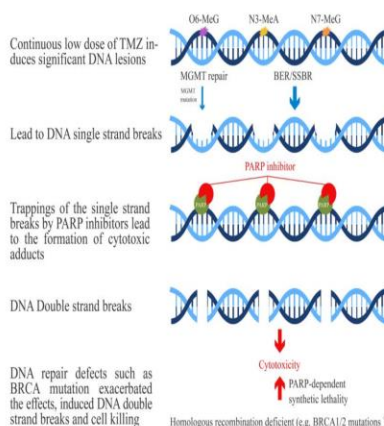
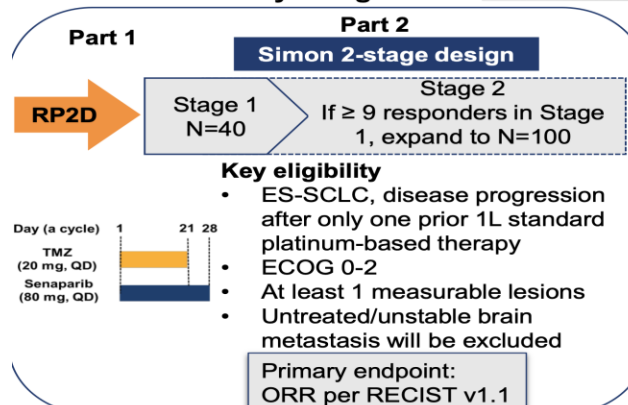


Figure 1. Mechanism of PARP inhibitors in combination with low dose temozolomide

Study design



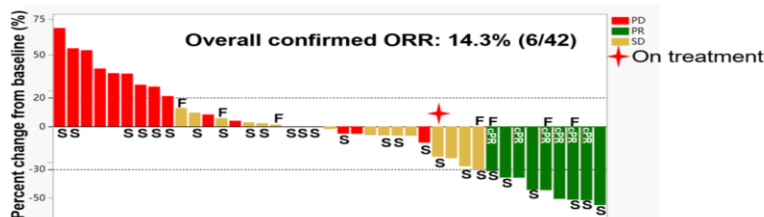
Baseline characteristics in Part 2

N=45		n (%)
Gender	Female/Male	11 (24.4)/34 (75.6)
Age (years)	Median	67.0 (39.0, 83.0)
Race	Asian/White	34 (75.6)/11 (24.4)
Smoking	Yes	41 (91.1)
History	No	4 (8.9)
Platinum sensitivity*	Resistant	18 (40.0)
	Sensitive	27 (60.0)
ECOG	≤1/2	43 (95.5)/2 (4.4)
Brain metastasis	Yes	11 (24.4)
	No	34 (75.6)
Prior IO	Yes/No	36 (80.0)/9 (20.0)

* Platinum sensitive: chemotherapy-free interval (CFI) exceeds 90 days. Platinum resistant: CFI within 90 days.

Efficacy

Best change from baseline in Target lesions



S: platinum-sensitive; F: FANC mut; one patient was not shown as the target lesions were not evaluable post-baseline.

- Median follow-up: 8.3 months (0.6-18.7)
- Median time to response: 1.8 months (1.7-2.0)
- Median duration of response: 4.8 months (95% CI, 3.9- NR)

	FANC WT (n=38)	FANC mut (n=7)
Confirmed ORR	8.6% (3/35)	42.9% (3/7)
mDOR (months) (95% CI)	4.0 (3.4, NR)	5.6 (3.9, NR)

- FANC WT: no pathogenic mutation in FANC genes;
- FANC mut: at least one pathogenic mutation in FANC genes, including FANCA, FANCD1(BRCA2), FANCL, FANCM, et al.

Conclusiones

- Mesotelioma:
 - Sigue siendo una entidad de difícil diagnóstico y consenso anatomopatológico.
 - La anemia y los niveles de mesotelina son factores pronósticos.
 - Los anticuerpos conjugados combinados con IO y las células dendríticas en monoterapia no han aportado avances.
 - La pérdida de BAP1 se asocia a mejor respuesta a IO
 - Estudios de vida real reflejan datos similares y muestran la asociación de toxicidad con incremento en OS.
- SCLC:
 - Benmelstobart + anlotinib: Muestran excelentes resultados en supervivencia con toxicidad manejable: PERO EN POBLACIÓN ASIÁTICA.
 - Se mantiene hasta un 12% de largos supervivientes con Atezolizumab a 5 años en el estudio Imbrella.
 - Datos prometedores en fase I del anticuerpo dual CD3/DLL3 en segundas líneas con tasas de respuesta de 50% y respuestas duraderas.
 - Se confirma con tislelizumab la eficacia de tratar el eje PD1-PDL1 en SCLC.
 - Estudios genómicos muestran posibles biomarcadores para el beneficio de la PCI: FAT1 y NKX2
 - Senaparib (iPARP) muestra datos de eficacia en pacientes previamente tratados especialmente en paciente con mutaciones en FANC

