

Data from Cohort C of the Phase 1 ALLOHA™ Study

June 2026



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TScan is a fully integrated, next-generation TCR-T cell therapy company

Clinical

HEME MALIGNANCY PROGRAM

- Designed to treat residual disease and prevent relapse in patients undergoing bone marrow transplant
- TSC-101 continues to be well-tolerated
- **Durable long-term data for TSC-101: 100% (2/2) of patients 3-years post-HCT and 71% (5/7) of patients 2-years post-HCT show detectable TSC-101 cells and no evidence of disease vs. 0% (0/3) and 43% (3/7), respectively, on the control arm.**⁽¹⁾
- **Treated 14 patients** using commercial-ready manufacturing process in Cohort C of ALLOHA trial with promising initial data that supports expected **launch of pivotal study** in Q2 2026
- **INDs for TSC-102-A01 and TSC-102-A03 cleared** providing path to double addressable market. Phase 1 study expected to begin in **Q4 2026**

Preclinical

SOLID TUMOR PROGRAM

- TCR-Ts for PRAME and MAGE-A4 in preclinical development using an *in vivo-engineering* platform
- Recent FDA INTERACT feedback established a roadmap for filing INDs by mid-2027

Discovery

AUTOIMMUNITY PROGRAM

- Targets identified for systemic sclerosis, ulcerative colitis, ankylosing spondylitis, and birdshot uveitis⁽²⁾
- Novel targets leveraged to generate first-in-class T-cell depleting therapies
- Lead program in preclinical development for AS & spondyloarthropathies

\$128.1M as of March 31, 2026 funds operations into H2 2027

Agenda

Overview of Heme Program and Manufacturing Update

Gavin MacBeath, Ph.D.

Updated Data from Cohort C of Phase 1 ALLOHA™ Trial

Gavin MacBeath, Ph.D., Ran Reshef, M.D., M.Sc.

Phase 3 Trial Design (ALLOHA-2)

Chrystal Louis, M.D., M.P.H.

Market Opportunity for TSC-101 and Follow-on Product Candidates

Gavin MacBeath, Ph.D., Ran Reshef, M.D., M.Sc.

Q&A Session

Gavin MacBeath, Dr. Reshef, Chrystal Louis, and Shrikanta Chattopadhyay, M.D.

Heme Malignancies:

*Targeting residual disease to prevent relapse
in patients undergoing allogeneic HCT*

TScan is working to treat residual disease and prevent relapse in heme malignancies

Current Standard of Care

Allogeneic hematopoietic cell transplant (Allo-HCT) is the only potential cure for patients with AML and MDS

Unmet Medical Need

38-44% of patients relapse within two years following Allo-HCT with reduced intensity conditioning (RIC)*

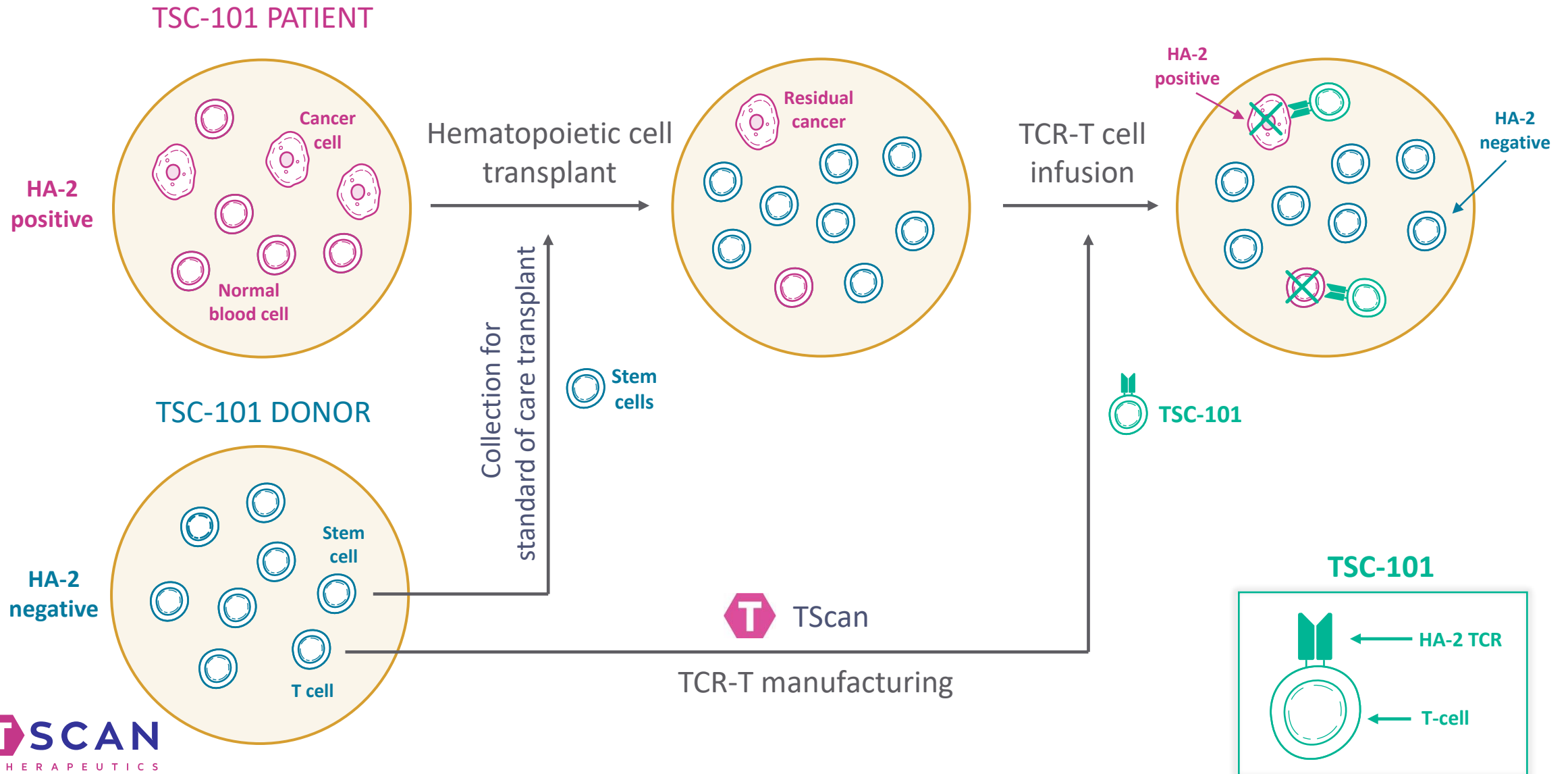
TScan Approach

TCR-T cell therapy that targets antigens on patient cells, but not donor cells, to prevent relapse after transplant

TSC-101 is a TCR-T cell therapy designed to **eliminate residual cancer** and **prevent relapse** following Allo-HCT in HLA-A*02:01-positive patients



TSC-101 is a TCR-T cell therapy designed to eliminate residual cancer and prevent relapse following Allo-HCT

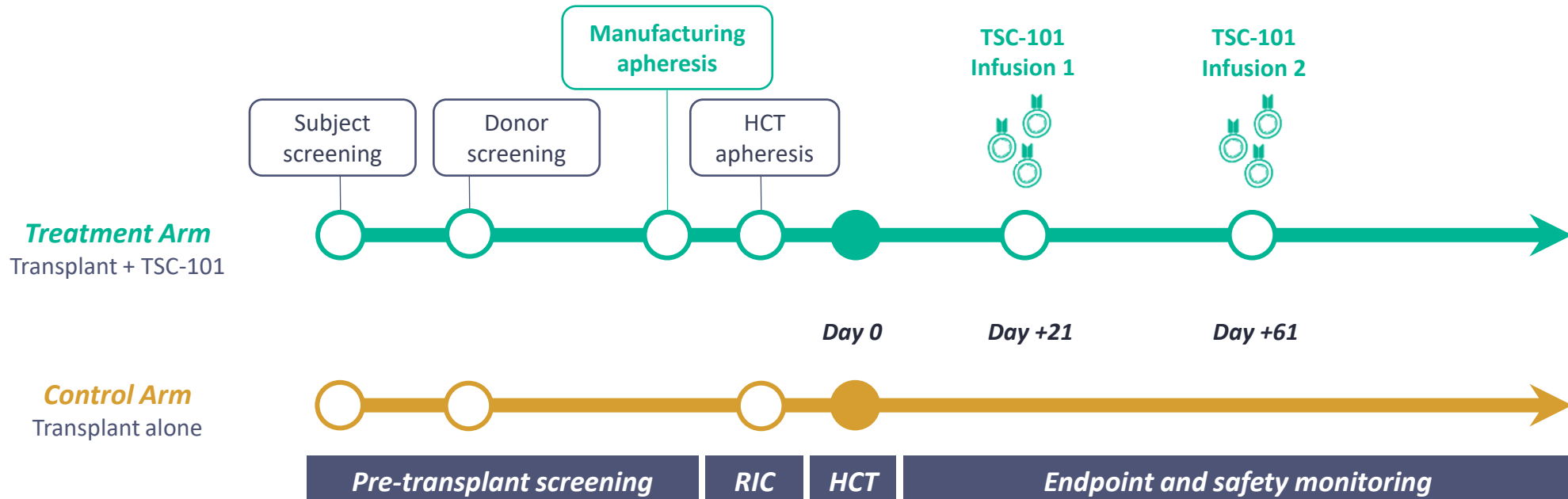


Heme Program: TSC-101

Recap of ASH data



ALLOHA™, a multi-arm Phase 1 trial for TSC-101 in subjects with AML, ALL, and MDS (NCT05473910)



Key eligibility criteria

- Age ≥ 18 years
- Undergoing first allo-HCT for ALL, AML, MDS
- Subject positive for HA-2 with a haploidentical HA-2 negative donor
- Eligible for RIC-HCT followed by PTCy for GvHD prophylaxis

Key endpoints

- Safety: Dose limiting toxicities, adverse events
- Efficacy
- Exploratory endpoints: Donor chimerism, minimal residual disease

ALLOHA™ Phase 1 data support launch of pivotal trial in Q2 2026



Attractive safety profile

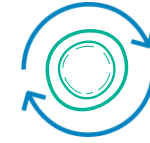
Infusions with TSC-101 were **well-tolerated with no DLTs** and adverse events following HCT + TSC-101 were consistent with HCT alone*



Meaningful long-term benefit

More TSC-101-treated patients remain relapse-free >1-year post-HCT vs control arm[#]

- **100% (2/2)** vs 0% (0/3) on control arm at **3-years**
- **71% (5/7)** vs 43% (3/7) on control arm at **2-years**
- **71% (12/17)** vs 54% (7/13) on control arm at **1-year**



Long-term persistence

TSC-101 identified in all treated patients, including those **3-years post HCT**

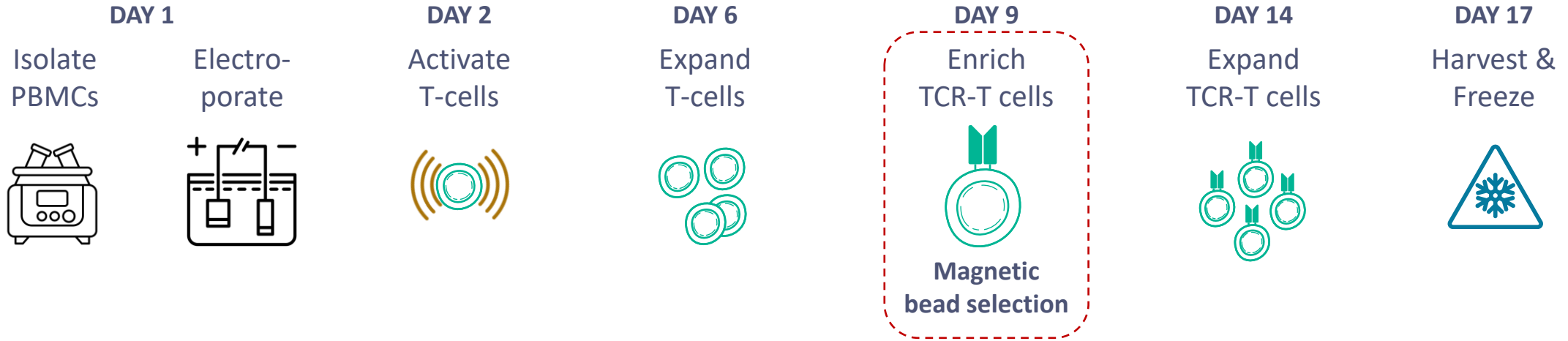
Reached agreement with FDA on pivotal trial design

Heme Program Update:

Patients infused with TSC-101 manufactured with commercial ready process (Cohort C)

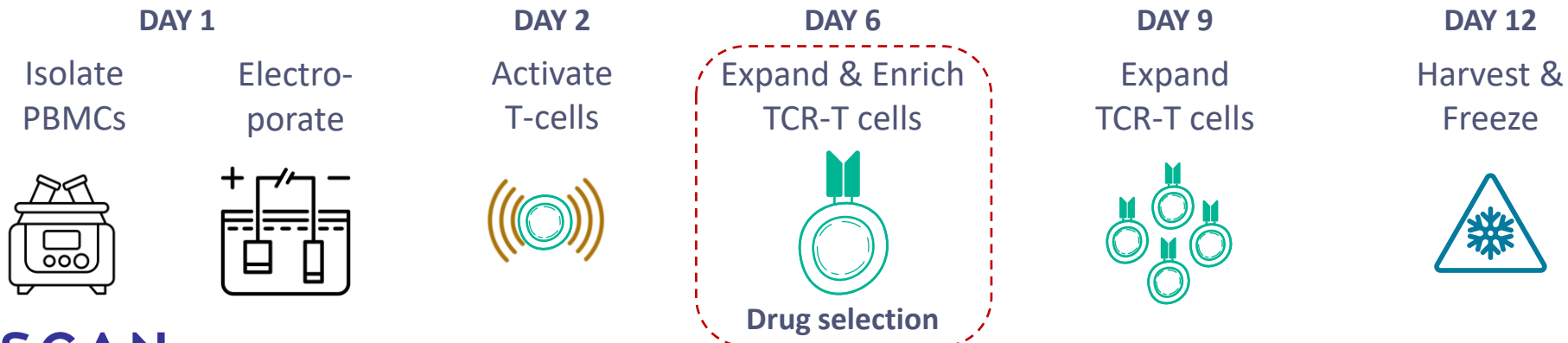
Optimized manufacturing process results in robust production with shorter time and lower COGs

Phase 1 Process: 17 Days



Inefficient step: >90% loss of TCR-T cells

Commercial-ready Process: 12 Days



Highly efficient step: minimal loss of TCR-T cells

Patients are generally well balanced across arms, although Cohort C included a higher percentage of patients with MRD-positive disease prior to transplant

		TSC-101 Cohort A	TSC-101 Cohort C	Control
Evaluable Subjects*		19	14	19
Age, Median years (Range)		65 (52-74)	68 (28-79)	66 (23-77)
Sex, Male		13 (68%)	9 (64%)	9 (47%)
Underlying Disease	ALL	2 (11%)	1 (7%)	1 (5%)
	AML	13 (68%)	8 (57%)	10 (53%)
	MDS	4 (21%)	5 (36%)	8 (42%)
TP53 mutated		6 (32%)	3 (21%)	4 (21%)
MRD-positive pre-HCT		12 (63%)	9 of 12 (75%)	10 (53%)
Donor type	Haplo	19 (100%)	9 (64%)	18 (95%)
	MMUD	--	5 (36%)	1 (5%)
Mixed chimerism post-HCT (~D21)		11 of 18 (61%)	12 of 14 (86%)	13 of 17 (76%)

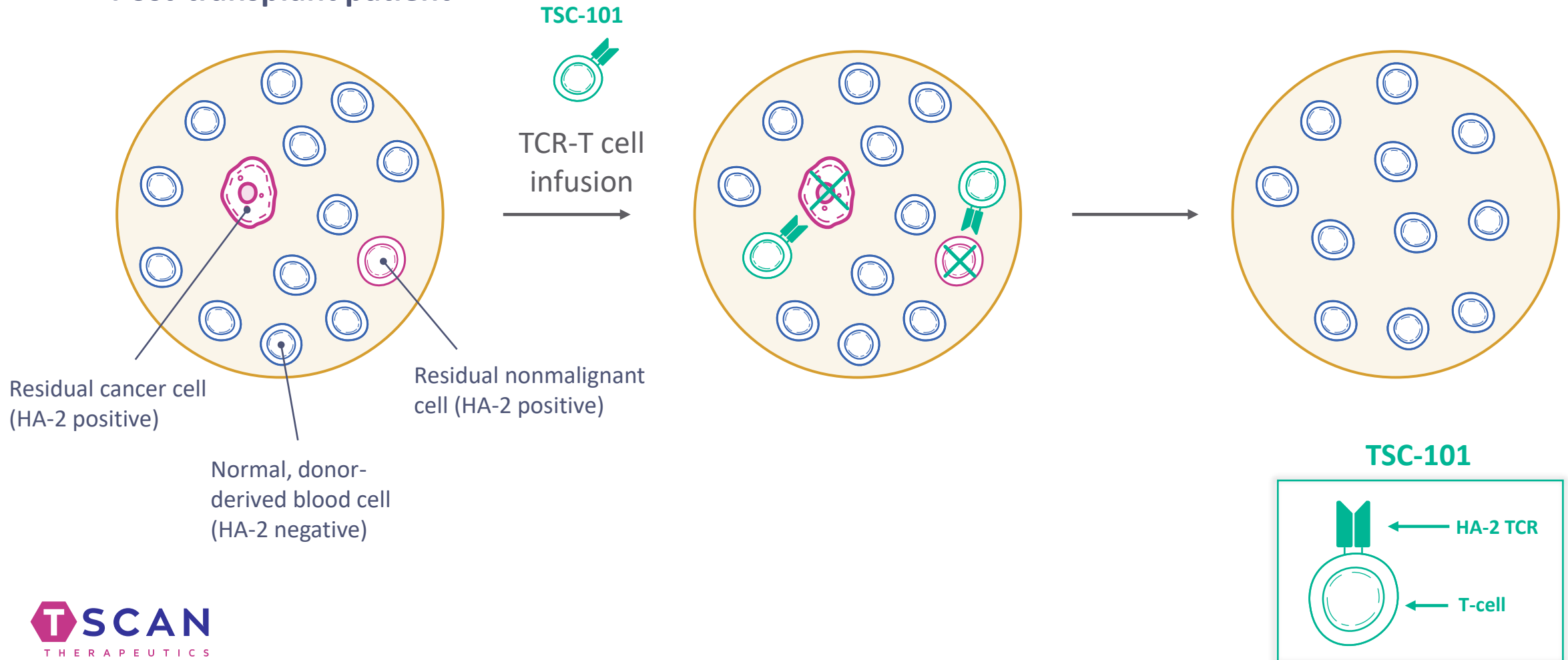
TSC-101 continues to be well-tolerated in Cohort C

	TSC-101 Cohort C n=14	Control* n=19
Treatment-emergent aGvHD (MAGIC)	2 (14%)	12 (63%)
Grade I	1 (7%)	6 (32%)
Grade II	1 (7%)	5 (26%)
Grade III	0	1 (5%)
Any Treatment-emergent cGvHD (NIH)	1 (7%)	2 (11%)
Mild	1 (7%)	1 (5%)
Moderate	0	1 (5%)
Any CRS	8 (57%)	7 (37%)
Grade 1 - 2	8 (57%)	6 (32%)
Grade 3 - 4	0	1 (5%)
Treatment-emergent CRS	1 (7%)	0
Grade 1 - 2	1 (7%)	0
Grade 3 - 4	0	0
Any ICANS	0	0
Treatment-emergent ICANS	0	0

- Safety has been consistent with Cohort A
- One case of acute respiratory distress syndrome (ARDS) with TSC-101
 - G4 ARDS 13 days after infusion #1 in patient with G4 kidney injury and HHV6 encephalitis after transplant. Case reviewed by SRC and no changes recommended
- Two cases of acute graft vs host disease (aGvHD)
 - 1 Grade I and 1 Grade II events
- One case of CRS reported after TSC-101 infusions
 - Grade 1 event and resolved

TSC-101 is designed to eliminate residual cancer and prevent relapse following Allo-HCT

Post-transplant patient

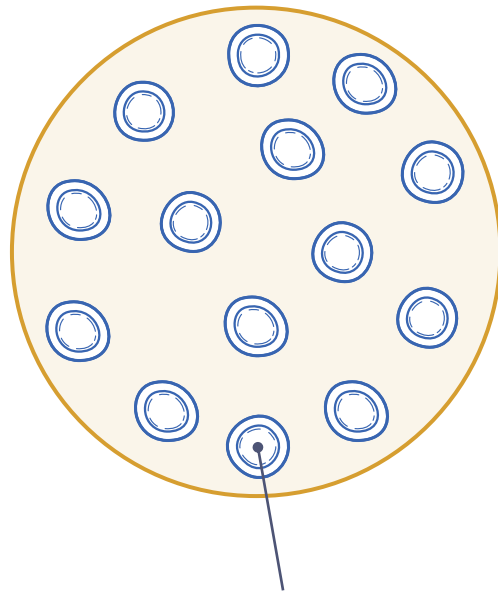


Donor chimerism serves as an early surrogate of efficacy

Post-transplant patient

Complete donor chimerism

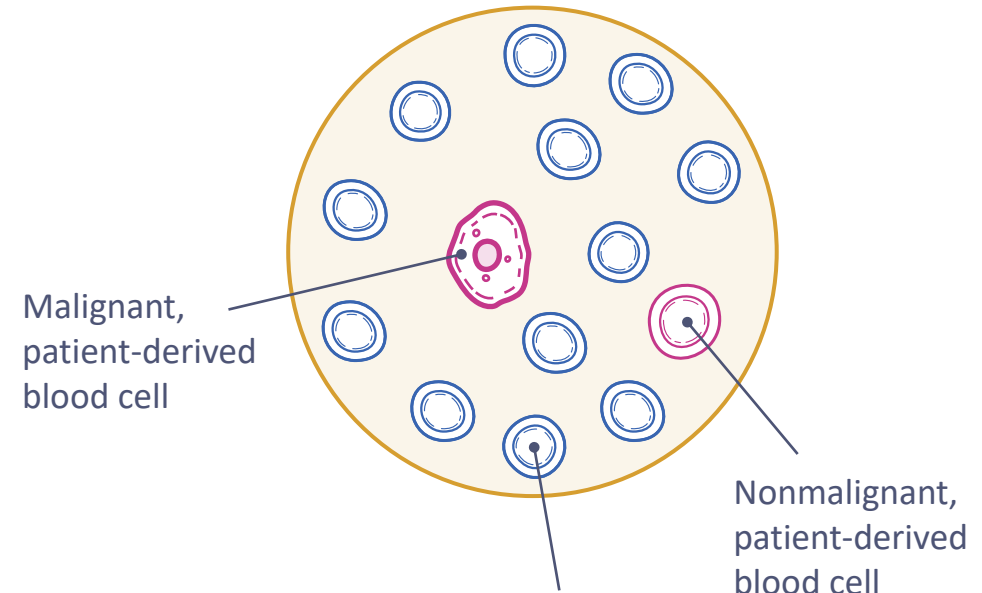
(low risk of relapse^{1,2})



Normal, donor-derived blood cell

Mixed donor chimerism

(increased risk of relapse^{1,2})

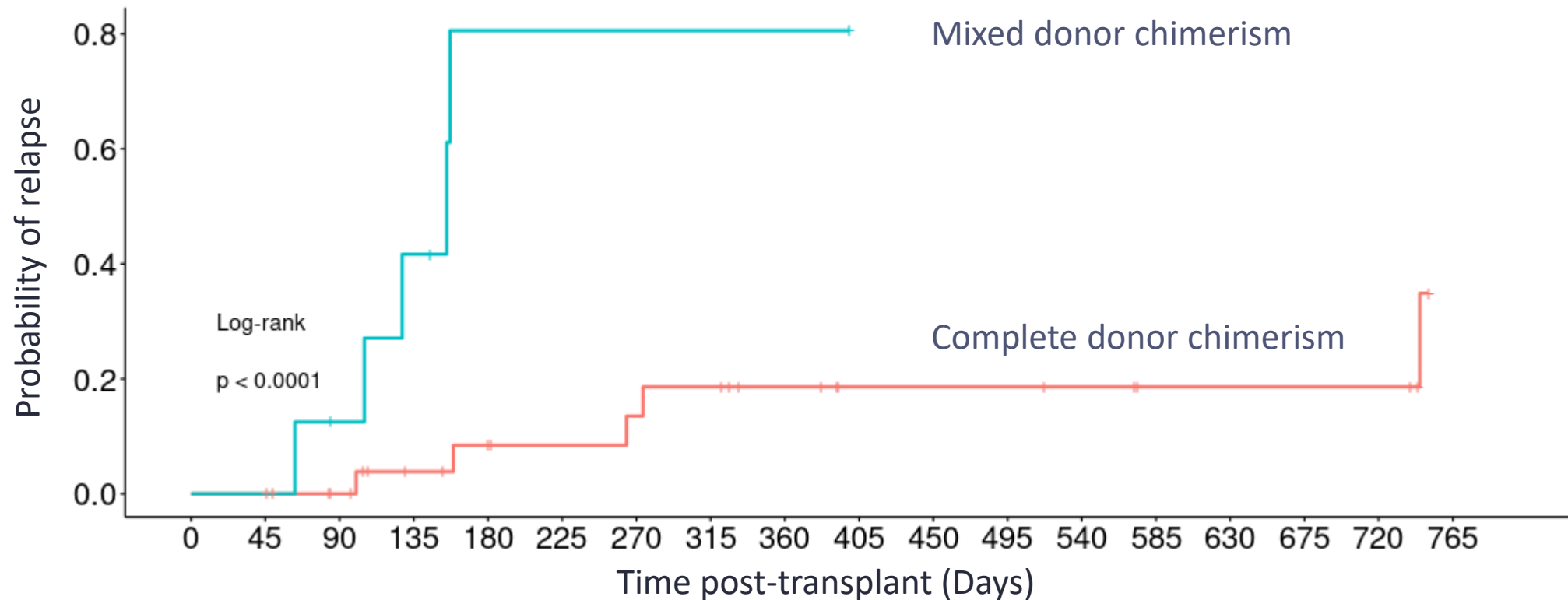


Malignant, patient-derived blood cell

Nonmalignant, patient-derived blood cell

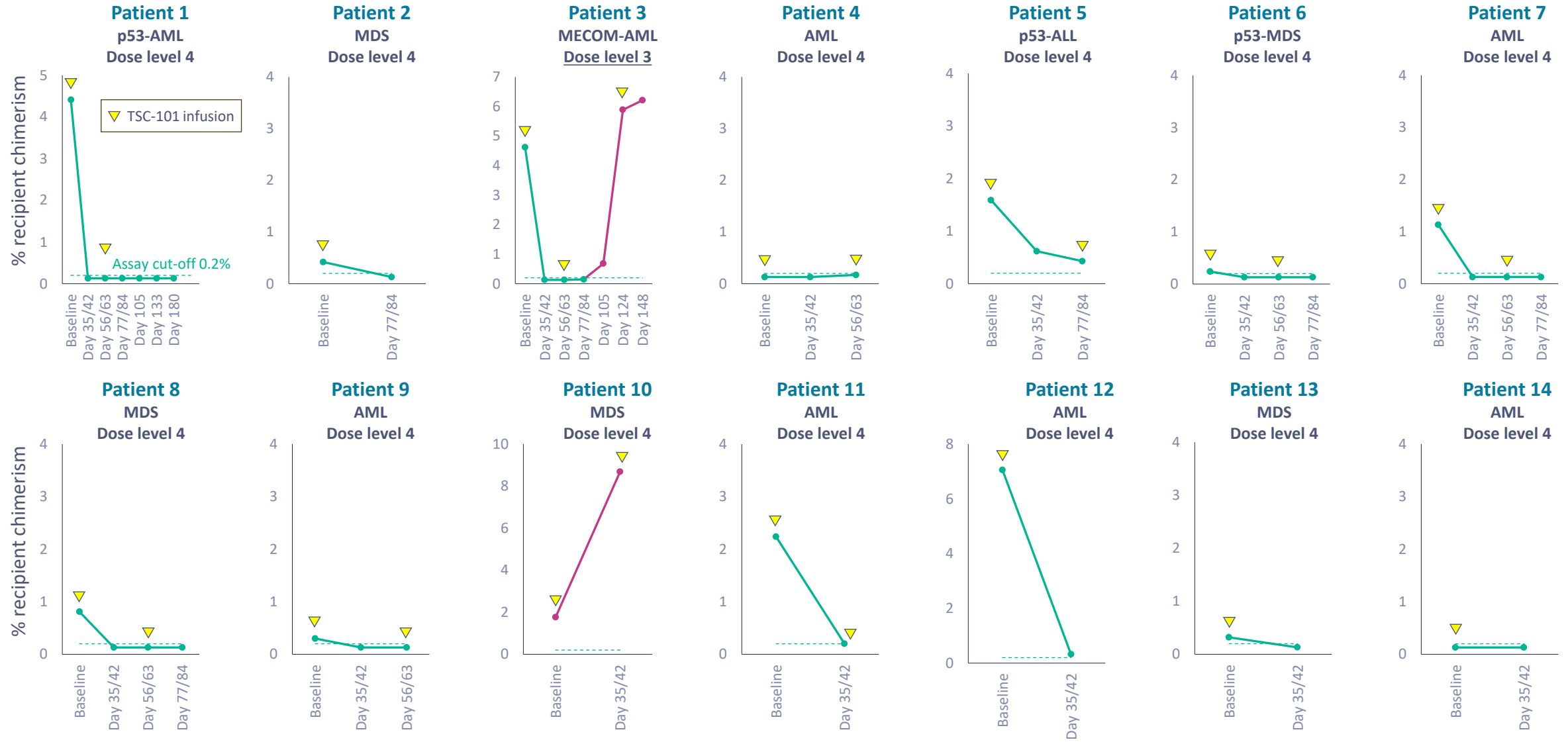
Normal, donor-derived blood cell

Patients with complete donor chimerism using NGS chimerism assay at two months post-transplant have a low probability of relapse



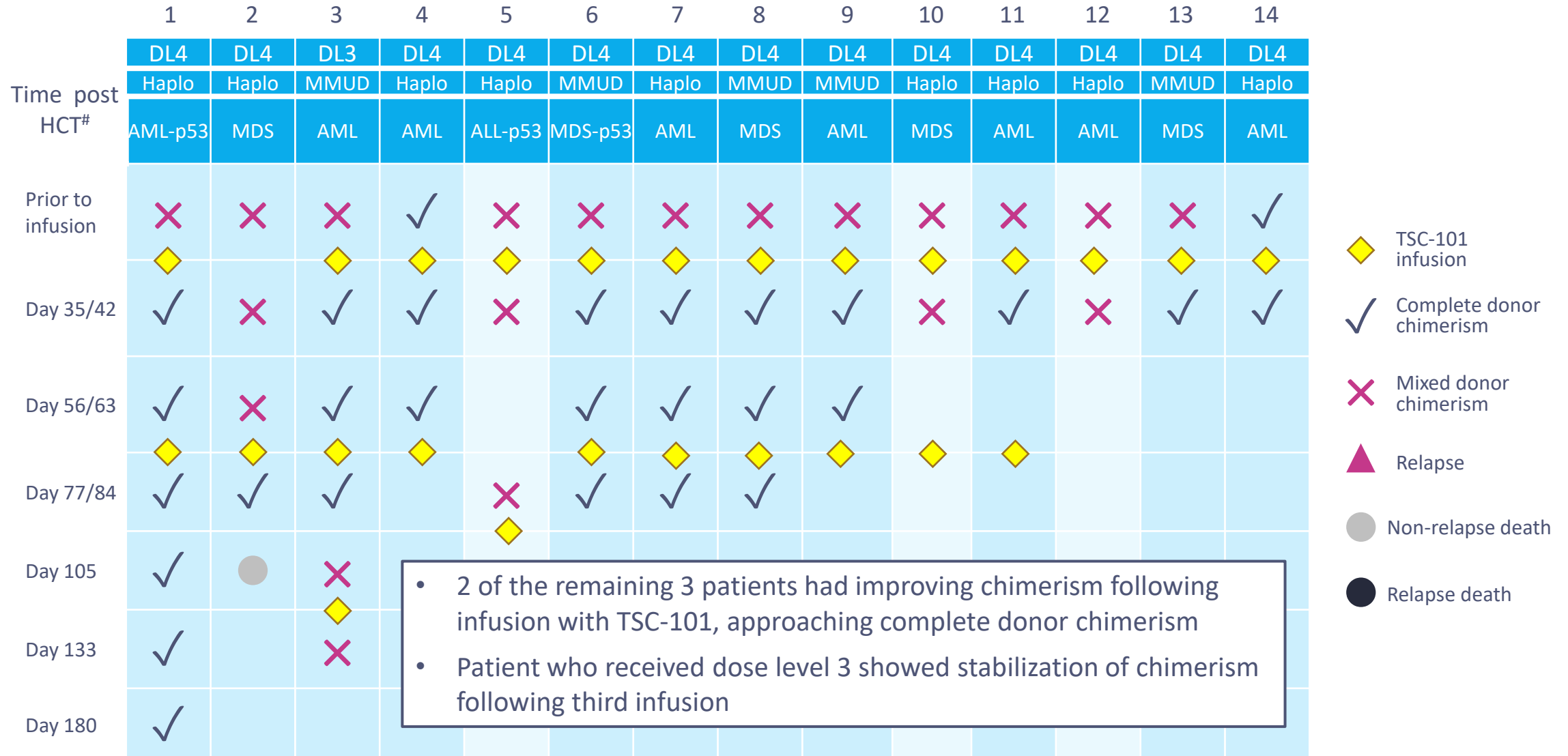
Chimerism status of initial ALLOHA patients at 2 months post-transplant predicts probability of relapse (HR 10.2)

All but one patient in Cohort C (93%) responded to TSC-101 with decreasing recipient chimerism



Donor chimerism results using investigational next-generation sequencing assay (Allohome) with data cut-off of 0.2% at indicated times post-transplant (# ± 3 days)

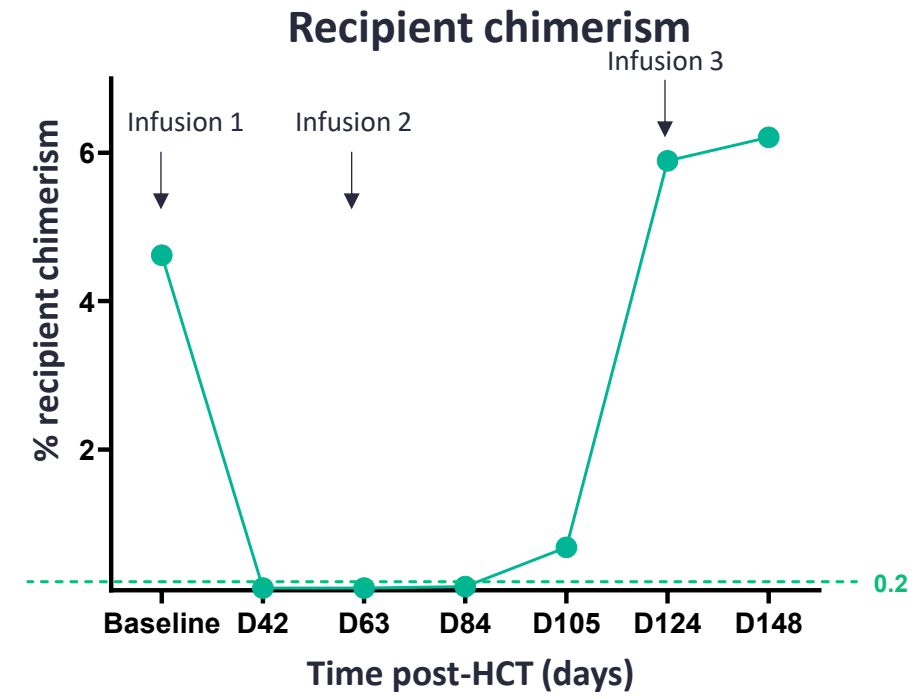
11 of 14 patients achieved complete donor chimerism within ~3 weeks of receiving first infusion of TSC-101



Patient with incomplete chimerism at day 105 showed stabilization following third infusion

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	DL4	DL4	DL3	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4
	Haplo	Haplo	MMUD	Haplo	Haplo	MMUD	Haplo	MMUD	MMUD	Haplo	Haplo	Haplo	MMUD	Haplo
Time post HCT#	AML-p53	MDS	AML	AML	ALL-p53	MDS-p53	AML	MDS	AML	MDS	AML	AML	MDS	AML
Prior to infusion	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Day 35/42	✓	✗	✓	✓	✗	✓	✓	✓	✓	✗	✓	✗	✓	✓
Day 56/63	✓	✗	✓	✓		✓	✓	✓	✓					
Day 77/84	✓	✓	✓		✗	✓	✓	✓						
Day 105	✓	●	✗											
Day 133	✓		✗											
Day 180	✓													

- MECOM-rearranged AML, a rare but aggressive subset (~2% of AML, <10% survival¹)
- MRD-positive prior to transplant and MRD-positive 3 weeks post-HCT (before first infusion)



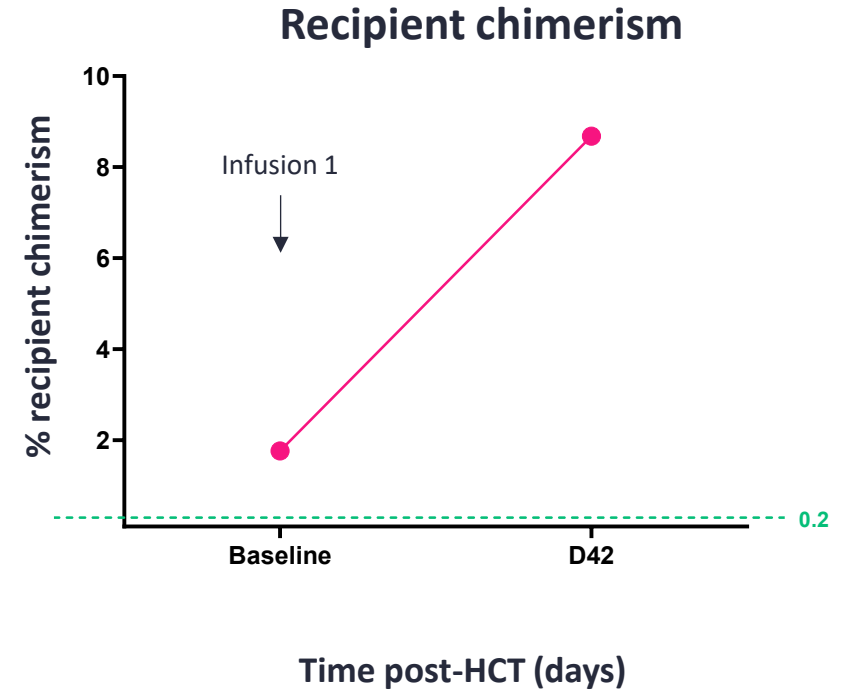
- Patient received dose level 3 and initially achieved complete donor chimerism
- Following third infusion, increasing chimerism stabilized but did not convert to complete donor chimerism



Donor chimerism results using investigational NGS assay (Allohome) with data cut-off of 0.2% at indicated times post-HCT (# ± 3 days); ALL, acute lymphoblastic leukemia; AML, acute myeloid leukemia; MDS, myelodysplastic syndromes; Haplo, haploidentical donor; MMUD, mismatched unrelated donor; Post-HCT, post-hematopoietic cell transplant; NGS, next-generation sequencing; ¹Joshi U, Shallis RM. Hematol Rep. 2025 Oct 31;17(6):59. doi: 10.3390/hematolrep17060059

Patient with increasing recipient chimerism shows no morphologic evidence of disease by bone marrow biopsy

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	DL4	DL4	DL3	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4
	Haplo	Haplo	MMUD	Haplo	Haplo	MMUD	Haplo	MMUD	MMUD	Haplo	Haplo	Haplo	MMUD	Haplo
Time post HCT#	AML-p53	MDS	AML	AML	ALL-p53	MDS-p53	AML	MDS	AML	MDS	AML	AML	MDS	AML
Prior to infusion	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
	◇		◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇
Day 35/42	✓	✗	✓	✓	✗	✓	✓	✓	✓	✗	✓	✗	✓	✓
Day 56/63	✓	✗	✓	✓		✓	✓	✓	✓					
	◇	◇	◇	◇		◇	◇	◇	◇	◇				
Day 77/84	✓	✓	✓		✗	✓	✓	✓						
				◇										
Day 105	✓	●	✗											
			◇											
Day 133	✓		✗											
Day 180	✓													



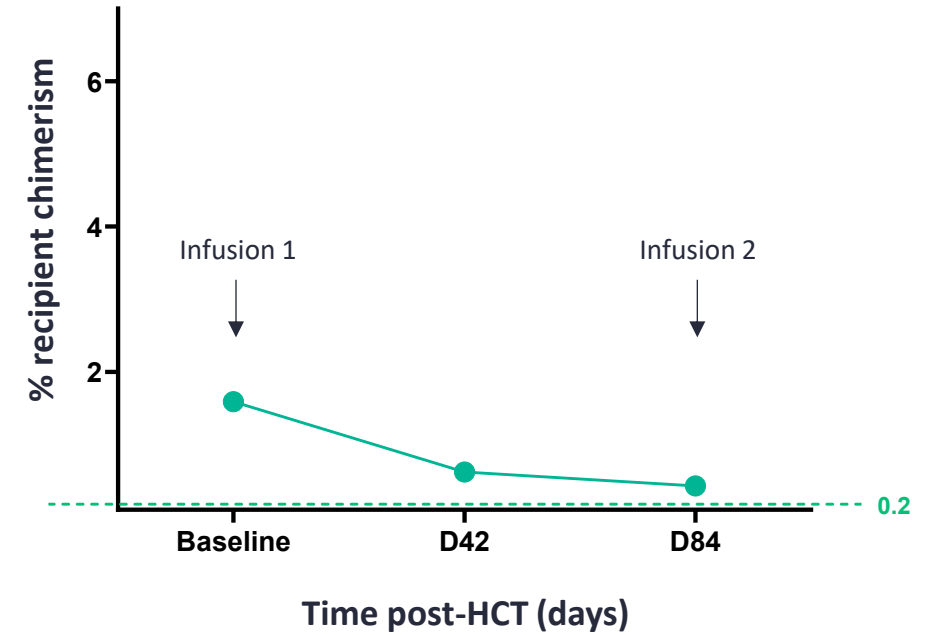
- Bone marrow biopsy at day 68 showed no morphologic or cytogenetic evidence of disease; NGS pending

Patient with p53-mutated ALL shows steady decrease in recipient chimerism

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	DL4	DL4	DL3	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4
	Haplo	Haplo	MMUD	Haplo	Haplo	MMUD	Haplo	MMUD	MMUD	Haplo	Haplo	Haplo	MMUD	Haplo
Time post HCT#	AML-p53	MDS	AML	AML	ALL-p53	MDS-p53	AML	MDS	AML	MDS	AML	AML	MDS	AML
Prior to infusion	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Day 35/42	✓	✗	✓	✓	✗	✓	✓	✓	✓	✗	✓	✗	✓	✓
	◆		◆	◆		◆	◆	◆	◆					
Day 56/63	✓	✗	✓	✓		✓	✓	✓	✓					
	◆	◆	◆	◆		◆	◆	◆	◆	◆				
Day 77/84	✓	✓	✓		✗	✓	✓	✓						
					◆									
Day 105	✓	●	✗											
			◆											
Day 133	✓		✗											
Day 180	✓													

ALL is not included in Phase 3 protocol

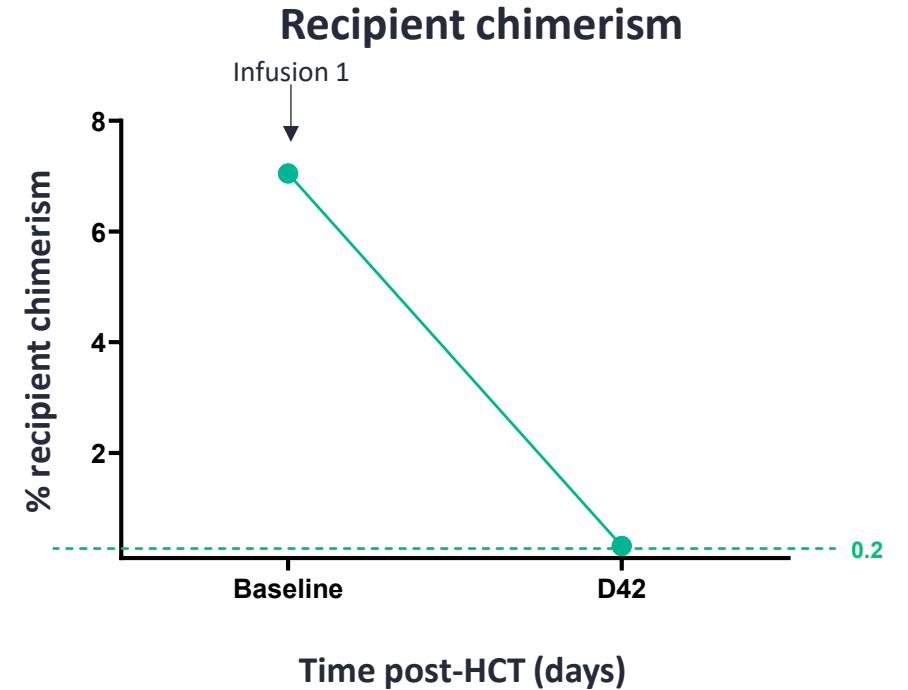
Recipient chimerism



- Progressive decrease in recipient chimerism at each time point prior to second infusion

Patient with high recipient chimerism post-transplant shows dramatic reduction following first infusion of TSC-101

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Time post HCT#	DL4	DL4	DL3	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4
	Haplo	Haplo	MMUD	Haplo	Haplo	MMUD	Haplo	MMUD	MMUD	Haplo	Haplo	Haplo	MMUD	Haplo
	AML-p53	MDS	AML	AML	ALL-p53	MDS-p53	AML	MDS	AML	MDS	AML	AML	MDS	AML
Prior to infusion	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Day 35/42	✓	✗	✓	✓	✗	✓	✓	✓	✓	✗	✓	✗	✓	✓
Day 56/63	✓	✗	✓	✓		✓	✓	✓	✓					
Day 77/84	✓	✓	✓		✗	✓	✓	✓						
Day 105	✓	●	✗											
Day 133	✓		✗											
Day 180	✓													



- Dramatic decrease in recipient chimerism three weeks after first infusion
- Chimerism just above assay cutoff of 0.2%

No patients in Cohort C have relapsed to date, with higher rates of complete donor chimerism compared to control-arm patients

% Patients with complete donor chimerism

	Cohort A	Cohort C	Control
Immediately post-HCT	37% (7/19)	14% (2/14)	24% (4/17)
~3 weeks after infusion 1	79% (15/19)	79% (11/14)	61% (11/18) [#]
~3 weeks after infusion 2	73% (11/15) [†]	100% (5/5) [*]	53% (9/17) [#]

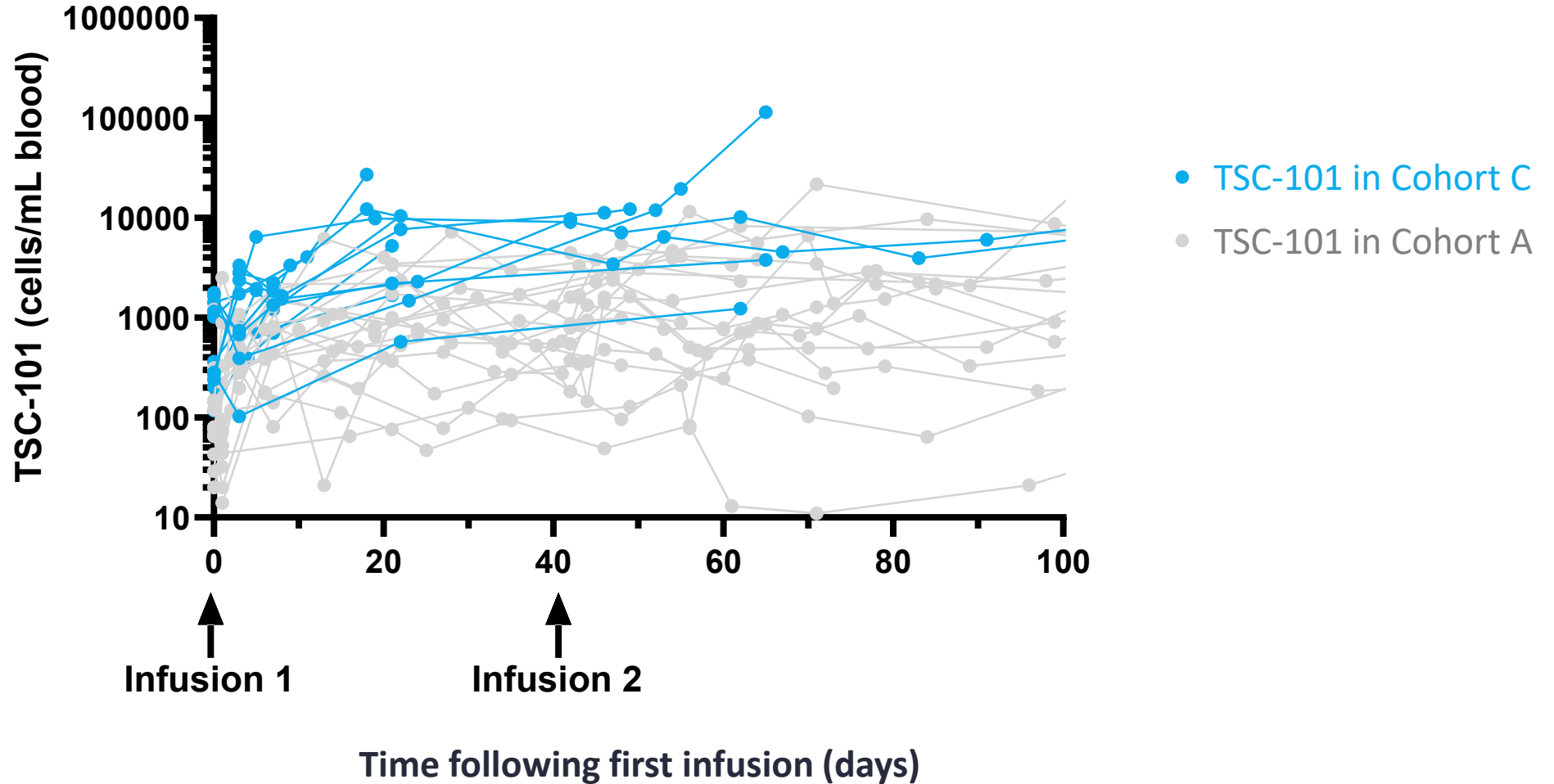
[†] 15/19 patients received two or more infusions of TSC-101; Of the 4 patients that only received one infusion, 3 achieved and maintained complete donor chimerism within 3 weeks of receiving their infusion

^{*} Patient receiving dose level 3 subsequently showed mixed donor chimerism

[#] For the control arm, day 35/42 and day 77/84 were deemed the comparable time points to ~3 weeks post first and second infusions of TSC-101

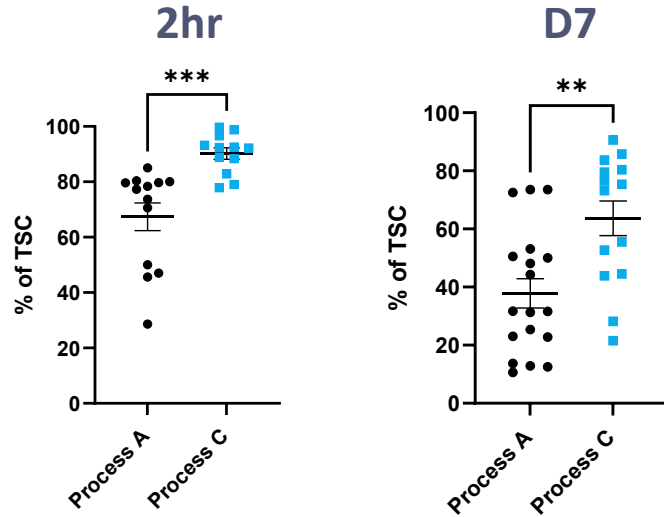
TSC-101 in Cohort C continues to show high levels of circulating TCR-T cells

TSC-101 levels following first infusion

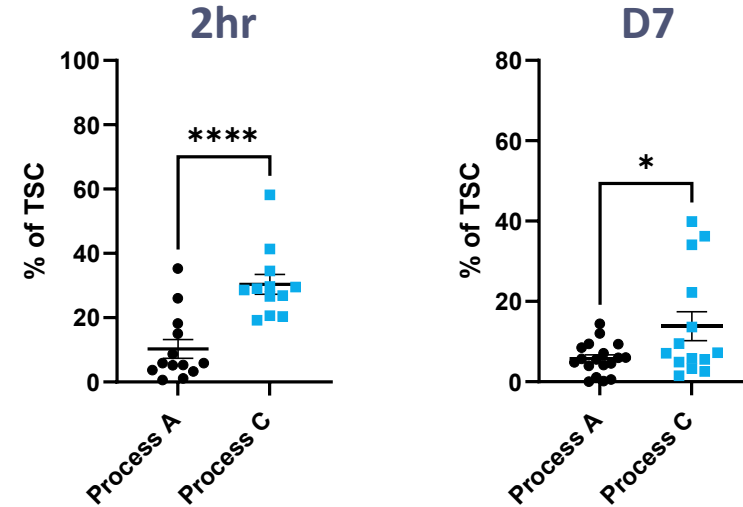


TSC-101 in Cohort C shows higher markers of proliferation, activation, and cytotoxicity than in Cohort A

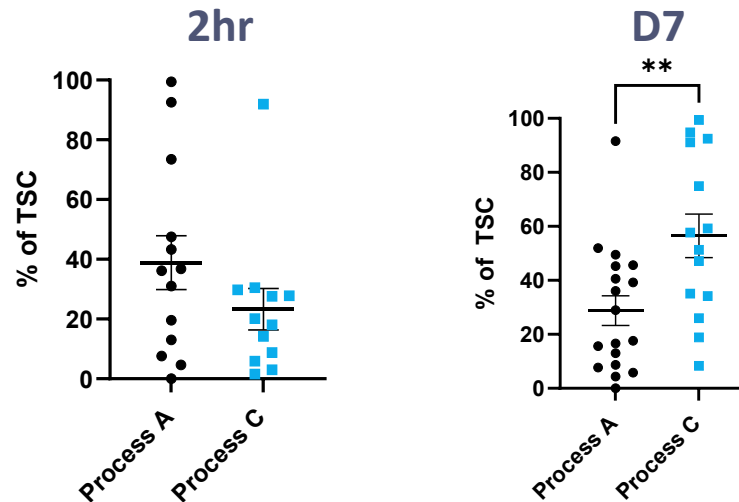
Ki67 (proliferation) is higher in Cohort C



CD28 (activation) is higher in Cohort C



Granzyme B (cytotoxicity) is higher 7 days post infusion in Cohort C



Heme Program: Review of Cohort C Data

Patients are generally well balanced across arms, although Cohort C included a higher percentage of patients with MRD-positive disease prior to transplant

		TSC-101 Cohort A	TSC-101 Cohort C	Control
Evaluable Subjects*		19	14	19
Age, Median years (Range)		65 (52-74)	68 (28-79)	66 (23-77)
Sex, Male		13 (68%)	9 (64%)	9 (47%)
Underlying Disease	ALL	2 (11%)	1 (7%)	1 (5%)
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TP53 mutated		6 (32%)	3 (21%)	4 (21%)
MRD-positive pre-HCT		12 (63%)	9 of 12 (75%)	10 (53%)
Donor type	Haplo	19 (100%)	9 (64%)	18 (95%)
	MMUD	--	5 (36%)	1 (5%)
Mixed chimerism post-HCT (~D21)		11 of 18 (61%)	12 of 14 (86%)	13 of 17 (76%)

11 of 14 patients achieved complete donor chimerism within ~3 weeks of receiving first infusion of TSC-101

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	DL4	DL4	DL3	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4	DL4
	Haplo	Haplo	MMUD	Haplo	Haplo	MMUD	Haplo	MMUD	MMUD	Haplo	Haplo	Haplo	MMUD	Haplo
Time post HCT#	AML-p53	MDS	AML	AML	ALL-p53	MDS-p53	AML	MDS	AML	MDS	AML	AML	MDS	AML
Prior to infusion	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Day 35/42	✓	✗	✓	✓	✗	✓	✓	✓	✓	✗	✓	✗	✓	✓
Day 56/63	✓	✗	✓	✓		✓	✓	✓	✓					
	◆	◆	◆	◆		◆	◆	◆	◆	◆	◆			
Day 77/84	✓	✓	✓		✗	✓	✓	✓						
					◆									
Day 105	✓	●	✗											
			◆											
Day 133	✓		✗											
Day 180	✓													

- ◆ TSC-101 infusion
- ✓ Complete donor chimerism
- ✗ Mixed donor chimerism
- ▲ Relapse
- Non-relapse death
- Relapse death



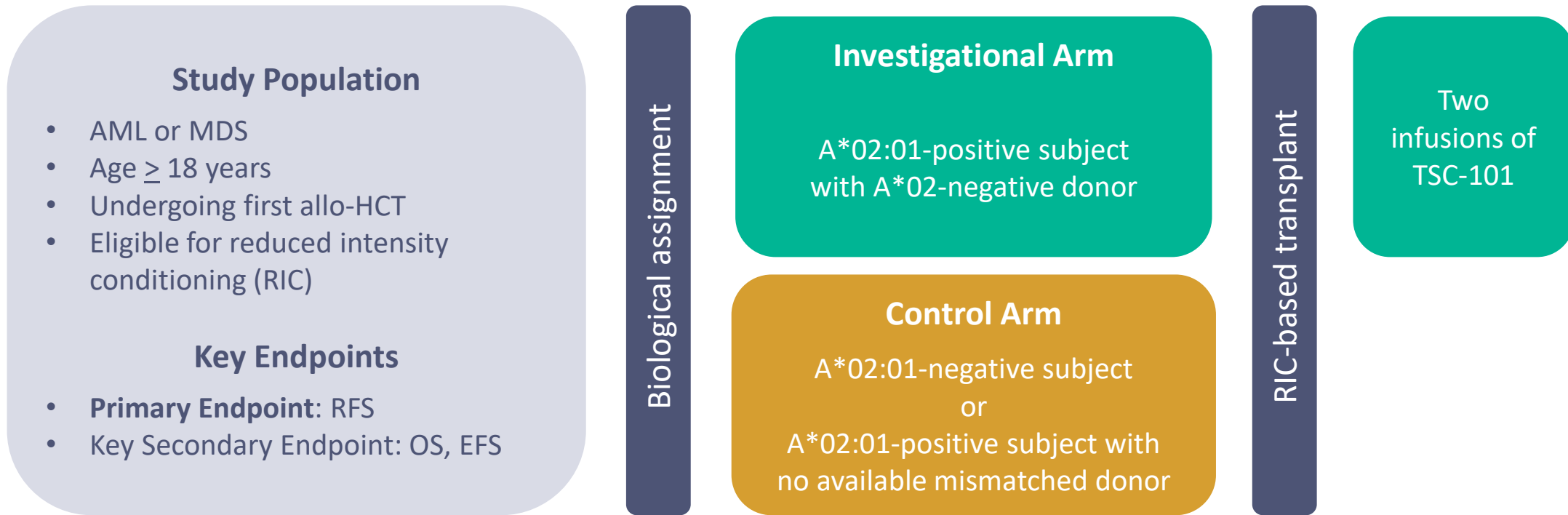
Donor chimerism results using investigational NGS assay (Allohome) with data cut-off of 0.2% at indicated times post-HCT (#± 3 days); ALL, acute lymphoblastic leukemia; AML, acute myeloid leukemia; MDS, myelodysplastic syndromes; Haplo, haploidentical donor; MMUD, mismatched unrelated donor

Heme Phase 3 trial design

*Targeting residual disease to prevent relapse
in patients undergoing allogeneic HCT*

Pivotal trial design for TSC-101 uses a biologically-assigned control arm to support relapse-free survival as the primary endpoint

- Agreement reached with the FDA to use a **pivotal trial design that mirrors the ALLOHA™ Phase 1 trial**
- All patients that are eligible for TSC-101 will be assigned to the investigational arm
- Trial **powered at 85% for a Hazard ratio of 0.52** with readout at 25 months (no interim analysis), **n= ~150/arm**



Important protocol modifications from Phase 1 to Phase 3 study

	Phase 1	Phase 3
Population	AML, ALL, MDS	AML, MDS
Donor Type	Haplo in Cohort A; Haplo and MMUD enrolled in Cohort C	Haplo and MMUD
Enrollment Ratio	Treatment:Control ~1:1	Treatment:Control 1:1 with flexibility up to ~1.5:1
Enrollment Stratification	No balancing	Disease type & poor prognostic genotype*
Clinical Eligibility	Transplant-eligible	AML in CR1, CR2 or <5% blasts; MDS <10% blasts
Maintenance Medications	IDH1/2, FLT3, BCR-ABL TKIs delayed use in both arms; HMAs restricted	IDH1/2 & FLT3-Is at any time; Menin inhibitors and HMA's delayed for tx arm; all prespecified
Relapse Definitions	Physician Specified	ELN 2022 (AML), modified R-IWG 2023 (MDS) or cytogenetic relapse

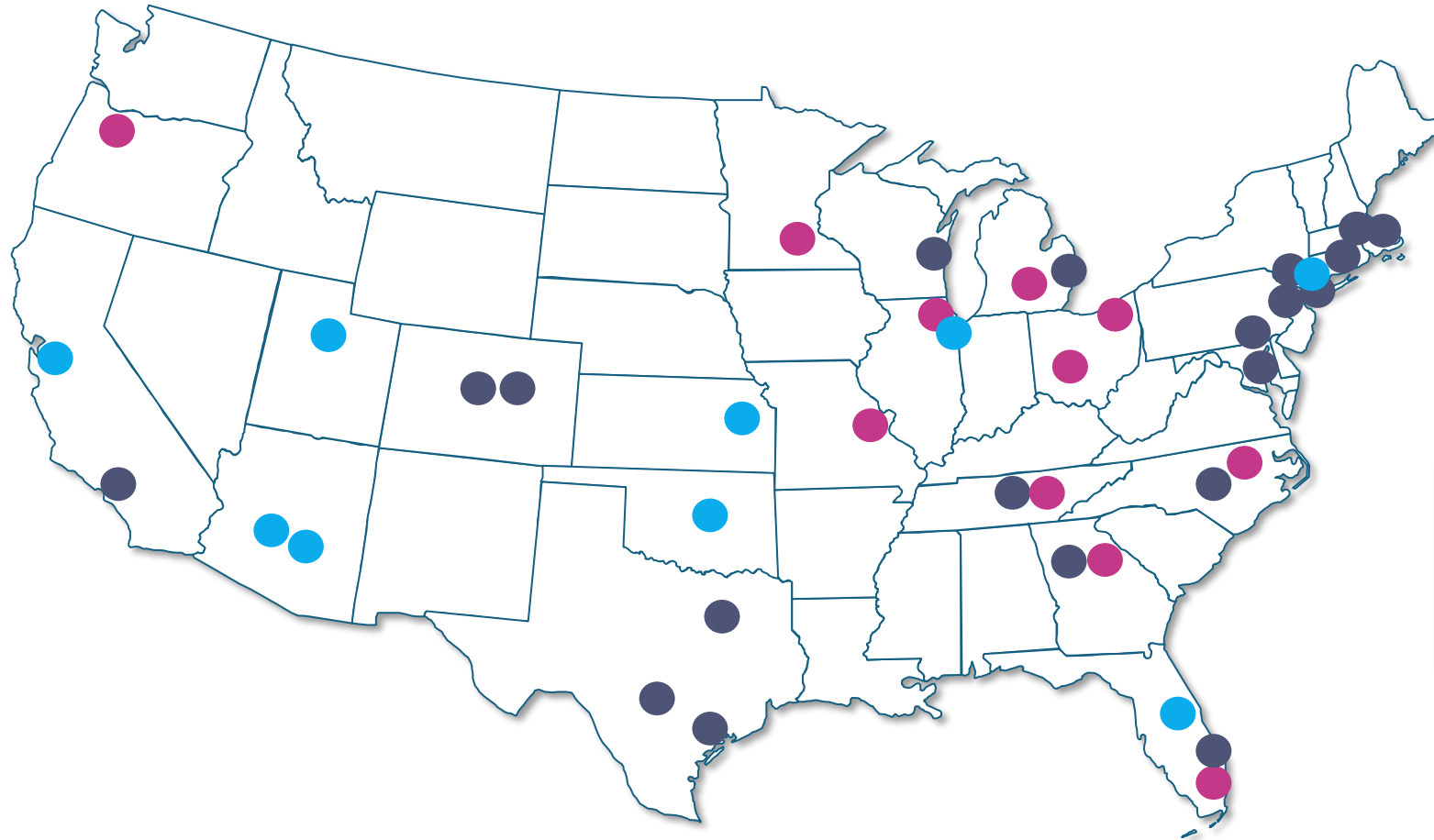
Strategies developed to achieve balance between treatment and control arms

Goal: Balanced enrollment of high-risk vs. intermediate/low risk subjects between treatment and control arms

Methods to Achieve Balance

Enrollment	Statistical
Stratification by disease type and poor prognostic genotype status*	Separate models per disease type
Regular tracking and review with PIs	Use of non-parametric models (Cox proportional hazard)
Pausing enrollment in a stratum^	Conservatively powered study

US geographical footprint ensures appropriate patient access to treatment



ATCs Color Coded by Category:

- Current clinical trial sites
- Potential additional sites for pivotal
- Potential additional sites for commercial

- ~120 centers conduct allo-HCT
- 21 sites in Phase 1 clinical trial
- 30 sites in Phase 3 trial

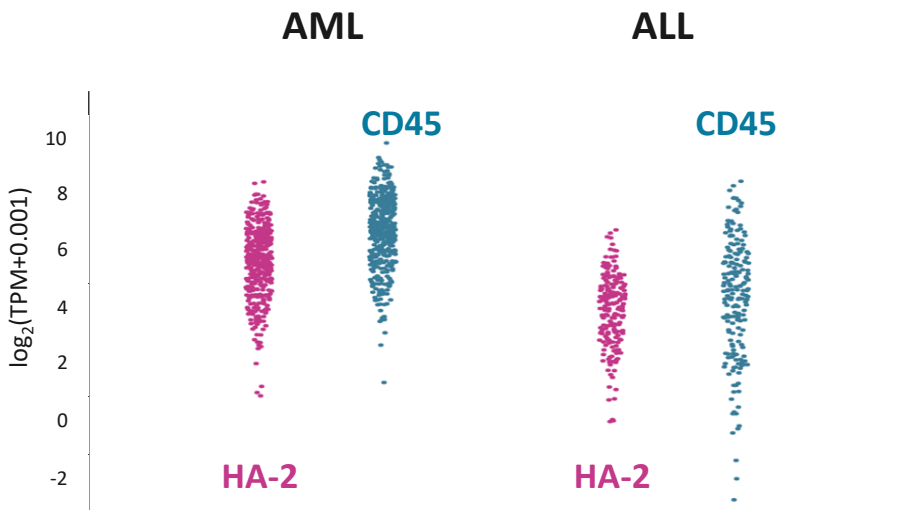
Heme program:

HLA and indication expansion

TCRs for additional HLA types will target epitopes on CD45, a universal source of antigens for heme malignancies

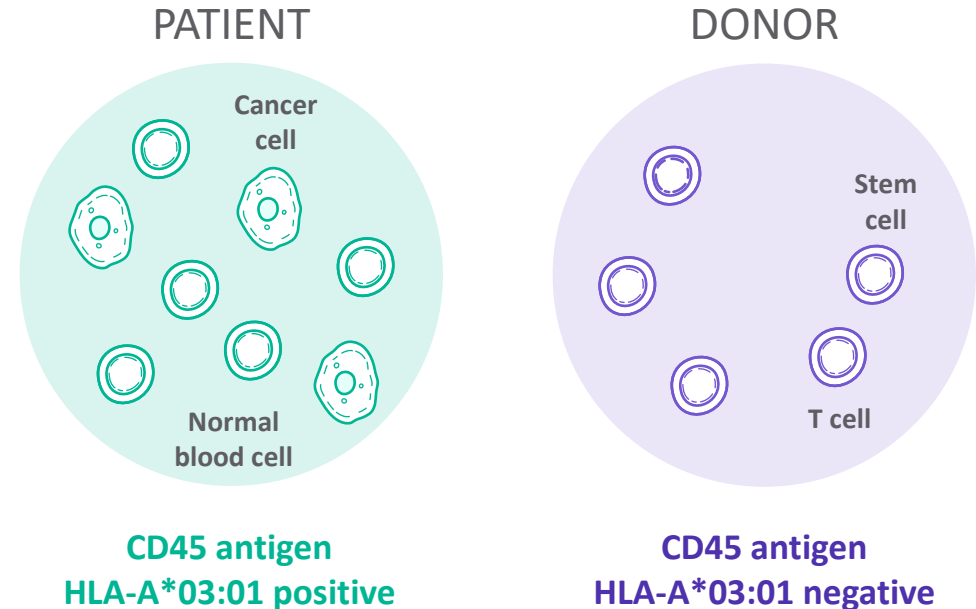
- CD45 is a lineage-specific antigen with expression in all hematopoietic cells, including HSCs
- CD45 is a large protein with many well-known epitopes for high frequency HLAs
- Antigen-negative donors will be selected by mismatching on HLA (using haploidentical and MMUD donors)

CD45 has high and uniform expression in AML and ALL



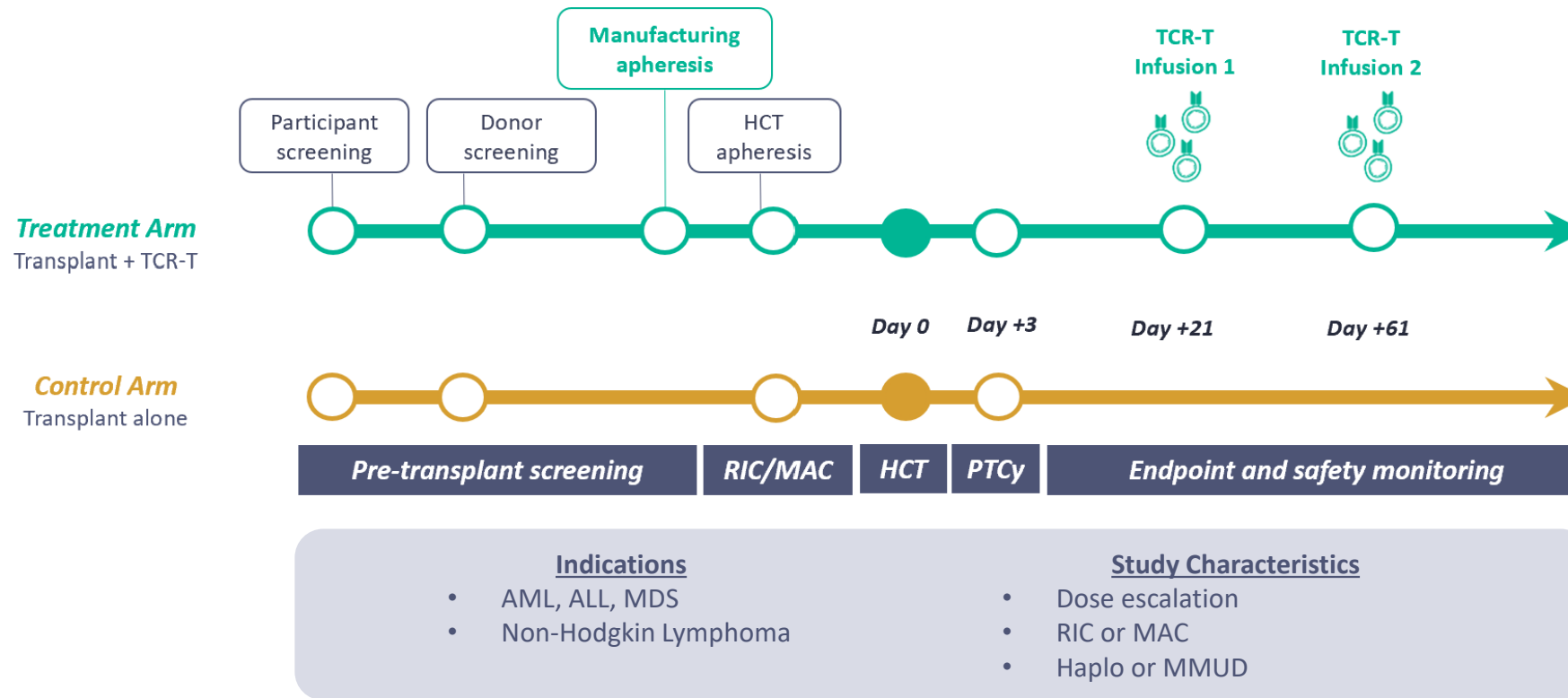
Source: TCGA

TSC-102 TCRs target CD45 antigens presented on patient but not donor HLAs



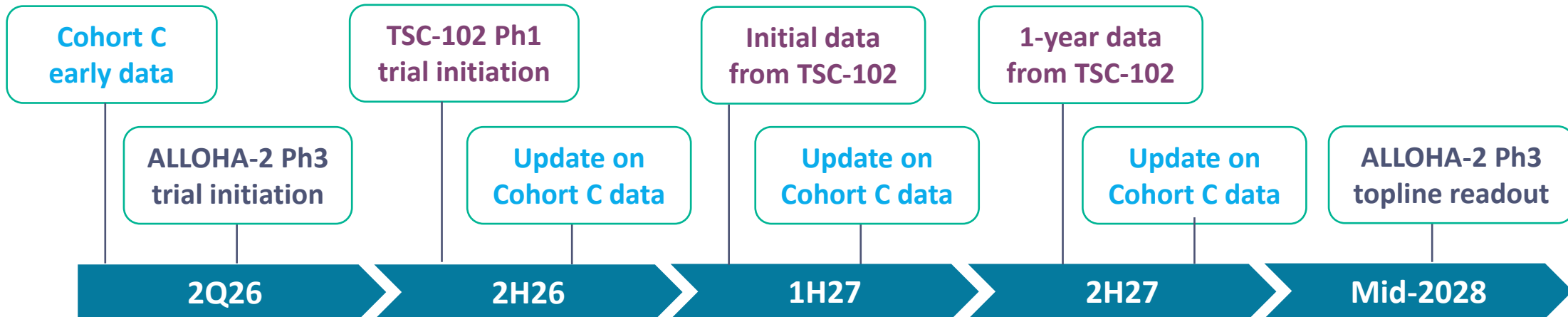
INDs cleared for TSC-102-A03 and TSC-102-A01; Phase 1 planned for Q4 2026

- Study expands the heme program
 - Two additional HLA types
 - MAC conditioning
 - ALL and Non-Hodgkin Lymphoma in addition to AML and MDS



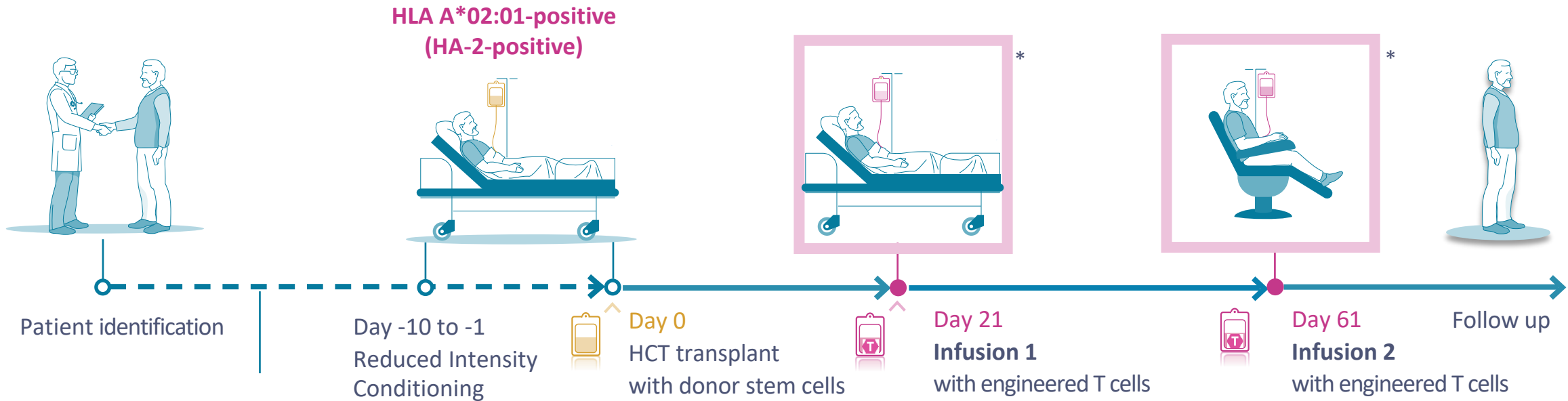
Continuous data read-outs over the next two years provides clinical de-risking

- ALLOHA-2 Phase 3 trial will take ~2 years, with a topline readout targeted for mid-2028
- Cohort C uses the same manufacturing process as the ALLOHA-2 Phase 3 trial, and is expected to provide supportive data flow throughout the duration of the pivotal study
- TSC-102 Phase 1 trial is expected to provide insight into market expansion opportunities



Market opportunity

TSC-101 is incorporated seamlessly into current transplant journey



HLA A*02:01-positive
(HA-2-positive)

HLA A*02-negative
(HA-2-negative)



Donor apheresis 1: T-cells
Donor apheresis 2: Stem cells

- Referral to existing transplant centers is current standard of care
- Patient and donor pairing conducted through standard HLA testing
- Flexibility for inpatient/outpatient infusion(s)
- Product manufacturing is completed well before planned infusion on Day 21

At launch, ~2,350 patients will qualify for TSC-101 in the U.S. based on HLA type

Addressable U.S. Patient Population

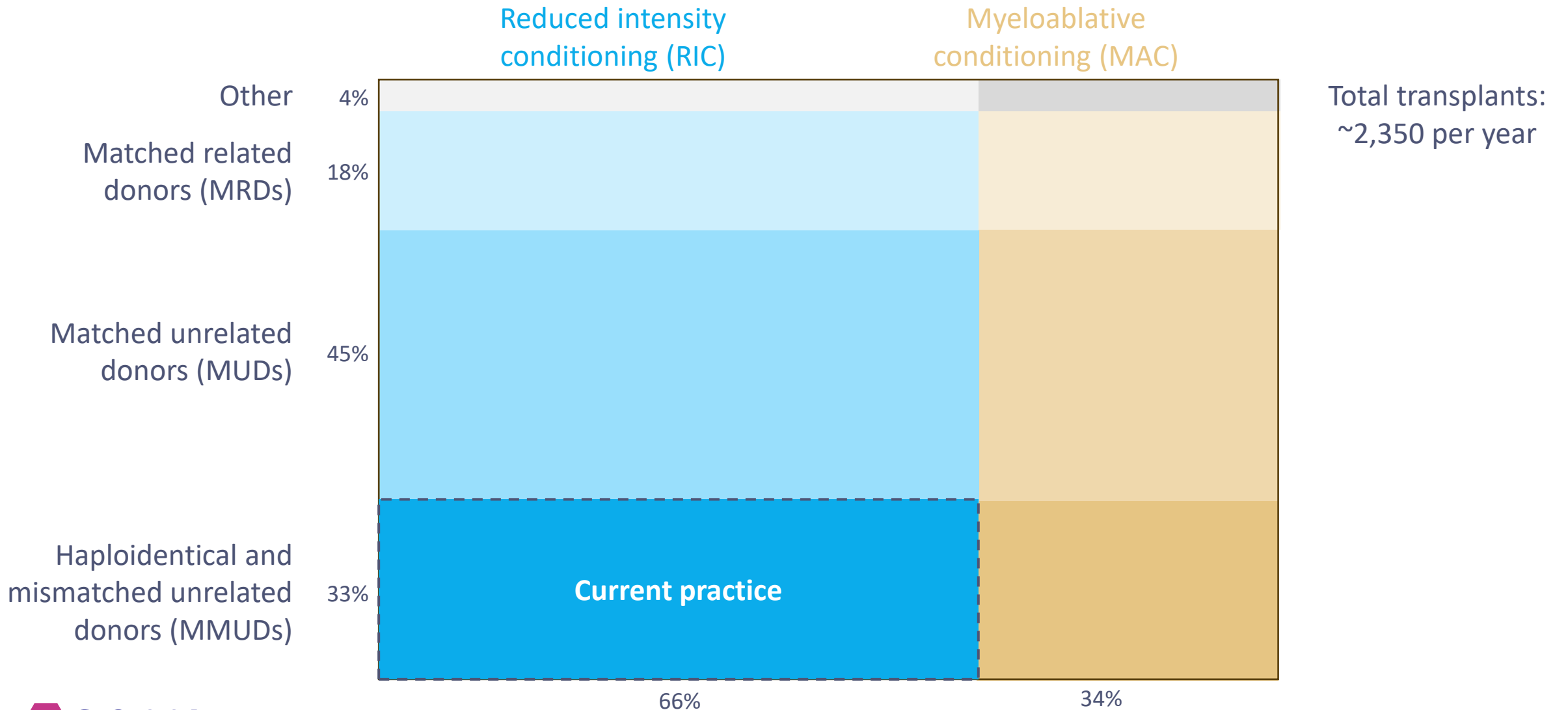
~7,000 AML/MDS patients estimated
to undergo Allo HCT in 2029*

2,940 HLA-A*02:01 positive patients
(42%)

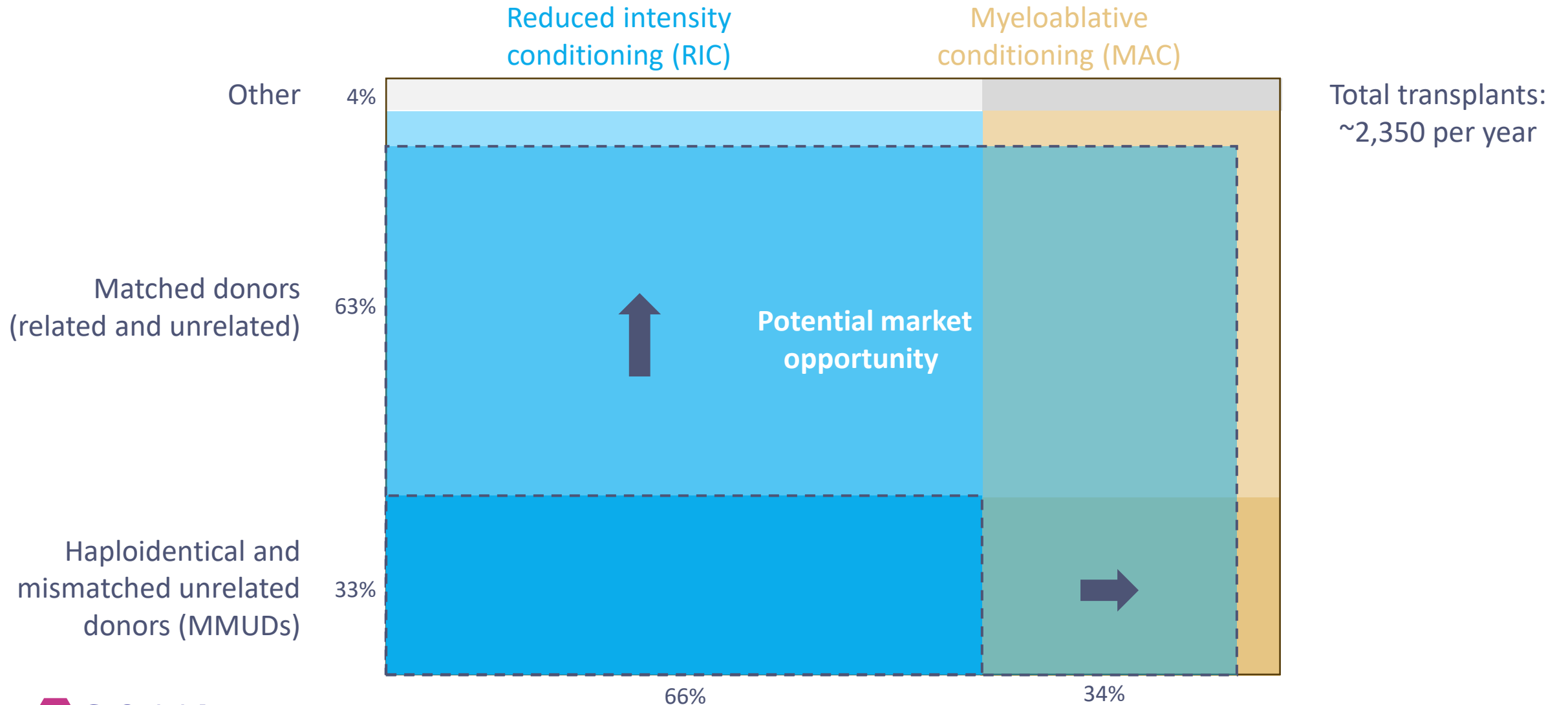
2,350 with A*02-negative donor
(80%)

Requires transplant with reduced intensity
conditioning and haplo/MMUD donor

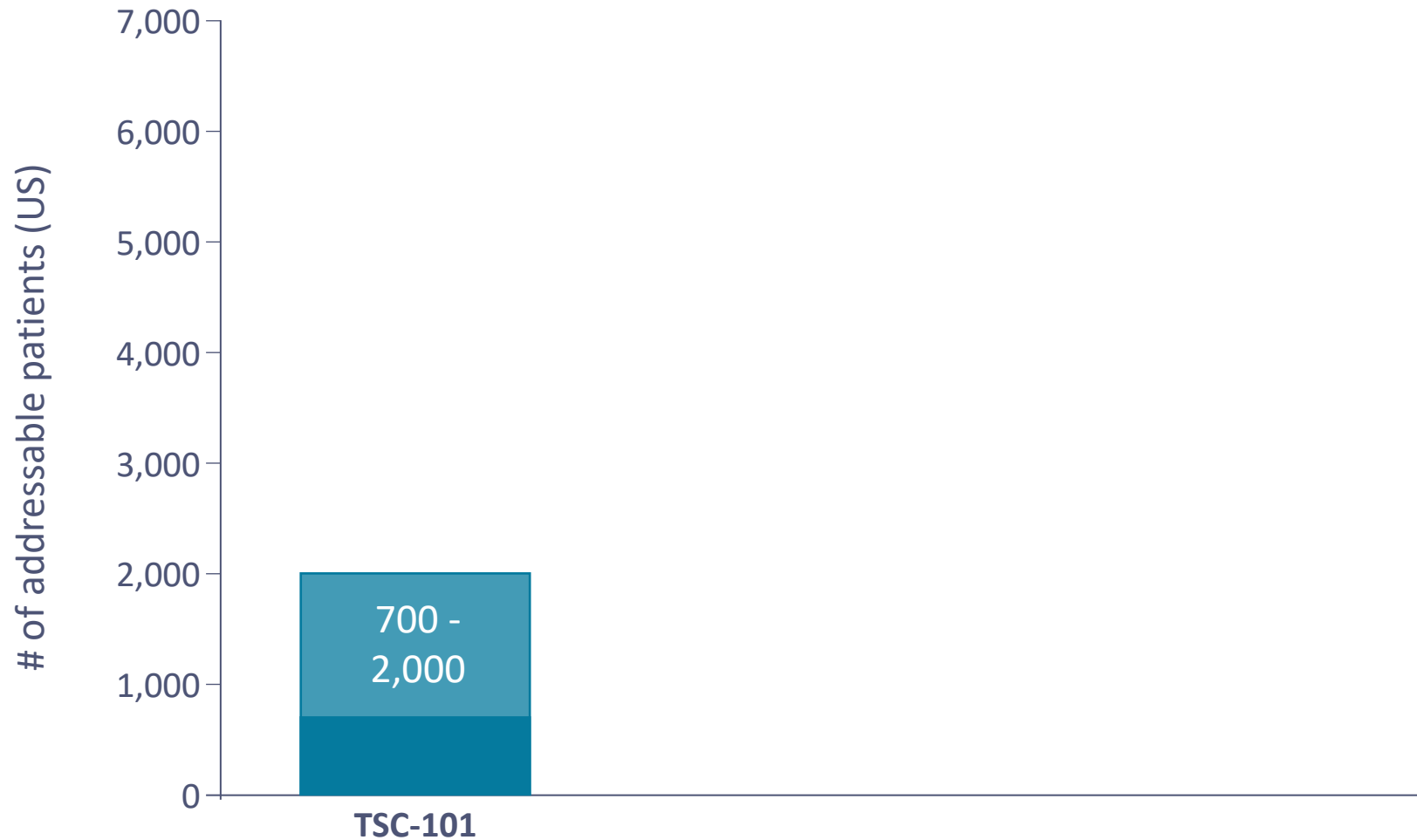
Market opportunity based on current transplant practice



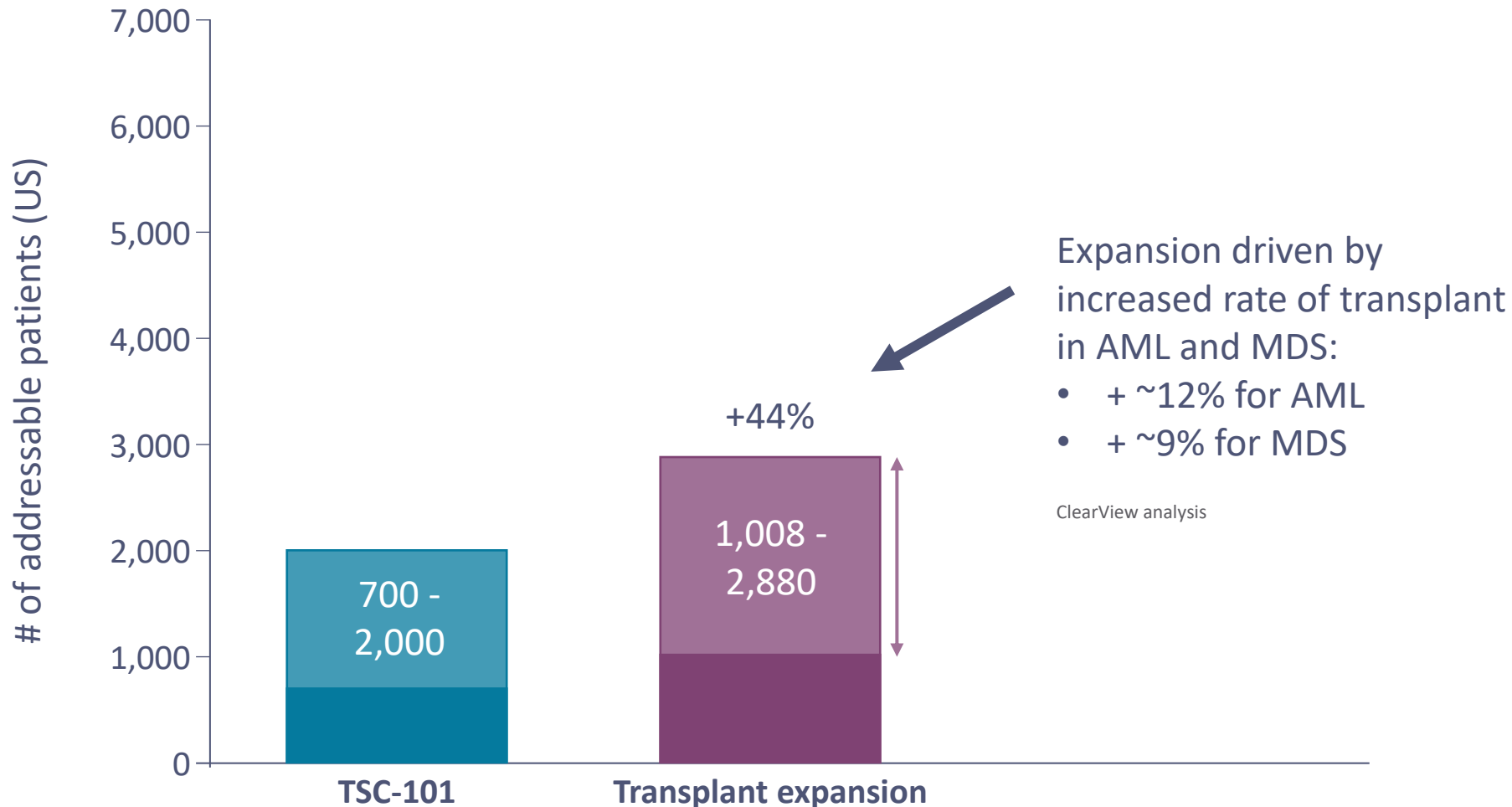
Expansion opportunity 1: Positive data expected to induce changes in clinical practice over time that increase the on-label use of TSC-101



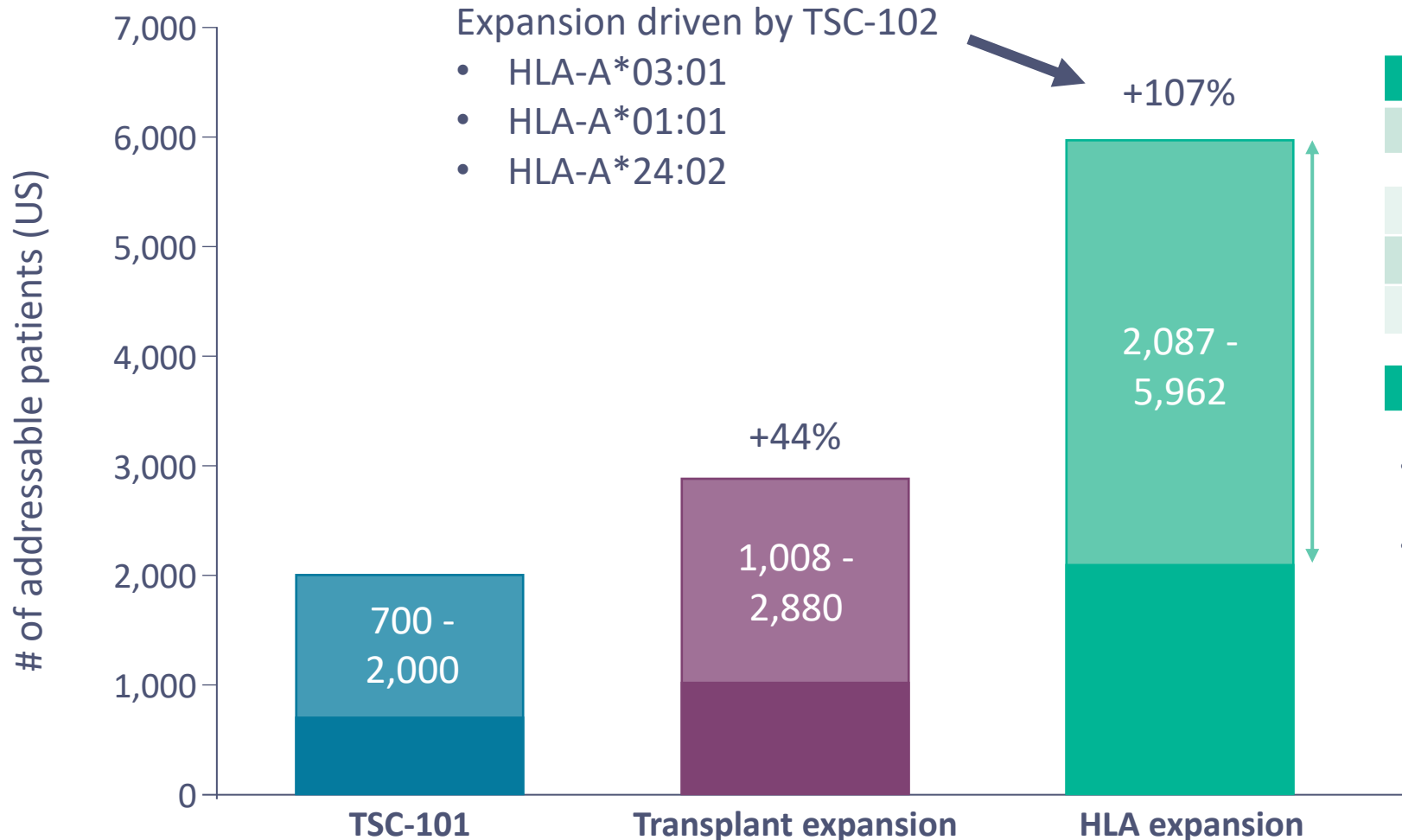
Positive data expected to increase use of RIC and haplo/MMUD donors



Expansion opportunity 2: Increased use of transplant provides a way to reach over 2,800 AML and MDS patients per year in the U.S.



Expansion opportunity 3: Products that address additional HLAs more than double the potential patient population



Candidate	HLA type	Frequency
TSC-101	A*02:01	42%
TSC-102-A01	A*01:01	24%
TSC-102-A03	A*03:01	22%
TSC-102-A24	A*24:02	17%
Total	HLA total	82%

- Accounts for overlap in addressable patient populations
- Assumes 85% probability of finding a mismatched donor

Q&A

