

Webinar Outline

- A Phase 2, Multi-Center Study of the Safety and Efficacy of Tebentafusp in Patients with Metastatic Uveal Melanoma (IMCgp100-102) - **Joseph Sacco, MBChB, MSc, MRCP, PhD**
- A phase I clinical trial on intratumoral administration of ipilimumab plus nivolumab followed by intracavitary administration of nivolumab in patients with recurrent glioblastoma - **Julia Katharina Schwarze, MD, MSc**
- Additional clinical abstracts of interest from ESMO IO 2020 - **Sunandana Chandra, MD, MS**

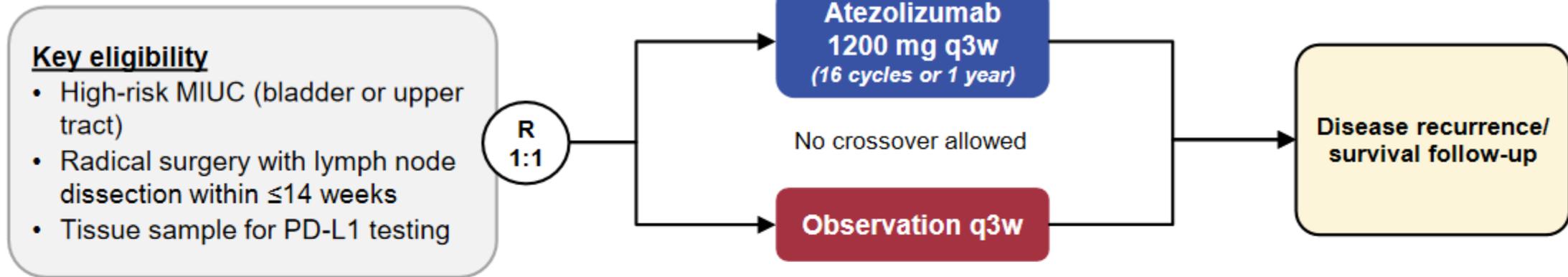
Additional clinical abstracts of interest

- Abstract 1: Clinical outcomes in post-operative ctDNA(+) muscle-invasive urothelial carcinoma patients after atezolizumab adjuvant therapy – *Thomas Powles*
- Abstract 2: TG4001 therapeutic vaccination combined with PD-L1 blocker avelumab remodels the tumor microenvironment (TME) and drives antitumor responses in human papillomavirus (HPV)+ malignancies – *C. Le Tourneau*
- Abstract 3: A randomized, controlled, multicenter phase II trial of camrelizumab combined with albumin-bound paclitaxel and cisplatin as neoadjuvant treatment in locally advanced NSCLC – *Jie Lei*

Clinical outcomes in post-operative ctDNA(+) muscle-invasive urothelial carcinoma patients after atezolizumab adjuvant therapy

Thomas Powles, Zoe June Assaf, Nicole Davarpanah, MahaHussain, Stephane Oudard, Jürgen E. Gschwend, Peter Albers, Daniel Castellano, Hiroyuki Nishiyama, SiamakDaneshmand, Petros Grivas, Shruti Sharma, Himanshu Sethi, Alexey Aleshin, JingbinZhang, Viraj Degaonkar, Carlos Bais, Corey A. Carter, Joaquim Bellmunt, Sanjeev Mariathan

IMvigor010: Trial design



Key eligibility

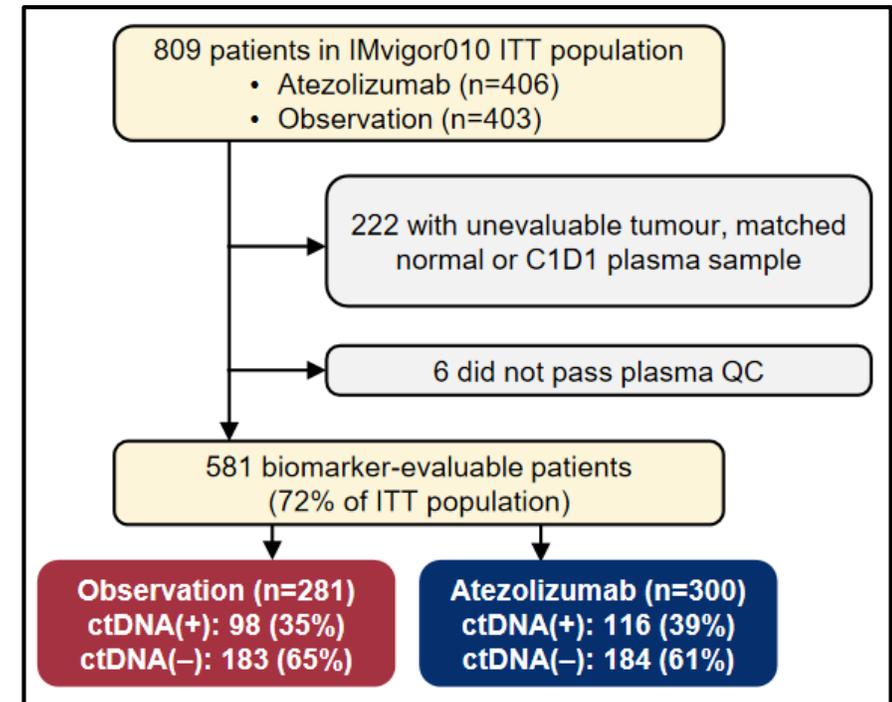
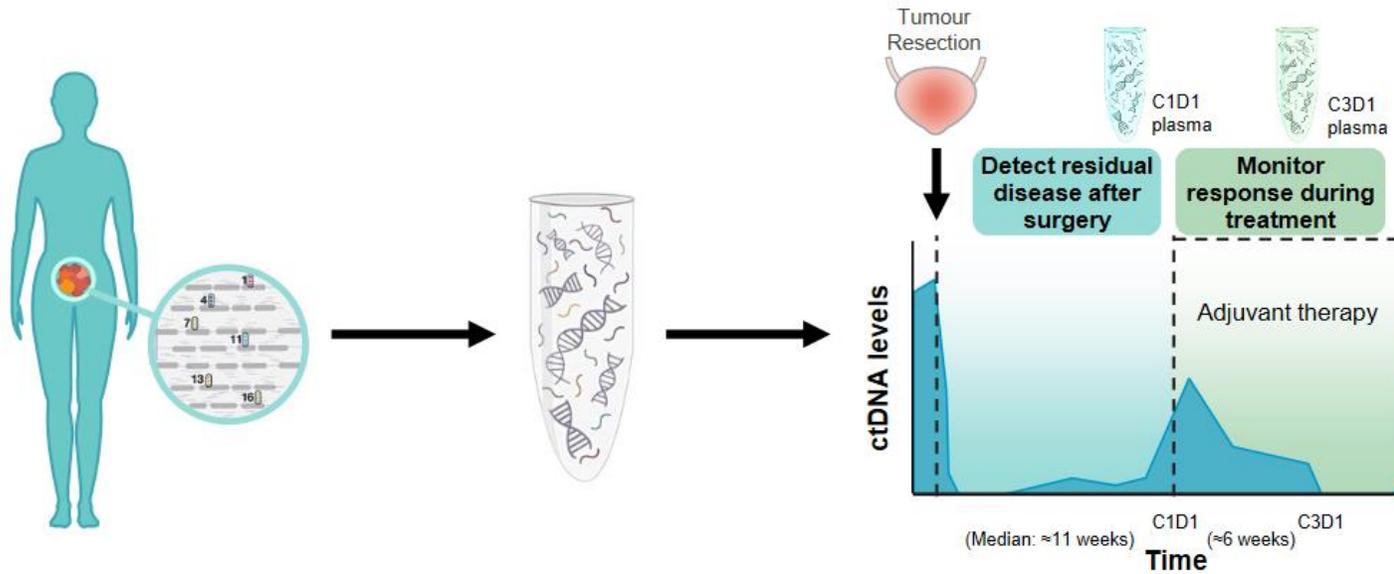
- High-risk MIUC (bladder or upper tract)
- Radical surgery with lymph node dissection within ≤ 14 weeks
- Tissue sample for PD-L1 testing

Endpoints

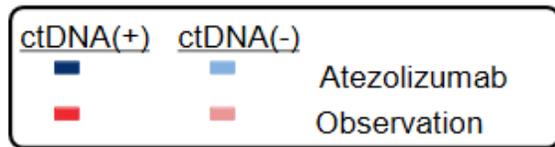
- Primary: DFS (ITT population)
- Key secondary: OS (ITT population)
- Other: Safety
- **Exploratory: predictive, prognostic and pharmacodynamic biomarkers in tumour tissue and blood and their association with disease recurrence**

- IMvigor010 did not meet its primary endpoint (DFS in the ITT population)¹
 - A pre-planned interim OS analysis was performed but could not be formally tested
 - OS follow-up is immature and ongoing in the ITT population
- The PD-L1 and TMB biomarkers did not identify patients benefitting from atezolizumab vs observation in the ITT population
- A pre-specified ctDNA biomarker analysis was performed using the Signatera assay

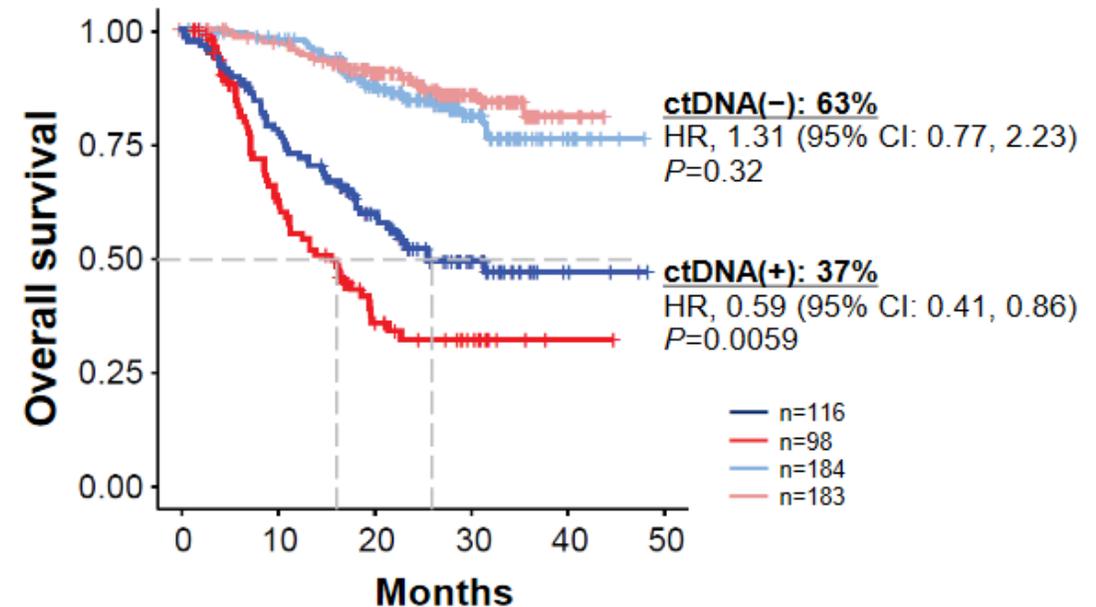
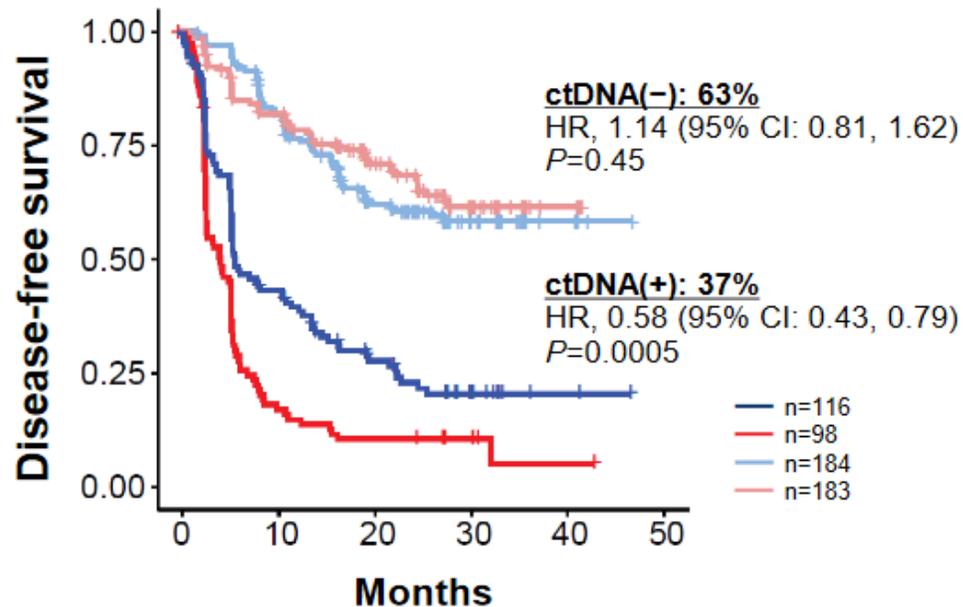
ctDNA evaluation in IMvigor010



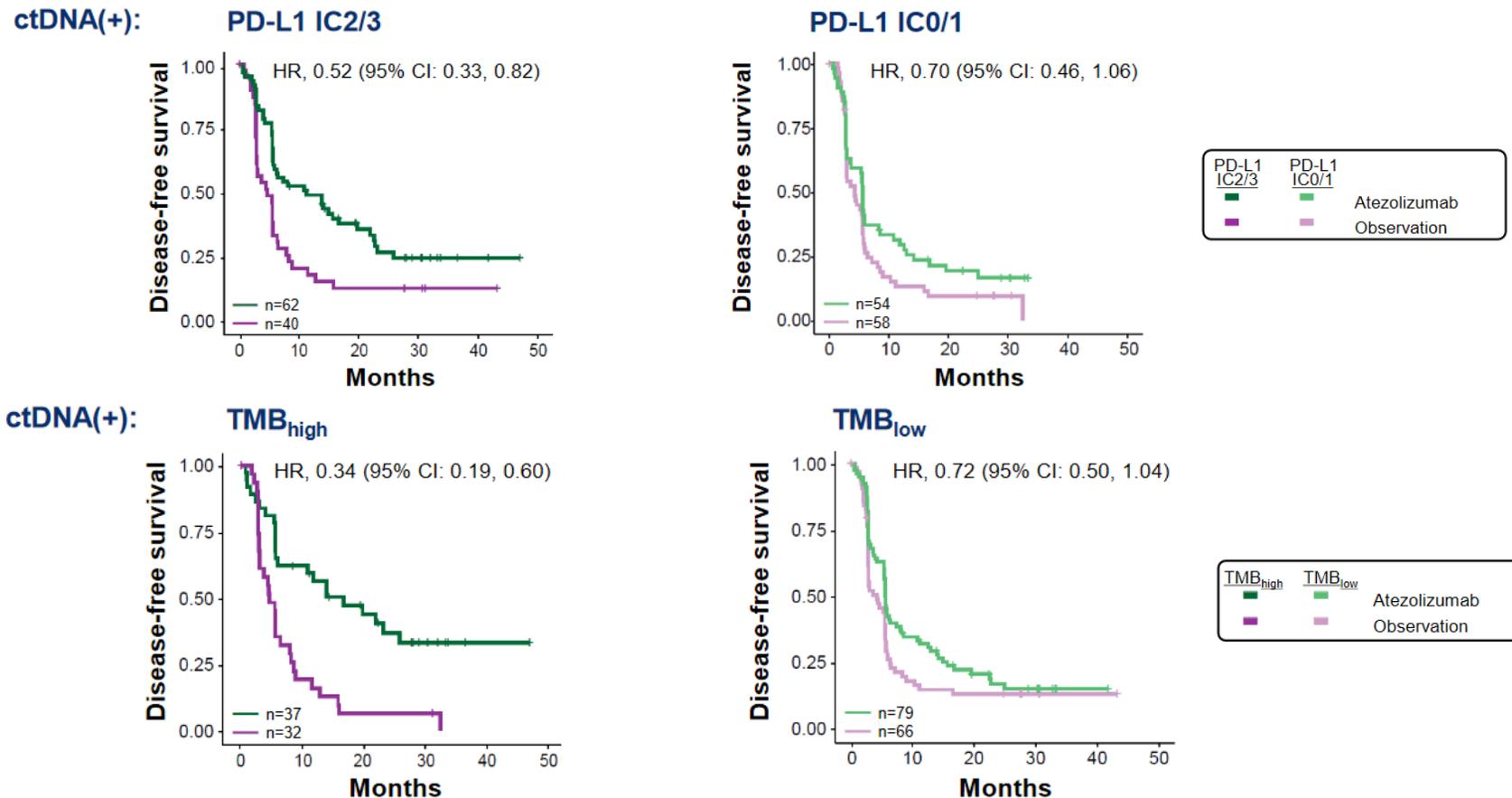
ctDNA(+) patients had improved outcomes with atezolizumab treatment



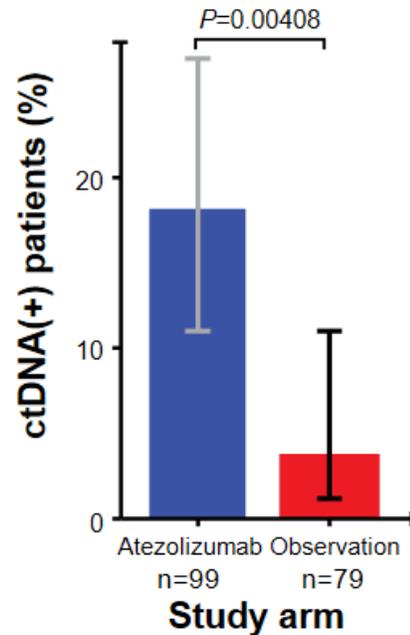
	ctDNA(+) patients	
	Atezolizumab	Observation
Median DFS (95% CI), mo	5.9 (5.6, 11.2)	4.4 (2.9, 5.6)
Median OS (95% CI), mo	25.8 (20.5, NR)	15.8 (10.5, 19.7)



PD-L1(+) or TMB-high, ctDNA(+) patients have improved outcomes with atezolizumab

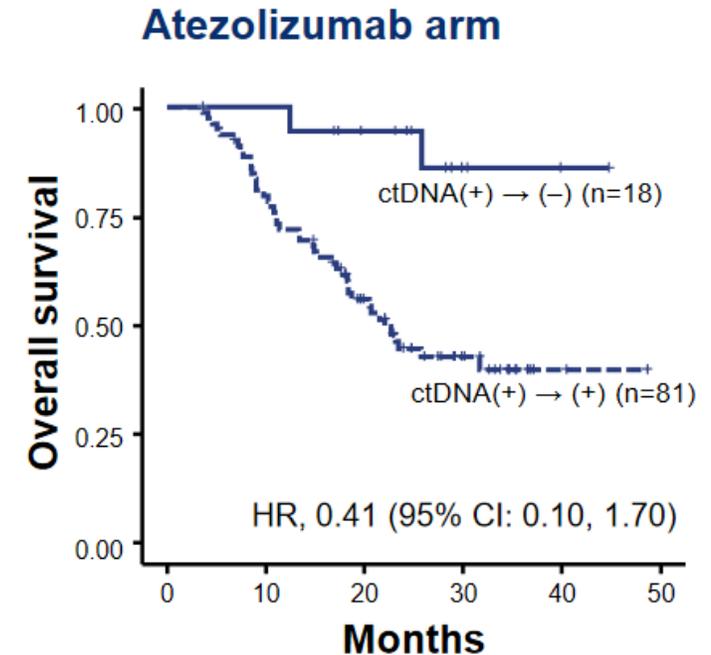
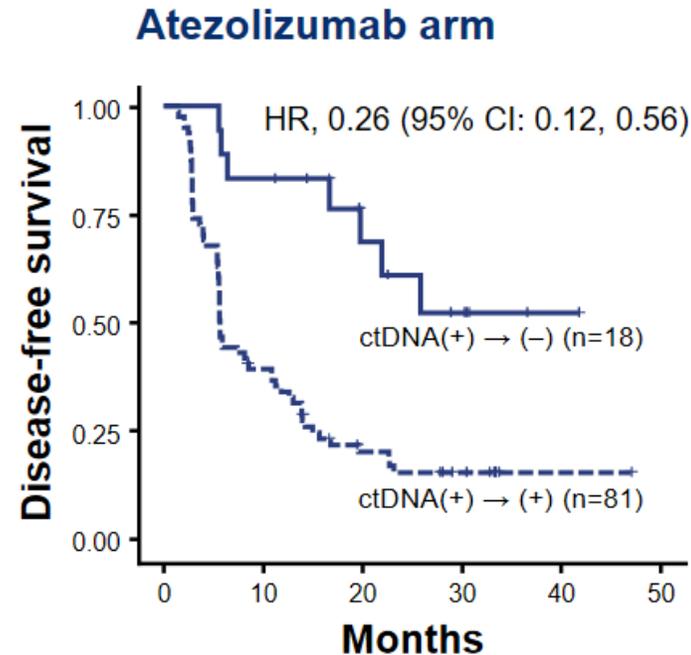


ctDNA clearance associated with improved outcomes with atezolizumab



	Atezolizumab	Observation
ctDNA(+) → (-)	18 (18.8%)	3 (3.8%)
ctDNA(+) → (+)	81 (81.82%)	76 (96.2%)

- ctDNA clearance occurs at a higher rate in the atezolizumab vs observation arm (C1 → C3)



- ctDNA clearance was associated with improved DFS and OS outcomes in the atezolizumab arm

TG4001 therapeutic vaccination combined with PD-L1 blocker avelumab remodels the tumor microenvironment (TME) and drives antitumor responses in human papillomavirus (HPV)+ malignancies

C. Le Tourneau, P. Cassier, F. Rolland, S. Salas, J.-M. Limacher, O. Capitain, O. Lantz, A. Lalanne, C. Ekwegbara, A. Tavernaro, H. Makhloufi, K. Bendjama, J.-P. Delord

Study design and patient characteristics

Key Eligibility Criteria

- Metastatic or refractory/recurrent HPV-16+ cancer including oropharyngeal SCCHN, cervical, vulvar, vaginal, penile and anal cancer
- HPV16 positivity determined in central laboratory by nested PCR with HPV-16 specific probes and retest of negative results by sequencing
- Up to two prior lines of systemic therapy for the management of metastatic or recurrent disease
- ECOG PS 0 or 1
- No previous exposure to cancer immunotherapies
- No CNS metastases
- No chronic treatment with systemic corticosteroids

Treatment regimen

TG4001: administered SC

- Weekly for 6 weeks, then every 2 weeks up to M6, and every 12 weeks

Avelumab: 10mg/kg – administered IV

- Every 2 weeks starting one week after the first vaccine dose

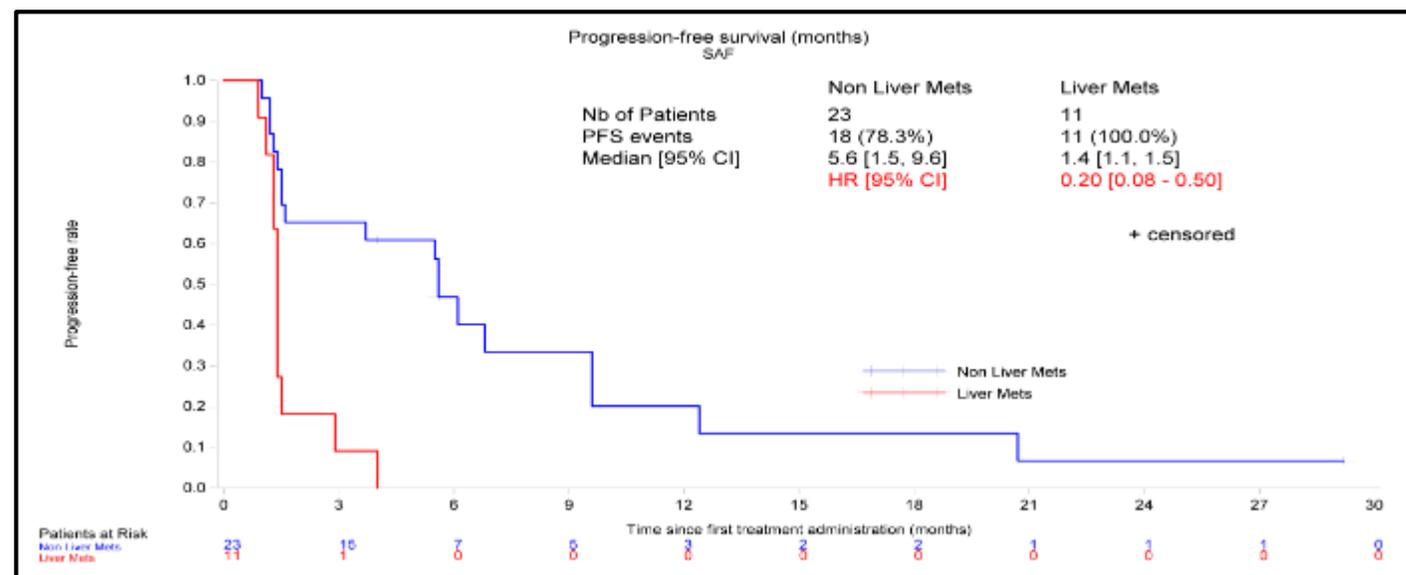
Pooled analysis of phase Ib/II consisting of 6 patients of the phase Ib treated with the phase II dose of TG4001 = 5×10^7 pfu and 28 evaluable patients of the phase II

Patient Demographics and Baseline Characteristics

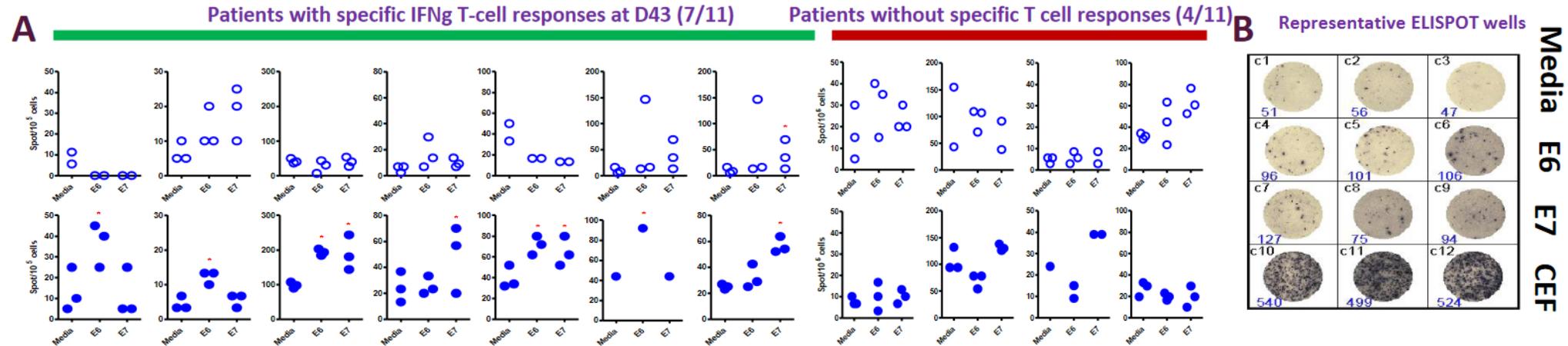
	Phase I (n=6)	Phase II (n=28)	Overall (N=34)
Age (years)			
Mean	61.2	58.3	58.8
Range	39 - 78	28 - 79	28 - 79
Gender			
Female	2	20	22 (64.7%)
Male	4	8	12 (35.3%)
Performance Status (ECOG)			
0	4	10	14 (41.2%)
1	2	18	20 (58.8%)
Primary tumor			
Anal	0	15	15 (44.1%)
Cervical	1	5	6 (17.6%)
Oropharyngeal	4	4	8 (23.5%)
Vaginal	1	3	4 (11.8%)
Vulvar	0	1	1 (2.9%)
Number of organs Involved			
1	3	9	12 (35.3%)
2	2	11	13 (38.2%)
3	1	8	9 (26.5%)
Number of CT lines for R/M disease			
0	2	2	4 (11.8%)
1	4	15	19 (55.9%)
2	0	11	11 (32.3%)
Tumor burden (mm)			
Mean	47.0	70.4	66.3
Median	46.5	61.4	58.5
Range	28.0 – 72.0	11.0 – 199.0	11.0 – 199.0

Efficacy of TG4001 and avelumab

Efficacy parameters	Patients without liver metastases n=23	Patient with liver metastases n=11	Overall n = 34
Response (RECIST 1.1)			
CR : Complete Response	1 (4.3%)	0	1 (2.9%)
PR : Partial Response	7 (30.4%)	0	7 (20.6%)
ORR : Overall Response	8 (34.8%) [16.4 ; 57.3]	0 (0%)	8 (23.5%) [10.7 ; 41.2]
Disease Control Rate (DCR) at 12 weeks	13 (56.5%)	1 (9.1%)	14 (41.2%)
Progression ≤ 12 weeks	10 (43.5%)	10 (90.9%)	20 (58.8%)
Response according to primary tumor (responders/total number of patients %):			
Anal	2/7 (28.6%)	0/8	2/15 (13.3%)
Oropharyngeal	2/8 (25.0%)	-	2/8 (25.0%)
Cervical	2/5 (40.0%)	0/1	2/6 (33.3%)
Vulvar/Vaginal	2/3 (66.7%)	0/2	2/5 (40.0%)

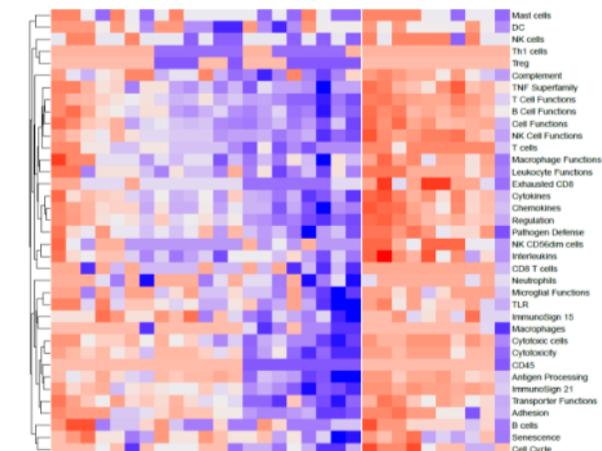


Immune studies



* Positive immune response is defined as onset of an antigen response with a number of spot that is significantly superior to background (medium + 2 x CV)

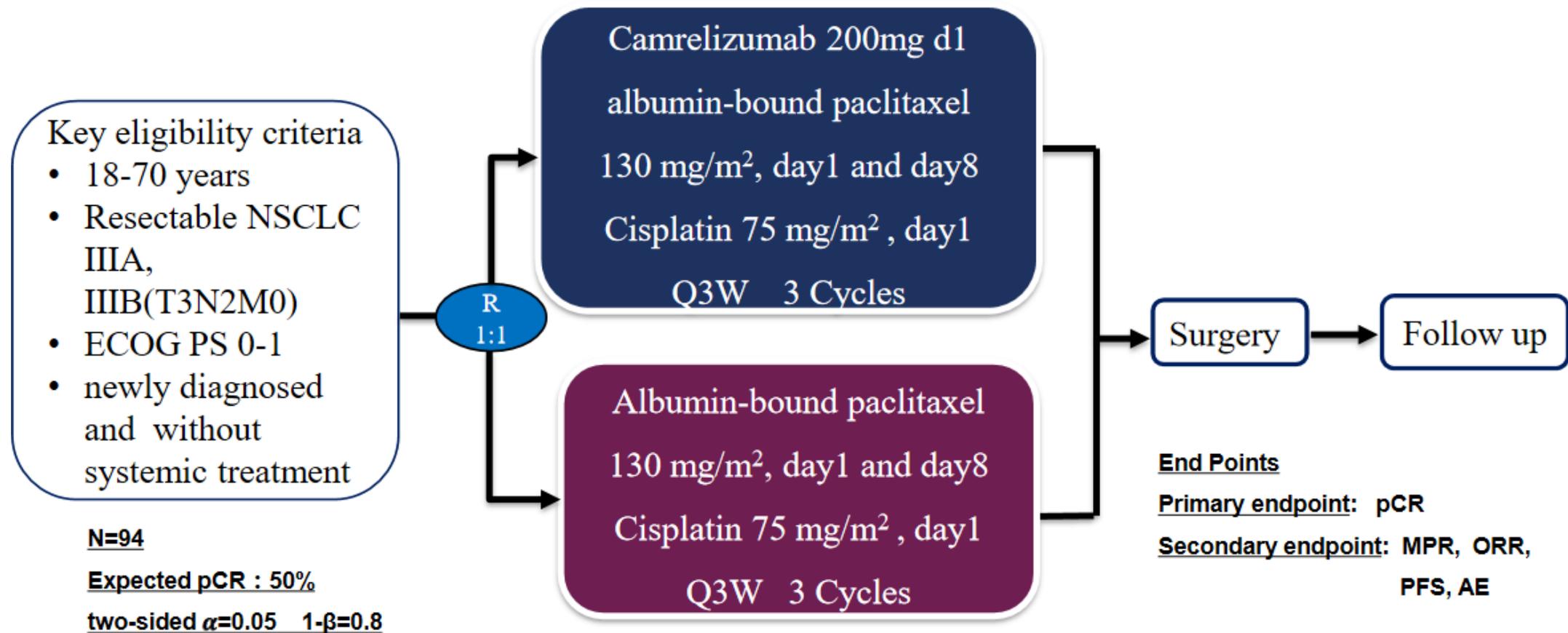
D Genes associated to immune function/pathways were strongly increased at D43 vs Baseline



A randomized, controlled, multicenter phase II trial of camrelizumab combined with albumin-bound paclitaxel and cisplatin as neoadjuvant treatment in locally advanced NSCLC

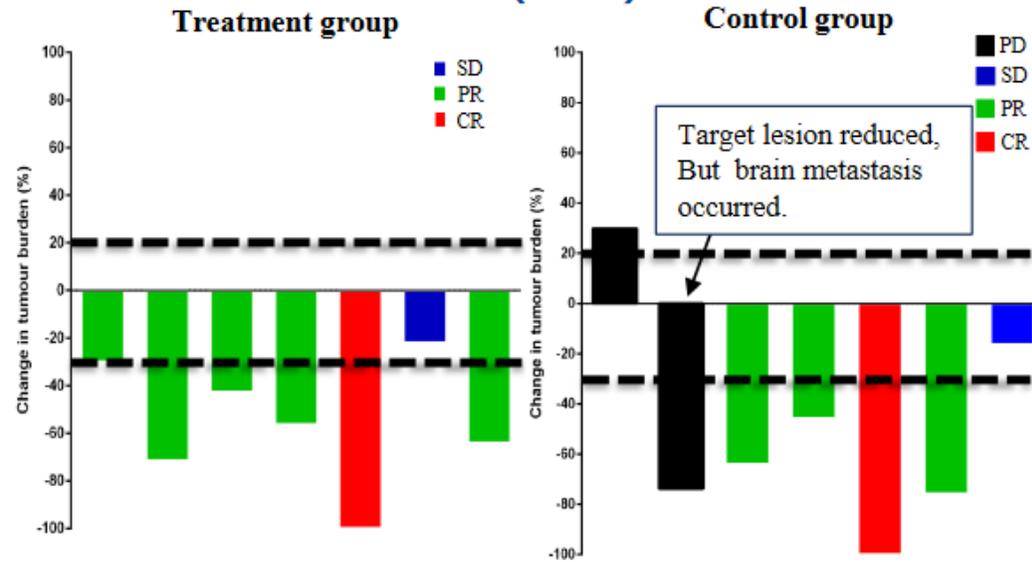
Jie Lei, Xiaolong Yan, Jinbo Zhao, Feng Tian, Qiang Lu, Tao Jiang

Study design



Efficacy

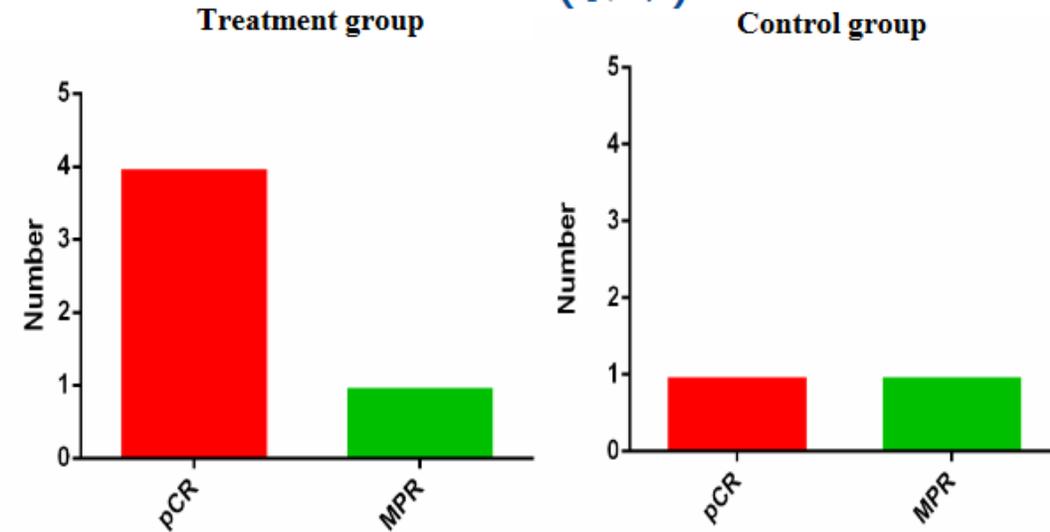
Response according to RECIST 1.1
(N=7)



Bset Response	N (7)	%
CR	1	14.29
PR	5	71.42
SD	1	14.29
PD	0	0
CR+PR	6	85.71

Bset Response	N (7)	%
CR	1	14.29
PR	3	42.86
SD	1	14.29
PD	2	28.56
CR+PR	4	57.15

Pathological response
(N=7)



Bset Response	N (7)	%
pCR	4	57.15
MPR	2	28.58
pCR+MPR	6	85.71

Bset Response	N (7)	%
pCR	1	14.29
MPR	1	14.29
pCR+MPR	2	28.58