

Preliminary Clinical Outcomes of ADP-A2M4CD8, a Next-Generation Autologous T-Cell Receptor T-Cell Therapy, in Patients With Advanced Epithelial Ovarian Cancer

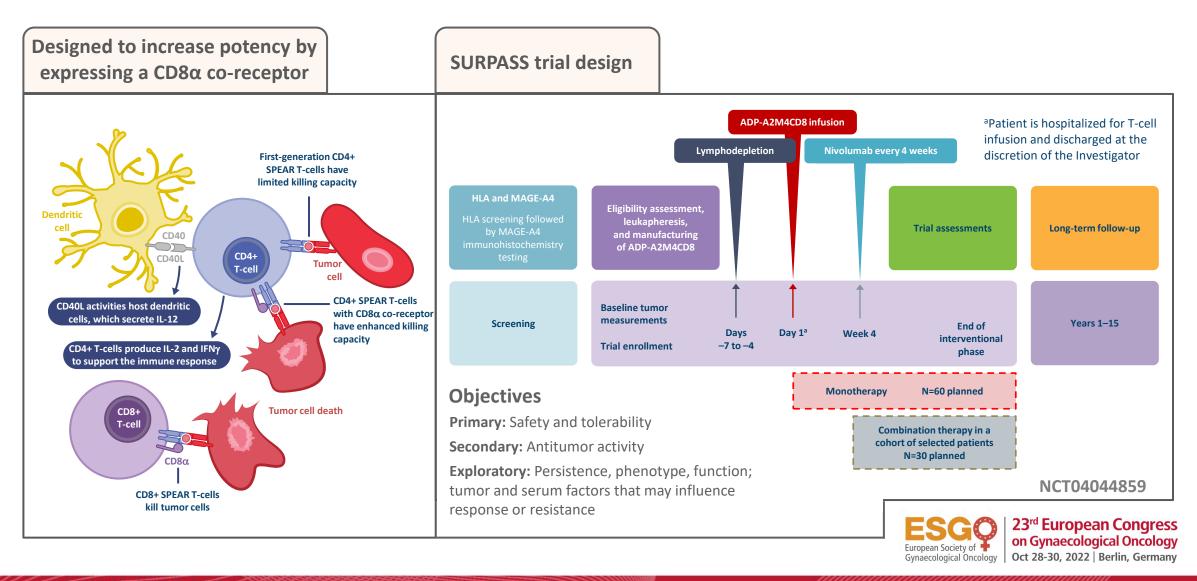
Date: Thursday Oct 27, 2022; 2:50 PM - 3:50 PM

Name: Dr. Kathleen Moore

Declaration of Interests



The Phase 1 SURPASS Trial Evaluates ADP-A2M4CD8 Next-Generation SPEAR T-Cell Therapy in Selected Solid Tumors



Baseline Patient and Disease Characteristics

Eligibility in ovarian cancer based on HLA and MAGE-A4 inclusion criteria from the screening protocol (NCT02636855) as of November 19, 2021¹



HLA eligible: 49% MAGE-A4 positive: 24%

Baseline patient and disease characteristics

	N=14
Median age, years (range)	59 (40, 75)
H-score, ^a median (range)	237.5 (95, 300)
Transduced T-cells × 10 ⁹ , median (range)	3.17 (1.14, 9.95)
ECOG performance status, n (%) 0 1	6 (42.9) 8 (57.1)
No. of prior lines of therapy, median (range)	4 (2, 8)

- Most patients were high-grade serous (79%; 11/14)
 - Others were clear cell (n=2) and low-grade serous (n=1)
- Most patients had a platinum-free interval of <6 months
- All patients were previously treated with bevacizumab, and most patients (64%) received a prior PARP inhibitor



Safety (All Tumor Indications)

Adverse events related to T-cell infusion in ≥10% of patients^a

Preferred term	N=44, n (%)
Any AE	40 (90.9)
CRS	32 (72.7)
Neutropenia/neutrophil count decreased	13 (29.5)
Anemia/RBC decreased	10 (22.7)
Pyrexia	10 (22.7)
Fatigue	9 (20.5)
Leukopenia/WBC decreased	7 (15.9)
Rash	7 (15.9)
Thrombocytopenia/platelet count decreased	7 (15.9)
Dyspnea	6 (13.6)
Нурохіа	6 (13.6)
ICANS	6 (13.6)
Pleural effusion	6 (13.6)
Febrile neutropenia	5 (11.4)
Hypotension	5 (11.4)
Sinus tachycardia/tachycardia	5 (11.4)

Serious adverse events and those related to T-cell infusion in ≥5% of patients^a

Preferred term	N=44, n (%)	
	SAE	Related SAE
Any SAE	27 (61.4)	21 (47.7)
CRS	14 (31.8)	14 (31.8)
Нурохіа	3 (6.8)	3 (6.8)
ICANS	3 (6.8)	3 (6.8)
Pyrexia	3 (6.8)	2 (4.5)

There were 2 related Grade 5 (fatal) SAEs:

CRS

- 60-year-old with ovarian cancer
- Large tumor burden in lungs and previous lung radiotherapy
- Cause of death: pneumonia and CRS

Pancytopenia

- 71-year-old man with adenocarcinoma of esophagus
- History of chronic anemia
- Developed new lesions in liver
- Cause of death: bone marrow failure

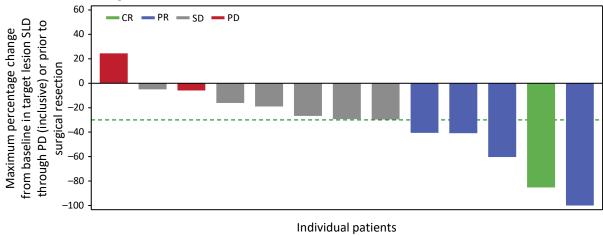
Events were consistent in the ovarian subgroup



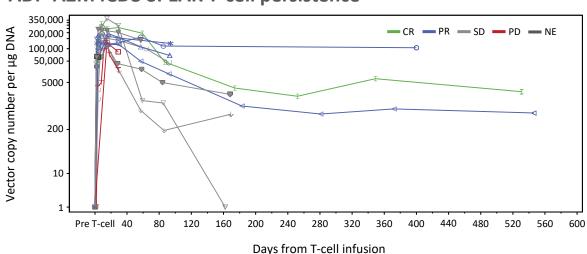
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Antitumor Activity per RECIST v1.1 by Investigator Review and SPEAR T-Cell Persistence Over Time (Patients with Ovarian Cancer)

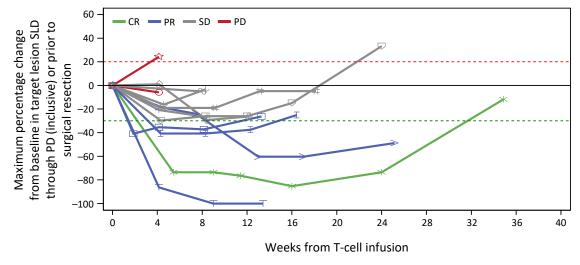
Change from baseline in target lesion SLD colored by best overall response



ADP-A2M4CD8 SPEAR T-cell persistence



Change from baseline in target lesion SLD over time colored by best overall response



Overall response rate

• 36% (5 of 14 patients)*

Disease control rate^a

79% (11 of 14 patients)*

Duration of response (range)^b

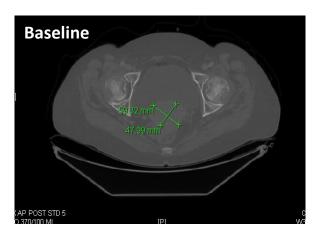
9+ to 30 weeks



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Case Studies of 2 Responding Patients with Ovarian Cancer

Stage III platinum-resistant high-grade serous ovarian cancer (BRAC1/2)

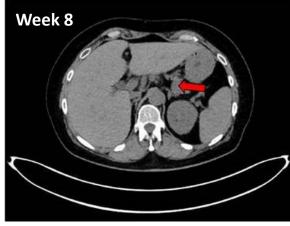




- **Baseline:** Low MAGE-A4 expression (25% tumor cells with 3+ staining); prior history of multiple surgeries and systemic therapies
- **Dose:** 6.6 billion ADP-A2M4CD8 cells
- Response: PR at Week 4 and confirmed at Week 8
- Safety: One related SAE (Grade 1, CRS) resolved within 1 week. Ten days later, 3 related SAEs (Grade 2, hypoxia; Grade 2, dyspnea; Grade 3, rash); all resolved
- Data cut-off August 1, 2022

Grade 3 serous ovarian cancer (pT3bN1)





- **Baseline:** High MAGE-A4 expression with 95% tumor cells with 3+ staining; prior history of multiple surgeries and systemic therapies
- Dose: 3.24 billion ADP-A2M4CD8 cells
- Response: CR at Week 4 and confirmed at Week 8
- **Safety:** One related SAE (Grade 1, pyrexia/fever) resolved within 1 week
- Data cut-off August 2, 2021



Conclusions

- Encouraging anti-tumor activity with ADP-A2M4CD8 monotherapy in patients with advanced MAGE-A4+ ovarian cancer
- Toxicity included CRS, ICANS, and prolonged cytopenia after lymphodepletion and T-cell infusion
- ADP-A2M4CD8 monotherapy continues to show an acceptable benefit-to-risk profile; mechanism of action supports expansion into combination therapy with an anti-PD1 checkpoint inhibitor
 - An additional treatment cohort with nivolumab has been initiated in the Phase 1 SURPASS trial
- Results support initiation of a planned Phase 2 study for ovarian cancer (SURPASS-3)



Patients and their caregivers for taking part in this trial Investigators and their teams who participated in this work





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