



ADI-001 Phase 1 Interim First in Human Clinical Data

First-in-class allogeneic, off-the-shelf
gamma delta ($\gamma\delta$) CAR T cells



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Agenda

	Welcome and Introductory Remarks	Chen Schor President and CEO
	Review of ADI-001 Interim Phase 1 Data	Francesco Galimi, M.D., Ph.D. Chief Medical Officer
	Opportunities Offered by $\gamma\delta$ T Cell Therapy	Sattva Neelapu, M.D. MD Anderson Cancer Center
	Closing Remarks/Q&A	Chen Schor/All

Adicet Bio: Leaders in $\gamma\delta$ CAR T Cell Therapy

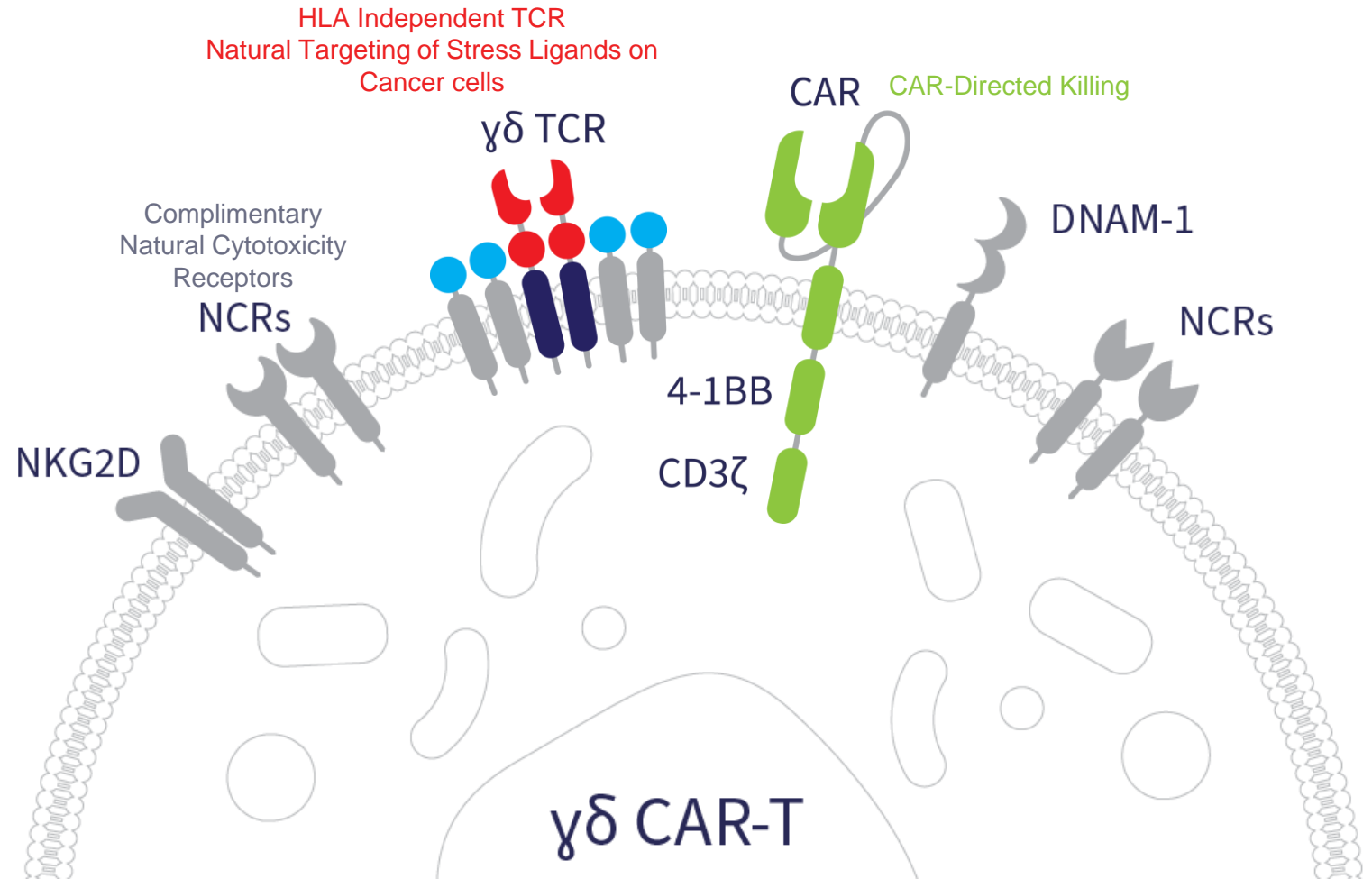
- ADI-001 is the first-ever off-the-shelf, $\gamma\delta$ CAR T cell investigational therapy to reach clinical trials and report clinical data
- Interim clinical data indicate that ADI-001 is highly clinically active with a favorable safety profile in patients treated to date
- $\gamma\delta$ T cells may provide significant clinical advantages both in terms of anti-tumor activity and safety compared to other allogeneic cell platforms or bispecifics
- $\gamma\delta 1$ T cells may provide benefits as compared to $\gamma\delta 2$ T cells

Adicet's $\gamma\delta$ 1 CAR T Cells: 3 Mechanisms for Anti-tumor Activity

$\gamma\delta$ CAR T cells designed to provide three mechanisms for anti-tumor activity; More limited ability for tumor escape

1. Innate anti-tumor activity targeting multiple surface proteins selected by evolution to mark tumors for cell killing
2. Adaptive anti-tumor activity via $\gamma\delta$ TCR
3. CAR mediated anti-tumor activity

- No requirement for gene editing to remove TCR
- Potential for outpatient administration
- Intrinsically home to and function in tissues and solid malignancies



Adicet CAR $\gamma\delta$ T Cell Platform Potential Advantages: Designed to Address Activity, Tumor Homing, Safety, and COGs Limitations

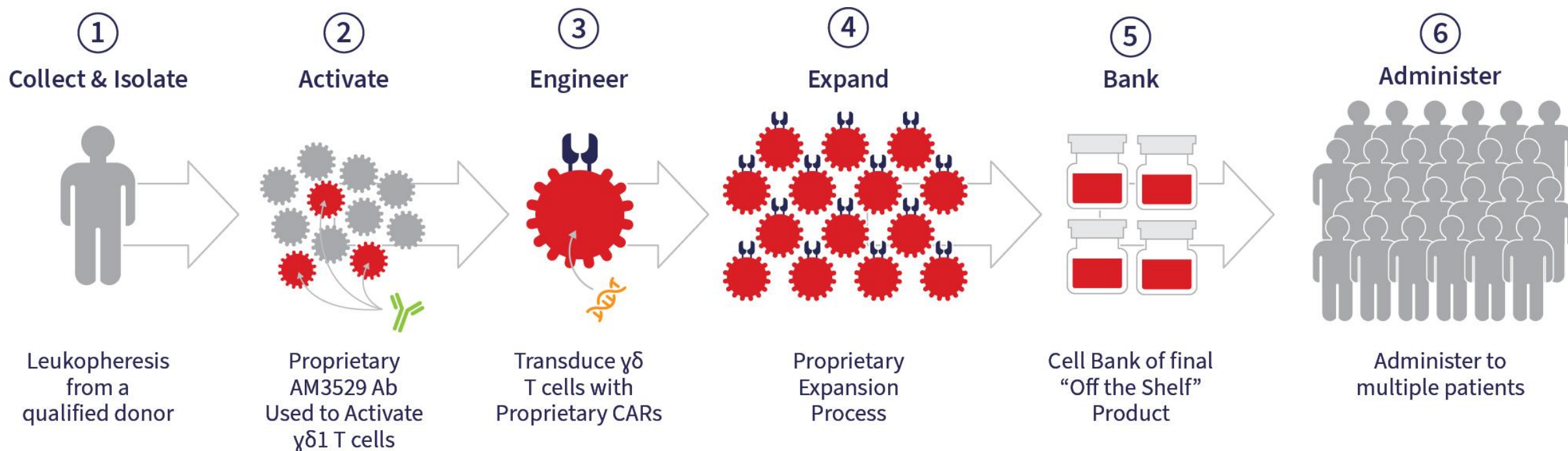
		Allogeneic CAR $\alpha\beta$ T Cells	Allogeneic CAR NK Cells	Allogeneic CAR $\gamma\delta$ T Cells
Activity*	Innate anti-tumor response		✓	✓
	Adaptive anti-tumor response	✓		✓
	Active tumor homing			✓
	Predominantly activating receptor expression	(Limited number) ✓	(Balance with inactivating) ✓	✓
	Preclinical persistence by repeat tumor challenge			✓
	Prognostic value of tumor infiltration		✓	✓ ✓
Safety*	Low GvHD risk	(Requires $\alpha\beta$ TCR deletion) ✓	✓	✓
	Low risk of cytokine release syndrome \geq grade 3 risk		✓	✓
COGS	No gene editing required (May affect efficacy)		✓	✓
	Scalable manufacturing	Limited without exhaustion ✓	✓	✓ ✓

Advantages of $\gamma\delta$ 1 T Cells

	Feature	V δ 1+ T cells	V δ 2+ T cells	Comment
Activity	Diverse VDJ rearranged TCR			V δ 2+ T cells generally express invariant TCR
	Programmed adaptations for tissue survival			V δ 1+ T cells tolerate hypoxic and low nutrient conditions
	Expression of tumor homing receptors			V δ 1+ T cells express CCR5 and tumor homing receptors
	Long lifespan & adaptive immune response			V δ 1+ T cells oligoclonally expand to pathogenic antigens
	MHC unrestricted TCR			V δ 1+ T cells recognized antigen independent of MHC
	NKG2D & broad NCR expression			Prevents immune escape of tumor cells
	High granzyme & perforin expression			V δ 1+ T cells are highly cytolytic (similar to CD8 $\alpha\beta$ T cells)
	Broad anti-tumor toxicity			V δ 1+ T cells recognize numerous malignant cell types
	Low / no KIR Expression			Adicet's V δ 1+ T cells display low inhibitory KIR
Potential safety	GvHD incompatible TCR			V δ 1+ T cells cannot be activated by unmatched MHC
	No IL-17 / ROR γ t expression (Th17)			Adicet's V δ 1+ T cells never express "protumorigenic" IL-17 or ROR γ t
	Moderate IL-2 expression			Adicet's V δ 1+ T cells don't hyperproliferate
	High expansion without exhaustion			Adicet's V δ 1+ T have potential for 2E11 fold expansion

IL: Interleukin; KIR: killer cell immunoglobulin like receptor; MHC: major histocompatibility complex;
NCR: natural cytotoxicity receptor; NK: natural killer; TCR: T cell receptor; Th: T helper

Large-Scale Manufacture of Off-The-Shelf $\gamma\delta$ T Cell Candidates



Proprietary AM3529 activating antibody designed to expand $\gamma\delta 1$ T cells, Proprietary Vectors, Proprietary Scalable Process

ADI-001 FIH: Key Topics Adicet Set Out to Answer

Safety

Will we see GvHD, neurotoxicity or high-grade CRS commonly associated with other cell therapies?

Expansion/ Proliferation

Will ADI-001 proliferate and be detected in the blood?

PD Biomarkers

Will we see any pharmacodynamic biomarkers consistent with ADI-001 activation?

Anti-Tumor Activity

Will we see any signs of anti-tumor activity?

ADI-001 FIH: Key Findings to Date

Safety

Favorable safety profile in patients treated to date; No GvHD, neurotoxicity, or high-grade CRS reported

Expansion/ Proliferation

Evidence of *in vivo* expansion

PD Biomarkers

Evidence of circulating pharmacodynamic biomarkers consistent with ADI-001 activation

Anti-Tumor Activity

Complete and near-complete responses observed starting at ADI-001's lowest dose level, including a CR in a CAR T relapsed patient (ORR=75%, CR=50%)

Data supports potential of Adicet's first-in-class allogeneic $\gamma\delta$ CAR T cell platform

GLEAN1 – Interim Data

Gamma deLta adoptive thErApy for B cell NHL

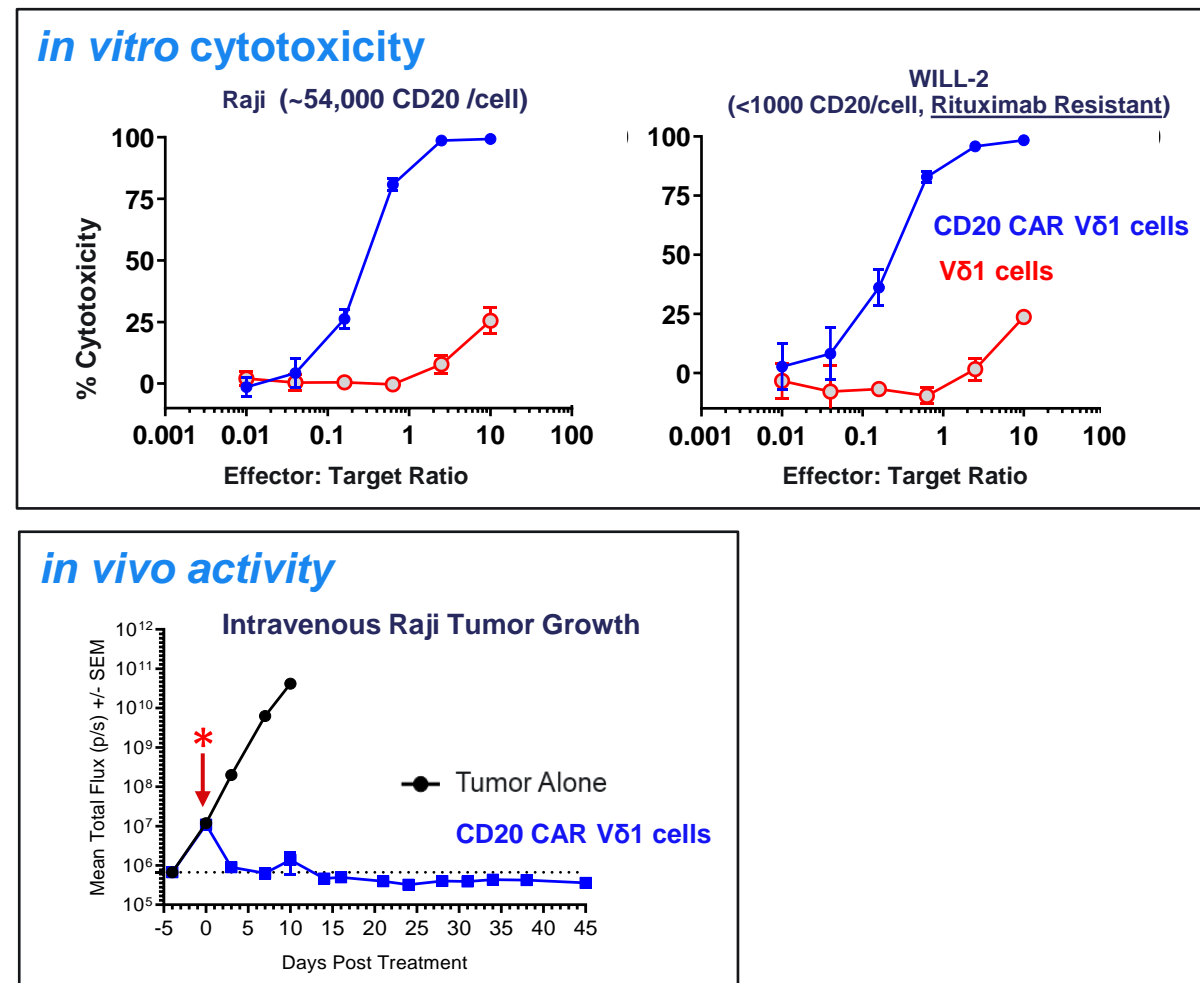
First in Human Study for ADI-001 (CD20 $\gamma\delta$ CAR T cells)

Francesco Galimi, M.D., Ph.D.
Chief Medical Officer



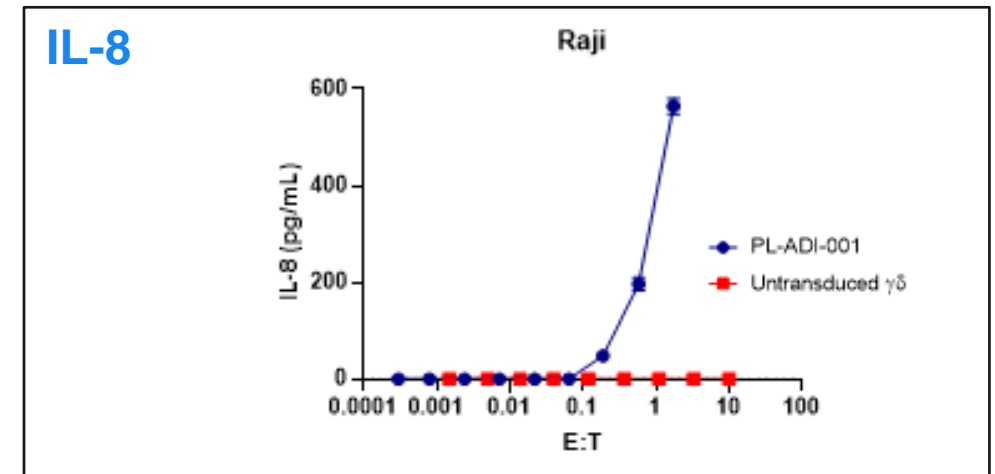
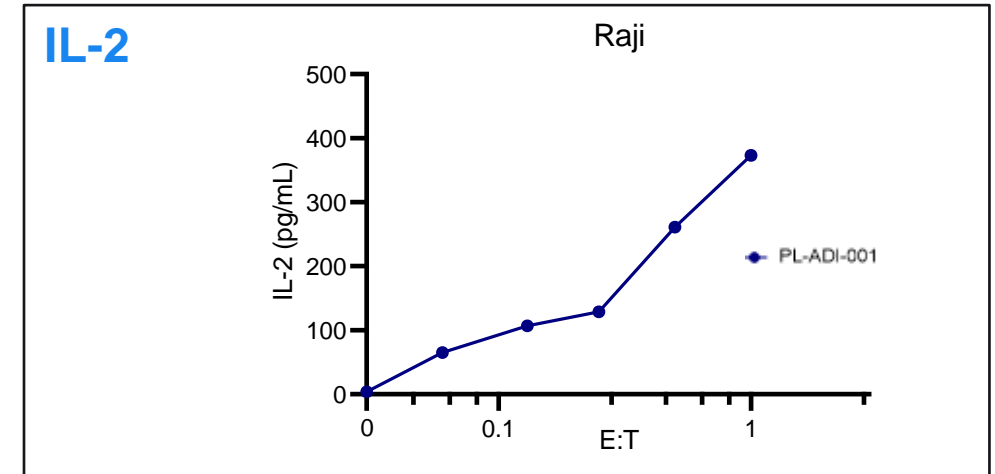
ADI-001 Demonstrated CD20-Targeted Activity Against Tumors

- In pre-clinical studies, ADI-001 effectively targeted CD20+ cancer cells with high potency
- CD20 targeting moiety does not compete with rituximab and is engineered to retain potency in rituximab-resistant cancers where CD20 is downregulated
- Potency of the CD20 CAR is complemented by killing through innate cytotoxicity receptors, including NKG2D
- Together, ADI-001 has demonstrated significant and durable *in vivo* anti-tumor activity



Cytokine Profile for ADI-001 Cancer Cell Engagement and Activation

- ADI-001 activation and cytotoxicity against CD20+ lymphoma cells is accompanied by secretion of polyfunctional cytokines
- These include secretion of IL-2 & IL-8
- Notably, IL-6 is not commonly a component of the cytokine profile for ADI-001 activation

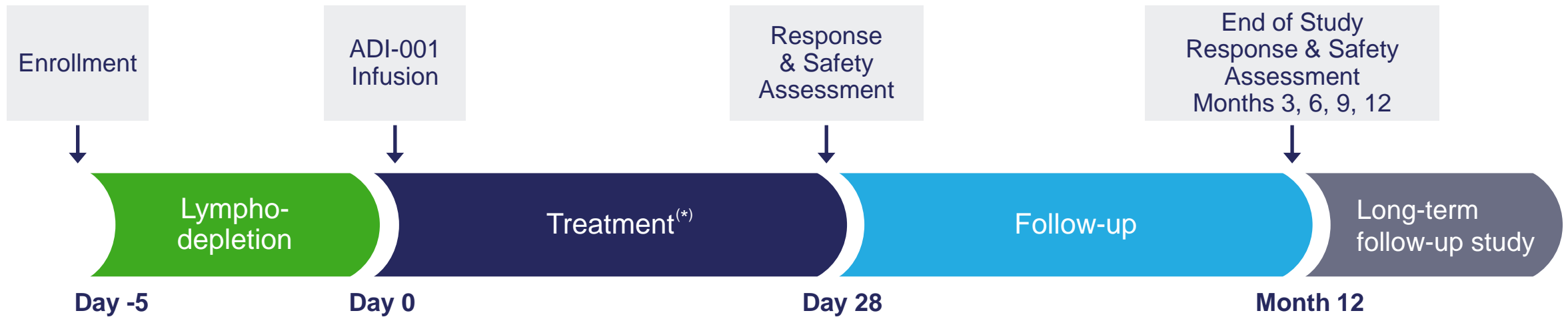


First Clinical Experience: Allogeneic $\gamma\delta$ CAR T Investigational Therapy

Today we will discuss ADI-001's:

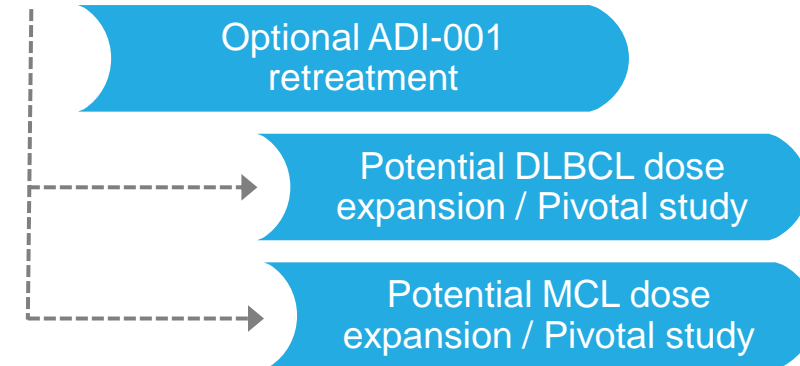
- Initial safety profile for 1st allogeneic $\gamma\delta$ CAR T cell investigational therapy
- Initial evidence of cell expansion in patients
- Initial evidence of pharmacodynamic engagement
- Complete and near-complete responses observed starting at ADI-001's lowest dose level (30M CAR+ cells)
 - Yescarta - 30M CAR+ cells is approximately 5X lower than the approved dose for Yescarta (an autologous CD19 $\alpha\beta$ T cell therapy)
 - CAR NK Cell therapy - 30M CAR+ cells is the first dose level in a CD19 CAR NK cell therapy study where one PR was observed out of three evaluable patients

GLEAN-1: ADI-001 FIH Study (CD20 $\gamma\delta$ CAR T cells)



Phase 1 study design

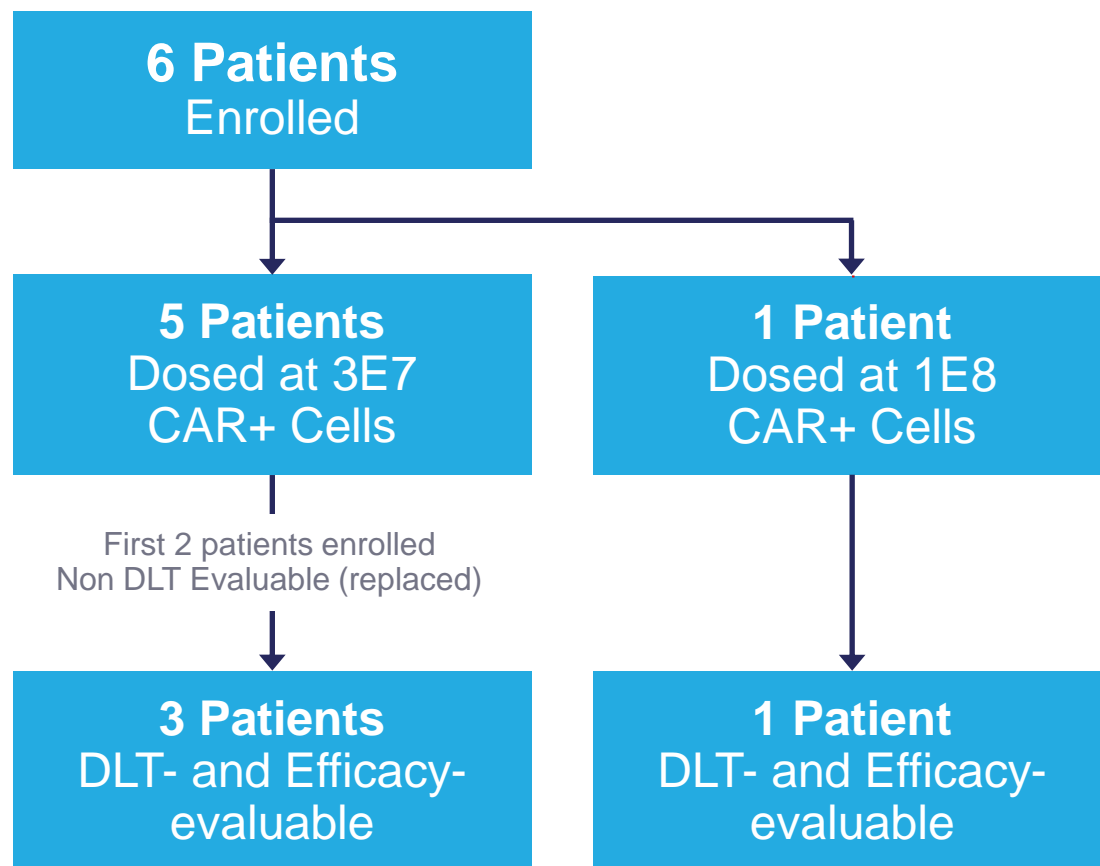
- NHL patients relapsing from 2 or more prior lines of treatment
- 3 cohorts expected for dose escalation/safety: 3E7, 1E8 and 3E8 CAR+ cells
- Up to 50 patients at the selected dose



Lymphodepletion Regimen: Flu/Cy
Fludarabine: 30 mg/m²/d x 3 days, Cyclophosphamide 500 mg/m²/d x 3 days
Protocol allows for enhanced lymphodepletion regimen

First Patient First Dose: May 2021

ADI-001 FIH Study: Patient Disposition



- Safety Subset: 6 patients
- Efficacy Subsets: 4 patients
 - 3 patients at 3E7 CAR+ cells (starting dose level)
(2 patients received standard lymphodepletion and 1 received enhanced lymphodepletion)
 - 1 patient at 1E8 CAR+ cells
(1 received enhanced lymphodepletion)

Note:

The **safety subset** includes all patients who received ADI-001

The **efficacy subset** includes all patients who completed at least one response assessment

ADI-001 FIH Study: Patient Characteristics

Cancer Type	Age/ Sex	Prior Therapies	sLD or eLD	ADI-001 CAR + Cells	Prior CAR T?	DLT eval?	DLT	Stage
Transformed DLBCL (from CLL)	62/F	5 prior lines with PD as best response, including: <ul style="list-style-type: none"> • R-CHOP • rituximab-abbs, gemcitabine, and CDDP • rituximab-abbs, gemcitabine, carboplatin • polatuzumab + BR x 2 • obinutuzumab - hyper cyclophosphamide and dexamethasone 	sLD	3E7 cells	No	Yes	No	IV
Transformed high grade B cell tumor (from FL)	66/F	4 prior lines: <ul style="list-style-type: none"> • R-CHOP • ibrutinib • bendamustine/rituximab • rituximab 	sLD	3E7 cells	No	Yes	No	IV
DLBCL	75/M	5 prior lines: <ul style="list-style-type: none"> • R-CHOP; IT MTX • liso-cel • liso-cel (reinfusion) • revlimid • tafasitamab-cxix 	eLD	3E7 cells	Yes	Yes	No	IV
MCL	62/M	5 prior lines: <ul style="list-style-type: none"> • bendamustine/rituximab • zanubrutinib • bendamustine/obinutuzumab • bendamustine/rituximab • rituximab/gemcitabine/dex/carboplatin 	eLD	1E8 cells	No	Yes	No	IV
First 2 patients enrolled did not complete DLT period and were replaced per protocol:								
Primary Refractory Burkitt	29/M	3 prior lines with PD as best response: <ul style="list-style-type: none"> • R-CODOX-M/R-IVAC • cy/flu/rituximab + FT516 Trial • R-EPOCH 	sLD	3E7 cells	No	No	N/A	IV
Double hit DLBCL	52/M	5 prior lines, including: <ul style="list-style-type: none"> • DA-EPOCH R with IT MTX/ARA-C • R-ICE • polatuzumab/rituximab • tisagenlecleucel • gemcitabine/oxliplatin 	sLD	3E7 cells	Yes	No	N/A	IV

- All patients heavily pre-treated, with at least 3 prior lines of systemic therapy
- Disease measured by Lugano 2014
- Enrolled multiple subtypes of NHL
- 2 patients had received prior autologous CD19 CAR T

Lymphodepletion:

Standard (sLD): fludarabine (30 mg/m²/day for 3 days) plus cyclophosphamide (500 mg/m²/day for 3 days)

Enhanced (eLD): fludarabine (30 mg/m²/day for 4 days) plus cyclophosphamide (1000 mg/m²/day for 3 days)

ADI-001 FIH Study: Safety Profile

TEAE	All Grades (%)	Grade 3+ (%)
IRR	- (0%)	- (0%)
CRS	3 (50%)	- (0%)
ICANS	- (0%)	- (0%)
GvHD	- (0%)	- (0%)
Infection*	2 (33%)	1 (17%)

- N = 6
- No DLTs
- No ICANS
- No GvHD
- No Grade 3+ CRS

* One patient with COVID-19 infection Grade 2 and pneumonia Grade 3; one patient with candida Grade 1

ADI-001 FIH Study: Responses in Efficacy-Evaluable Patients

Status	Cancer Type	Age/ Sex	Prior Therapies	sLD or eLD	ADI-001 CAR+ Cells	Prior CAR T?	DLT eval?	DLT	Stage	Best Response
Off Study	Transformed DLBCL (from CLL)	62/F	5 prior lines with PD as best response, including: <ul style="list-style-type: none"> • R-CHOP • rituximab-abbs, gemcitabine, and CDDP • rituximab-abbs, gemcitabine, carboplatin • polatuzumab + BR x 2 • obinutuzumab - hyper cyclophosphamide and dexamethasone 	sLD	3E7 cells	No	Yes	No	IV	PD
Off study	Transformed high grade B cell tumor (from FL)	66/F	4 prior lines: <ul style="list-style-type: none"> • R-CHOP • ibrutinib • bendamustine/rituximab • rituximab 	sLD	3E7 cells	No	Yes	No	IV	PR (near CR)
Active	DLBCL	75/M	5 prior lines: <ul style="list-style-type: none"> • R-CHOP; IT MTX • liso-cel • liso-cel (reinfusion) • revlimid • tafasitamab-cxix 	eLD	3E7 cells	Yes	Yes	No	IV	CR
Active	MCL	62/M	5 prior lines: <ul style="list-style-type: none"> • bendamustine/rituximab • zanubrutinib • bendamustine/obinutuzumab • bendamustine/rituximab • rituximab/gemcitabine/dex/carboplatin 	eLD	1E8 cells	No	Yes	No	IV	CR

ORR = 3/4 patients (75%)

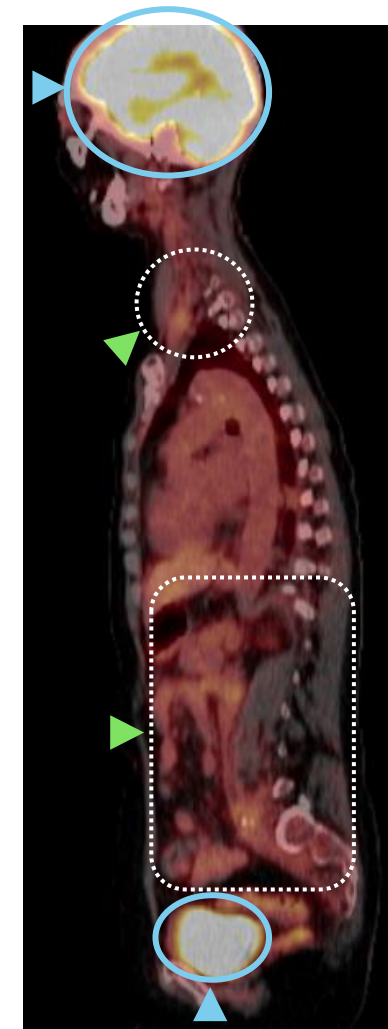
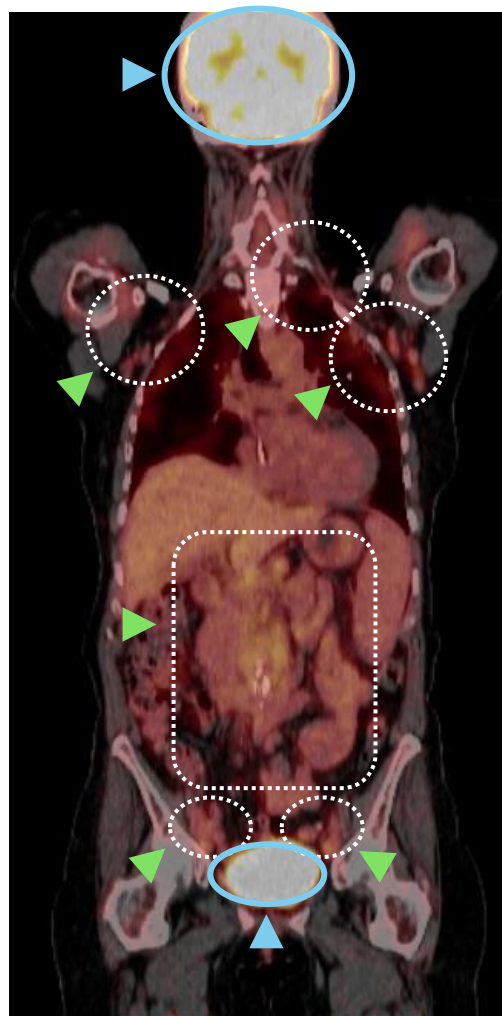
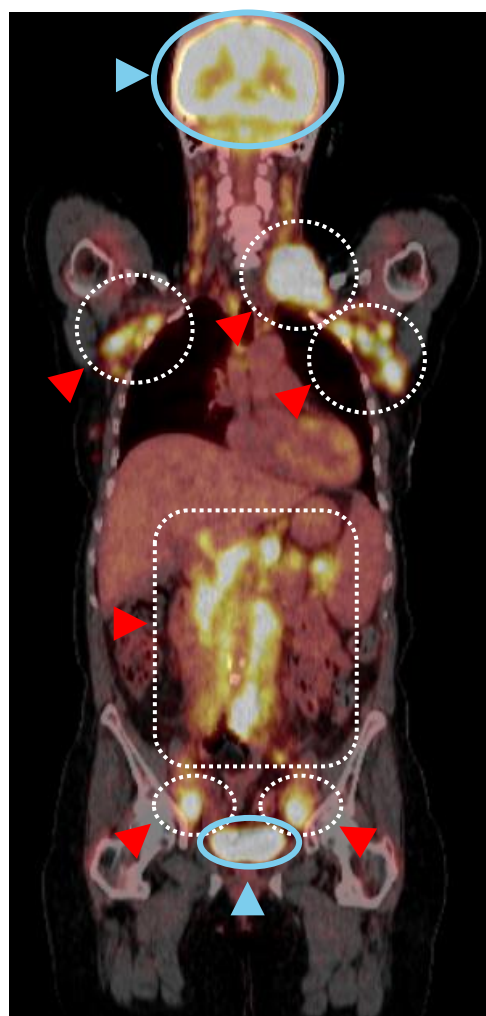
CR = 2/4 patients (50%)

ADI-001 FIH Study: Dose Level 1 (30M Cells) Near Complete Response

- 66 yo female
- Transformed high grade B cell tumor (from FL)
- 4 prior lines
- ADI-001 dose: 3E7 CAR+ cells

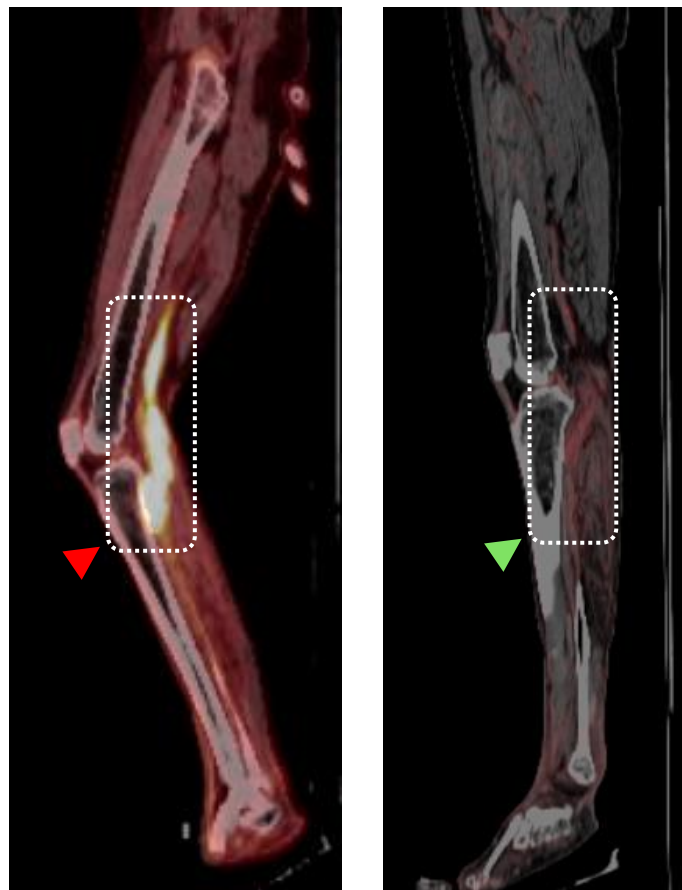
Baseline: 12-Aug-2021
D28: 29-Sep-2021

- ▶ *FDG uptake by normal tissues
- ▶ Baseline FDG uptake by tumor lesions
- ▶ Sites of tumor response



ADI-001 FIH Study: Dose Level 1 (30M Cells) Complete Response

Sagittal view of the right leg



Baseline

D28

- 75 yo male
- Diffuse Large B-Cell Lymphoma
- 5 prior lines, including anti-CD19 CAR T
- ADI-001 dose: 3E7 CAR+ cells

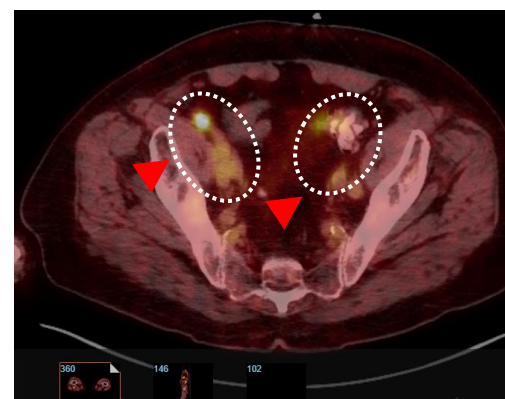
Baseline: 8-Sep-2021

D28: 29-Sep-2021

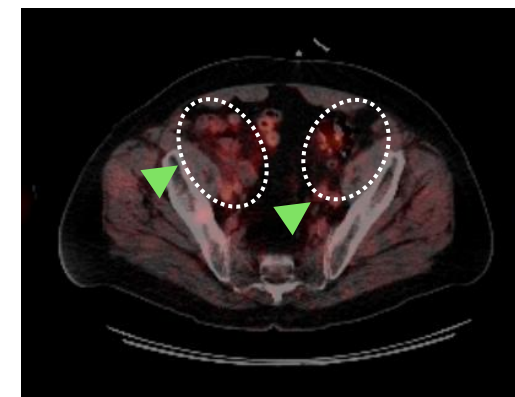
▶ Baseline FDG uptake by tumor lesions

▶ Sites of tumor response

Transverse view of the pelvis



Baseline



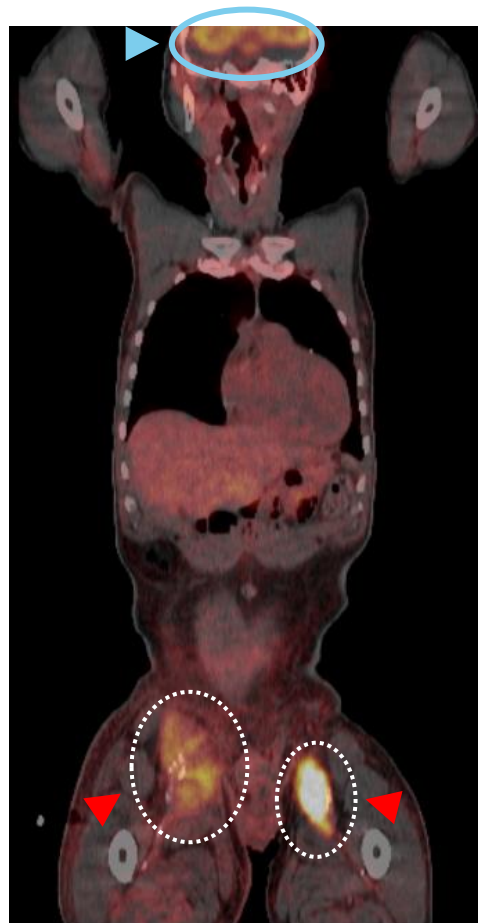
D28

ADI-001 FIH Study: Dose Level 2 (100M Cells) Complete Response

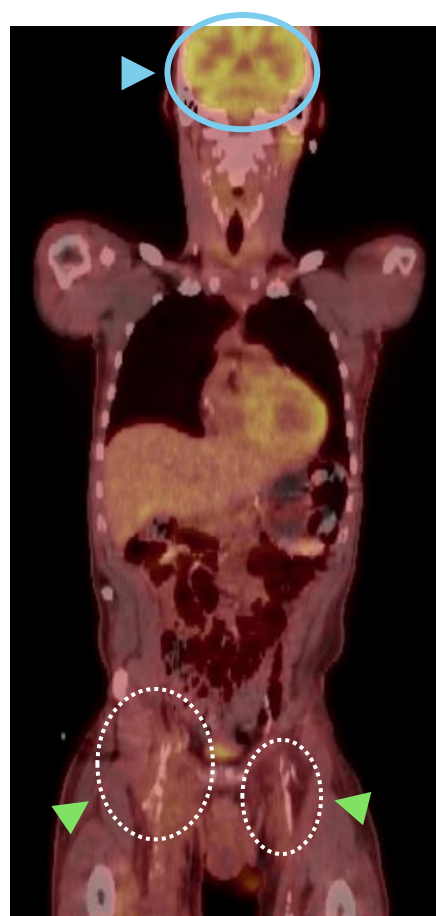
- 62 yo male
- Mantle Cell Lymphoma
- 5 prior lines
- ADI-001 dose: 1E8 CAR+ cells

Baseline: 8-Oct-2021
D28: 19-Nov-2021

- ▶ FDG uptake by normal tissues
- ▶ Baseline FDG uptake by tumor lesions
- ▶ Sites of tumor response

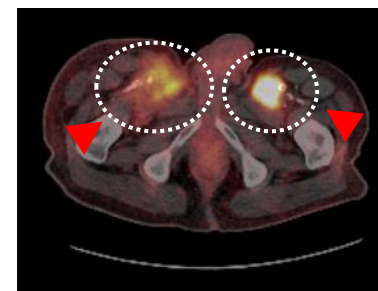


Baseline

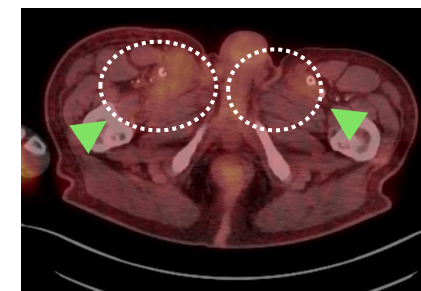


D28

Transverse view



Baseline



D28

ADI-001 FIH Study: *In Vivo* Expansion and Pharmacodynamic Biomarkers Consistent with ADI-001 Activation Was Observed

- Consistent increase in IL-15 during 28-day window following lymphodepletion, potentially providing additional cytokine support for the proliferation of ADI-001
- Detection of circulating ADI-001 in the blood by flow cytometry and qPCR indicates expansion of ADI-001 in patients
- Cytokine production, primarily IL-2 and IL-8, observed during the first 14 days from ADI-001 dosing, consistent with observed time-to-peak for similar cytokines for autologous alpha-beta T cells and consistent with activation profile for ADI-001
- No meaningful increase in IL-6, except for one patient during COVID-19 infection, suggesting potentially reduced likelihood for high grade CRS and ICANS

Preliminary data provide evidence of ADI-001 cell proliferation, *in vivo* expansion, target engagement, and anti-tumor activity

ADI-001 FIH Study: Summary

- ADI-001 administration was generally well tolerated in the initial part of the dose escalation; in patients treated to date there were no GvHD, neurotoxicity, or high-grade CRS reported
- Of the four efficacy-evaluable patients, one achieved a near complete response and two achieved a complete response (ORR = 75%, CR = 50%)
- Complete and near-complete responses observed starting at ADI-001's lowest dose level (30M CAR+ cells), including a CR in a CAR T relapsed patient
- Preliminary data provide evidence of ADI-001 cell proliferation, *in vivo* expansion, target engagement, and anti-tumor activity
- Next data update expected in H1 2022
- Potential expansion cohorts in patients relapsing after autologous CD19 CAR T and in NHL subtypes (DLBCL, MCL, FL)

Opportunities Offered by Gamma Delta T Cell therapy

*Sattva Neelapu, M.D.,
MD Anderson Cancer Center*



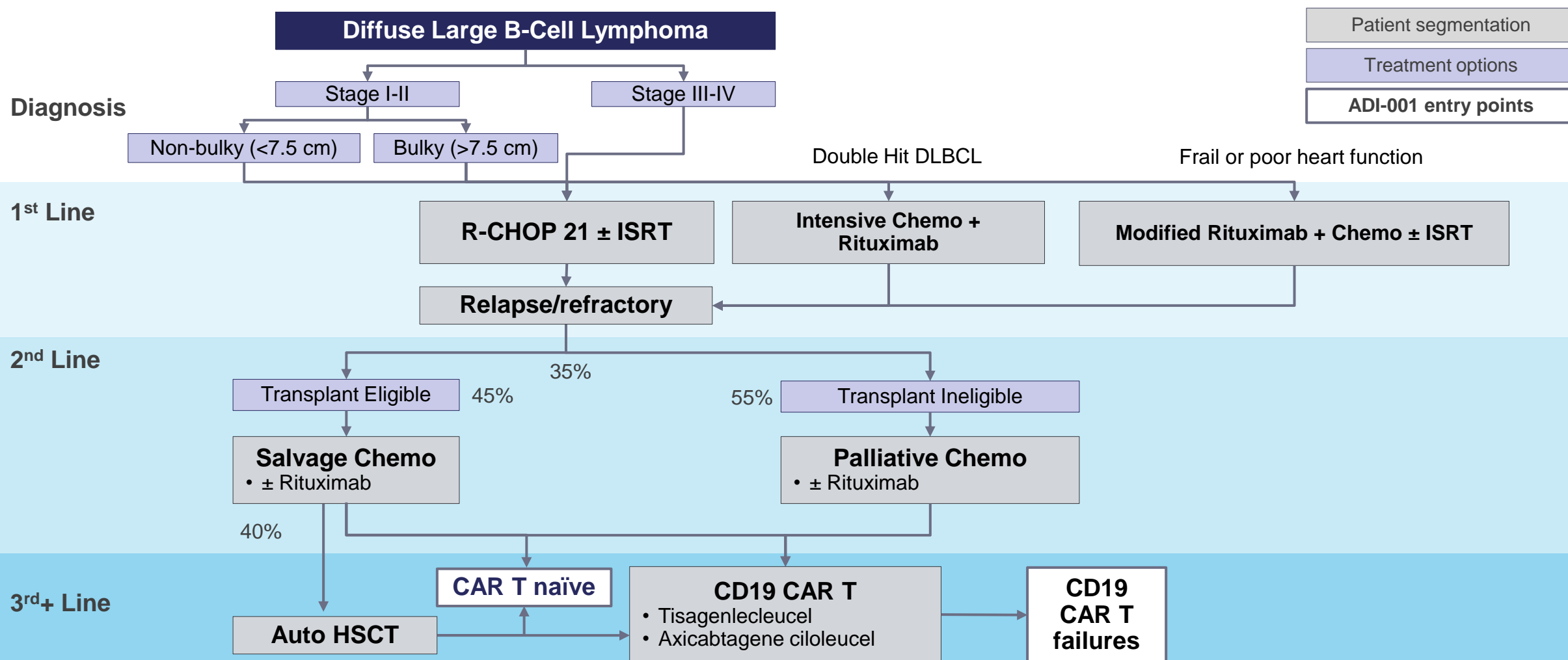
Rationale for Allogeneic $\gamma\delta$ CAR T-Cell Therapy

- Potential to benefit from CAR, adaptive and innate anti-tumor immune response
- Potential for reasonable safety profile
 - Long-term risk of mutagenesis unlikely given no requirement for gene editing
 - Potentially lower risk for CRS and ICANS
 - Long-term B-cell aplasia and hypogammaglobulinemia unlikely
- Potential to improve efficacy as T-cell fitness is expected to be better than autologous products
- Consistent product quality while eliminating wait period for patients (off-the-shelf alternative)
- Potential to lower the cost of CAR T cell therapy
- Possibly wider access at non-transplant centers

ADI-001: Preliminary Clinical Experience

- High response rate at low dose was measured in patients with bulky disease, including one with prior CAR-T therapy
- Early data seems promising with 75% ORR and 50% CR rate for the first four evaluable patients
- Safety profile seems favorable, no GvHD, no ICANS, and no high-grade CRS reported to date
- Biology of $\gamma\delta$ CAR T cells and initial data from first four evaluable patients may support favorable durability:
 - Complementary innate, adaptive, and CAR-T mediated antitumor effects
 - Combination of multiple mechanisms may improve durability and minimize emergence of tumor resistance

DLBCL Detailed Treatment Algorithm



MCL Treatment Algorithm

Diagnosis

Newly Diagnosed Mantle Cell Lymphoma

Stage I or non-bulky Stage II

Stage II bulky or Stage III-IV

1st Line

Induction Chemoimmunotherapy

Transplant Ineligible

Transplant Eligible

80%

Maintenance Rituximab

Auto HSCT

20%

2nd + Line

Chemotherapy ± Rituximab

CD19 CAR T

**CD19 CAR T
failures**

Patient segmentation

Treatment options

ADI-001 entry points

Wrap Up

Chen Schor, President and CEO



Adicet Bio: Leaders in Engineered $\gamma\delta$ CAR T Cell Therapy

- First and only off-the-shelf $\gamma\delta$ CAR T cell investigational therapy to report clinical data
- Complete and near-complete responses observed starting at ADI-001's lowest dose level, including a CR in a CAR T relapsed patient
- Favorable safety profile to-date with ADI-001
- Evidence of *in vivo* expansion and circulating pharmacodynamic biomarkers consistent with ADI-001 activation
- Adicet allogeneic $\gamma\delta$ CAR T cell investigational therapy may offer:
 - CAR, innate and adaptive mediated anti-tumor activity; More limited ability for tumor escape
 - No requirement for gene-editing
- \$192.2M cash, cash equivalents & marketable securities (09/30/21)
- Multiple near-term milestones, including ADI-001 clinical update in H1 2022

Building a Broad Pipeline of First in Class $\gamma\delta$ CAR T Cell Therapy

Program	Target	Potential Indication	Discovery	Preclinical	IND	Ph 1	Ph 2	Ph 3 / Commercial	Anticipated Milestone
ADI-001	CD20	NH Lymphoma							Additional Clinical Data: H1'22
ADI-002	GPC3	HCC							File IND: Q2'22
ADI-003	Undisclosed	Solid and Heme							File IND: 2023
ADI-00x	Undisclosed	Solid / Heme							File IND: 2024
ADI-00x	Undisclosed	Solid / Heme							File IND: 2025

Potential Upcoming Milestones

ADI-001

- Phase 1 NHL clinical update H1'22
- Identify RP2D (recommended Ph2 dose)
- Initiation of expansion study in patients relapsing after autologous CD19 CAR T*
- Initiation of expansion studies in NHL subtypes (DLBCL, MCL, FL)*

ADI-002

- File IND for GPC3+ tumors
- Initiation of Phase 1 in HCC, squamous cell carcinoma of the lung, other GPC3+ tumors

Expand $\gamma\delta$ CAR T pipeline

- New clinical program every 12-18 months



Leaders in $\gamma\delta$ CAR T Cell Therapy

