gamida cell

Committed to Cures

Pioneering advanced cell therapy candidates for patients with cancer and other serious diseases

June 2022

Cautionary Note Regarding Forward Looking Statements

This presentation contains forward-looking statements as that term is defined in the Private Securities Litigation Reform Act of 1995, including with respect to timing of initiation and progress of, and data reported from, the clinical trials of Gamida Cell's product candidates (including omidubicel and GDA-201), anticipated regulatory filings (including the submission of the BLA for omidubicel to the FDA), and the potentially life-saving or curative therapeutic and commercial potential of its product candidates. Any statement describing Gamida Cell's goals, expectations, financial or other projections, intentions or beliefs is a forward-looking statement and should be considered an at-risk statement. Such statements are subject to a number of risks, uncertainties and assumptions, including those related to the impact that the COVID-19 pandemic could have on our business, and including the scope, progress and expansion of Gamida Cell's clinical trials and ramifications for the cost thereof; clinical, scientific, regulatory and technical developments; and those inherent in the process of developing and commercializing product candidates that are safe and effective for use as human therapeutics, and in the endeavor of building a business around such product candidates. In light of these risks and uncertainties, and other risks and uncertainties that are described in the Risk Factors section and other sections of Gamida Cell's Annual Report on Form 10-K, filed with the Securities and Exchange Commission (SEC) on March 24, 2022 and other filings that Gamida Cell makes with the SEC from time to time (which are available at http://www.sec.gov), the events and circumstances discussed in such forward-looking statements may not occur, and Gamida Cell's actual results could differ materially and adversely from those anticipated or implied thereby. Although Gamida Cell's forward-looking statements reflect the good faith judgment of its management, these statements are based only on facts and factors currently known by Gamida Cell. As a result, you are cautioned not to rely on these forward-looking statements.

Changing the Course of Cancer Care

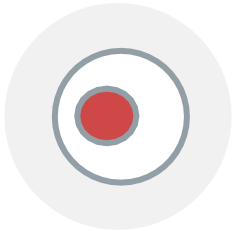
Gamida Cell is the leader in pioneering proprietary NAM-enabled cell therapy candidates designed as a curative approach for patients with cancers and other serious diseases

Gamida Cell's NAM-enabled cell therapy candidates are demonstrating near-term promise and long-term potential

Omidubicel

Lead candidate for potential U.S. launch 1H2023

- Potential to be first FDA-approved cell therapy for allogeneic hematopoietic stem cell transplant (allo-HSCT)
- Breakthrough Therapy and Orphan Drug status
- Rolling BLA submission completed in June 2022



GDA-201

Advancing Natural Killer (NK) cell clinical program

- NK cell therapy candidate with positive Phase 1 data using fresh product
- Received FDA clearance for an IND for a Phase 1/2 trial in NHL with an allogeneic readily available cryopreserved formulation
- Open for enrollment, announced June 2022

GDA-301/401/501/601

Expanding pipeline of next generation immunotherapies

- Proof-of-concept for NK cell genetic engineering modifications, including CAR, membrane bound IL15, and knockouts using multiple approaches including CRISPR
- Evidence of increased cytotoxicity in preclinical studies
- Potential in hematology and solid tumors
- Selecting one candidate for IND enabling study by the end of 2022

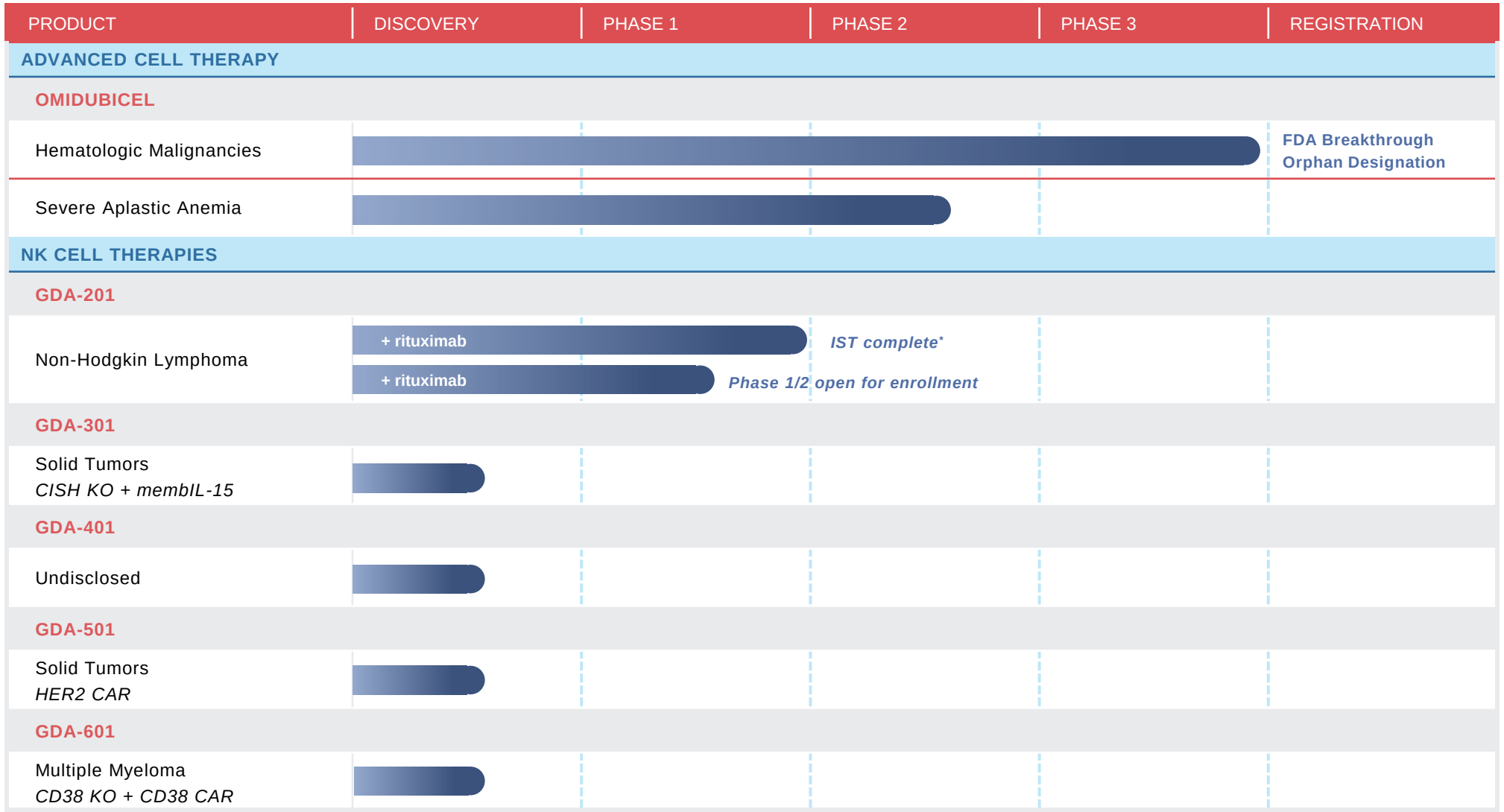
Well positioned to execute goals | $70M Cash* | Cash runway into mid-2023 and through potential omidubicel approval

*As of March 31, 2022

BLA: Biologics License Application. NHL: Non-Hodgkin Lymphoma. IND: Investigational New Drug.

GDA-201, GDA-301, GDA-401, GDA-501, GDA-601 are investigational and safety and efficacy have not been established by any agency.

Proprietary pipeline of potential curative therapy candidates for patients with hematologic diseases and solid tumors



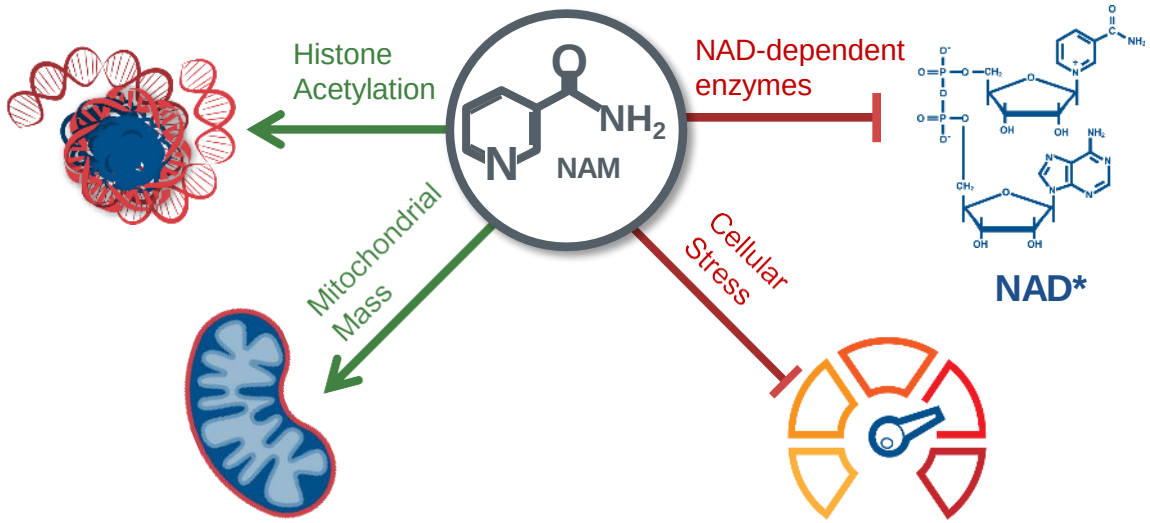
*Investigator Sponsored Trial (IST) was with a fresh formulation of GDA-201

GDA-201, GDA-301, GDA-401, GDA-501, GDA-601 are investigational and safety and efficacy have not been established by any agency.

Our proprietary NAM Technology powers our commitment to cures

Gamida Cell NAM Technology

- Enhances cellular **functionality and phenotype**
- Augments the **number of allogeneic donor cells**
- Demonstrates potential to **multiply any cell type**



NAM=nicotinamide. The NAM technology leverages the unique properties of NAM to enable the enhancement of multiple cell types, including stem cells, with appropriate growth factors to maintain the cells' original phenotype and potency

Horwitz et al. Blood. 2021;138:1429-1440. Peled et al. *Exp Hematol.* 2012;40:342-55.e1.

Omidubicel

A potentially curative treatment candidate
for patients with hematologic malignancies
in need of an allogeneic stem cell transplant

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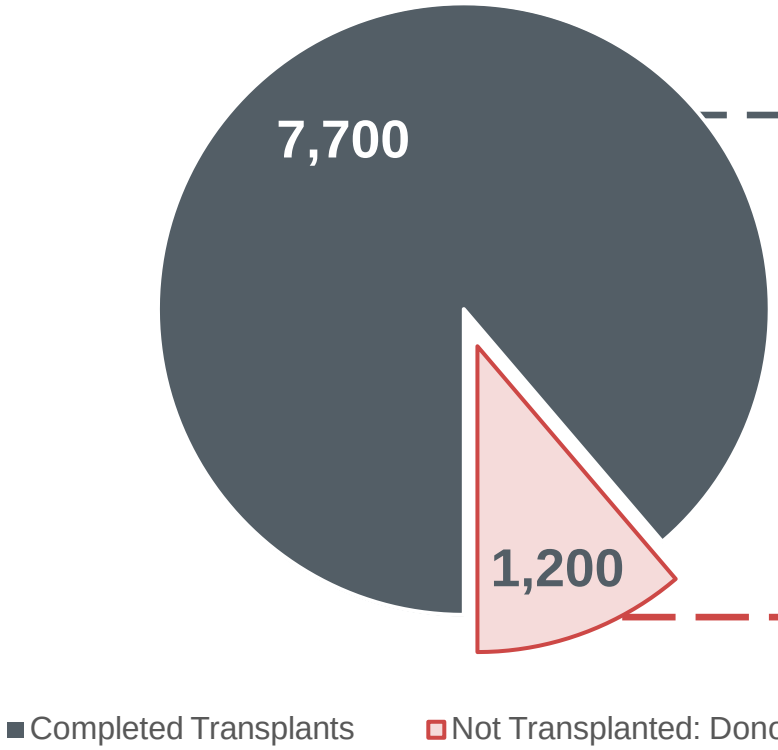
Allo-transplant is a potentially curative treatment option, and while a growing market, it is not without unmet needs

Allo-HSCT in the United States



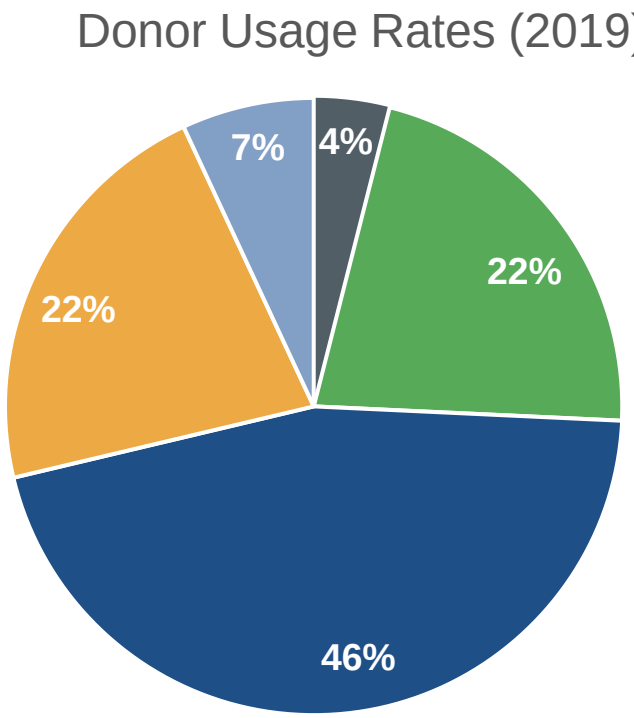
7,700 patients 12+ with hematologic malignancies were transplanted in 2019, and that number is **projected to grow** due to increase in aging population, growth in hematologic malignancies, earlier diagnosis, and accelerated referrals

Transplanters indicate that the number of patients **unable to find appropriate donors** is equivalent to **~13% of potential transplant volume**

CIBMTR 2019, Gamida Cell Primary Market Research

Each patient who receives an allo-HSCT must be uniquely paired with a donor source, and currently there is no standard of care

Donor source usage rates are driven by HLA match*, availability, donor age, and timing

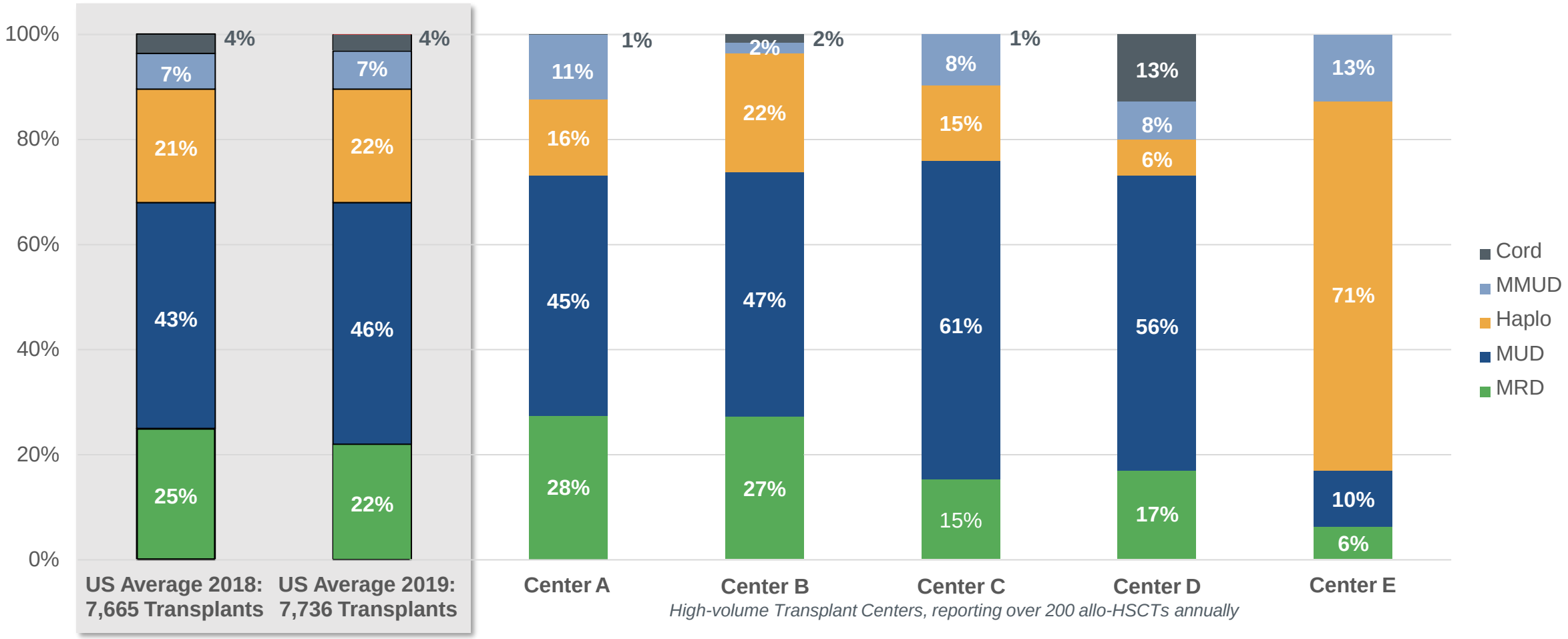


Matched Related Donor (MRD)	**8/8 HLA-matched** cells from a **related** donor
Matched Unrelated Donor (MUD)	**8/8 HLA-matched** cells from an **unrelated** donor
Haploidentical Donor (Haplo)	**HLA-half matched** cells from a **related** donor
Mismatched Unrelated Donor (MMUD)	**Incompletely matched** cells from an **unrelated** donor
Umbilical Cord Blood (UCB)	**HLA matched, unrelated** stem cells identified through a cord blood bank

*__HLA match__ refers to the process in which blood or tissue samples are tested for **human leukocyte antigens** (HLAs) to determine the **degree of matching** between the **donor and transplant recipient**.

CIBMTR 2019: allogenic transplants in patients 12+ years with hematological malignancies by center. Anon, NCI Dictionary of Cancer terms. National Cancer Institute. Available at: https://www.cancer.gov/publications/dictionaries/cancer-terms/def/hla-matching [Accessed December 27, 2021].

Additionally, Transplant Centers differ in their use of donor source



High-volume Transplant Centers, reporting over 200 allo-HSCTs annually

 CIBMTR 2018 and 2019– allogenic transplants in patients 12+ years with hematological malignancies by center

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Donor source identification and selection is complex, and each source has limitations

Matched Related Donor	Matched Unrelated Donor	Haploidentical Donor	Mismatched Unrelated Donor	Umbilical Cord Blood
Recognized as the **gold standard**	Seen as the **next alternative** to MRD	**Extends chance** of finding a related donor	Registries provide **more options**	**Readily available, less stringent matching criteria** without the risk of increased GvHD
• **70%** of patients will **NOT have an MRD** • **Requires consideration of donor age, as older** donors are associated with **reduced overall survival (OS)**	• Likelihood of finding a match is **lower for minority groups** • The search process averages 2-3 months, with **delayed acquisition significantly impacting patient outcomes**	• Use of PTCy reduces GvHD, but leads to **increased incidence of infection** and risk of **cardiotoxicity** • Potential for **older donor age** also **negatively impacts outcomes**	• The decreased HLA match leads to **increased risk of GvHD** • Patients face the same negative consequences as MUD when a **delay occurs**	• **Engraftment time is delayed** due to lower cell count, leading to increased risk of infection • Patients face **additional hospitalization days** compared to other donor sources

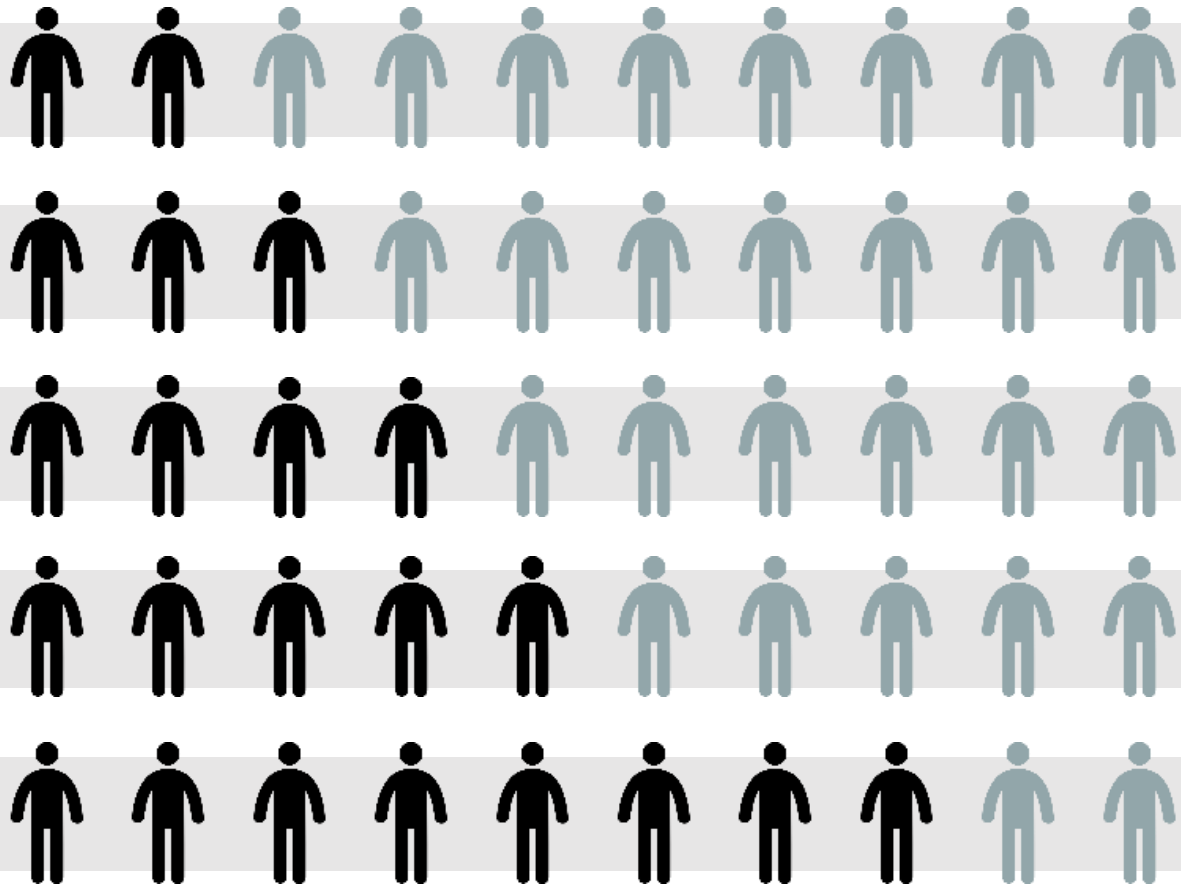
GvHD: Graft versus Host Disease

Demand Estimation and Forecast Qualitative Report. 2020. Sugita, Junichi. HLA-haploidentical stem cell transplantation using posttransplant cyclophosphamide. International Journal of Hematology. 2019. CIBMTR 2018-2019 – allogenic transplants in patients 12+ years with hematological malignancies by center

There is a particularly urgent unmet need for patients within minority groups, as these patients comprise only ~30% of transplants today

Likelihood of finding a donor match through a registry varies greatly by race

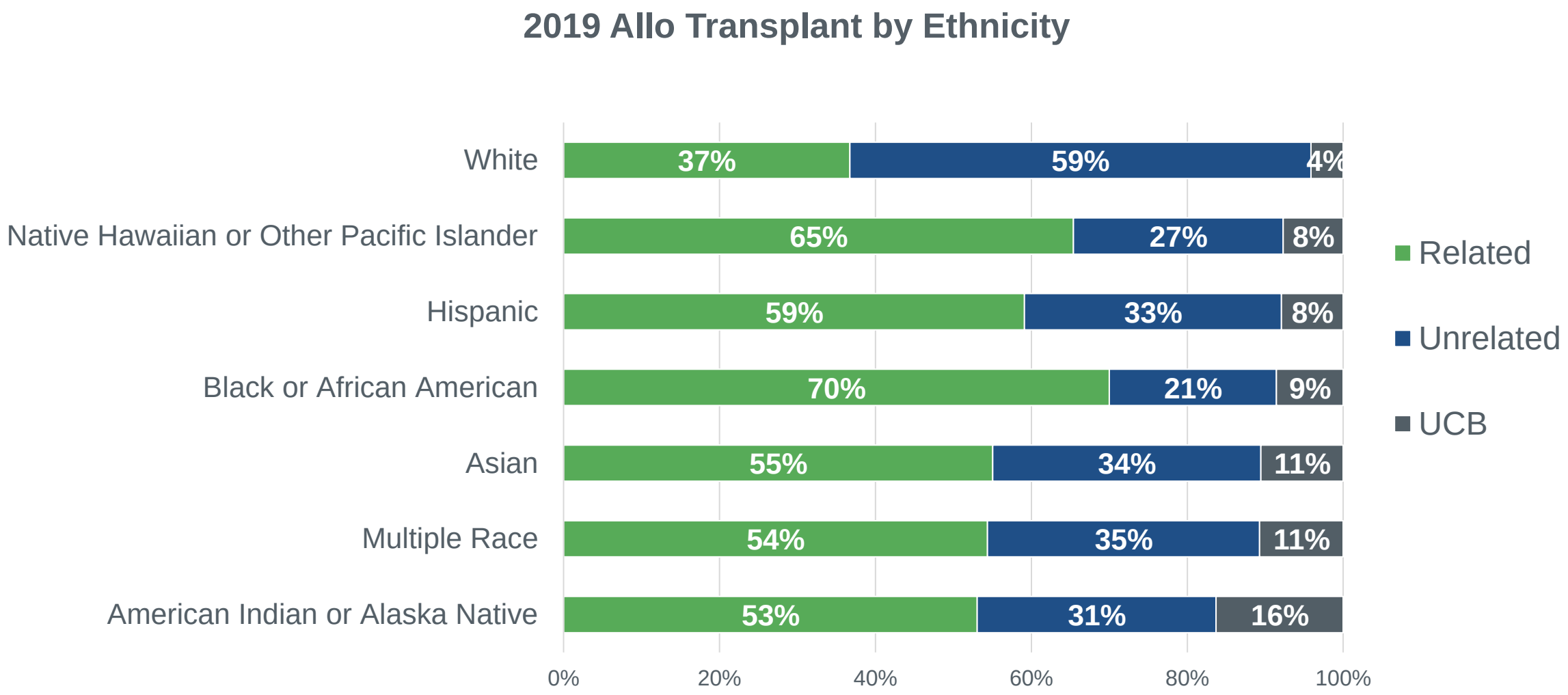
Black Patients*	16-19%
Asian Patients**	27-42%
Hispanic Patients***	34-40%
White Patients of Middle Eastern or North African Descent	46%
White Patients of European Descent	75%



* Includes African American, African, Black South or Central American, and Black Caribbean
** Includes Chinese, Korean, South Asian, Japanese, Filipino, Southeast Asian, and Vietnamese
*** Includes Mexican, Hispanic South or Central American, and Hispanic Caribbean

Gragert et al. N Engl J Med. 2014;371(4):339-348. CIBMTR Transplant Activity Report 2018

Minority patients leverage MUD and MMUD less often, and UCB more often than white patients



Source: CIBMTR Transplant Activity Report 2019 (Table 20 and 21) including all allogenic transplants. "Related" includes MRD and haplo; "Unrelated" includes MMUD and MUD.

Omidubicel is the advanced cell therapy candidate option that addresses today's unmet needs

	Unmet Needs		Omidubicel Offering
Match	**~30%**	of patients will have an adequately matched related donor	**~93%** of omidubicel patients were able to **find a suitable donor** in the Phase 3 trial due to less stringent matching requirements
Availability	**~20%**	of African Americans find a matched unrelated donor in the registry database	Omidubicel **expands access** to previously underserved populations, and **minority patients** represented **~40% of patients** in the Phase 3 trial
Donor Age	**> 30**	years old increases risk of complications and reduced OS	Omidubicel combines the naivety of cord blood with sufficient cell quantity that leads to **improved clinical outcomes**
Timing Urgency	**2-3+**	months from preliminary search to transplant	Omidubicel offers rapid availability and a reliable process, with a personalized product **delivered in 30 days** from selection of a cord blood unit

Omidubicel data demonstrates **positive clinical outcomes** for patients with hematologic malignancies

1. Kindwall-Keller and Ballen. The Oncologist. 2017, 22;1125-1134. 2. Dehn et al. Blood. 2019, 134:924-934. 3. Wilkerson J. Science in the News. Published November 2019. Accessed November 2021. 4. Be The Match. Why Ethnicity Matters When Donating Bone Marrow. Accessed November 2021. 5. Be the Match. Five Year Strategic Plan 2019–2023. Published 2020. 6. Switzer et al. Bone Marrow Transplant. 1999;24(3):313-319. 7. DeZern et al. Blood Adv. 2021;5(5):1360-1368. 8. Ciurea et al. Blood Adv. 2018;2(17):2254-2261. Omidubicel is investigational and safety and efficacy have not been established by any agency.

Omidubicel

The latest data demonstrating the potential for cure

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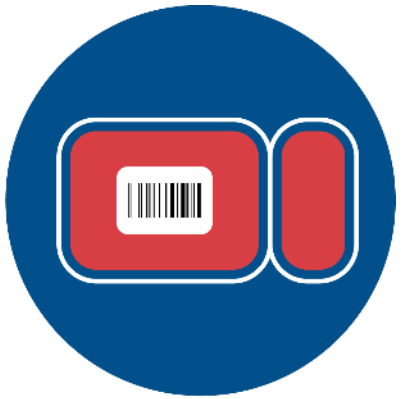
Omidubicel is a personalized advanced cell therapy candidate consisting of a cultured and non-cultured fraction from a single umbilical cord blood unit



Cord Blood Unit (CBU) Selected

CBU selected by physician from US public cord blood bank

Omidubicel

Cultured Fraction

NAM-enhanced population of CD34+ hematopoietic stem cells

Non-Cultured Fraction

Immune cells, including T cells

Omidubicel Infusion

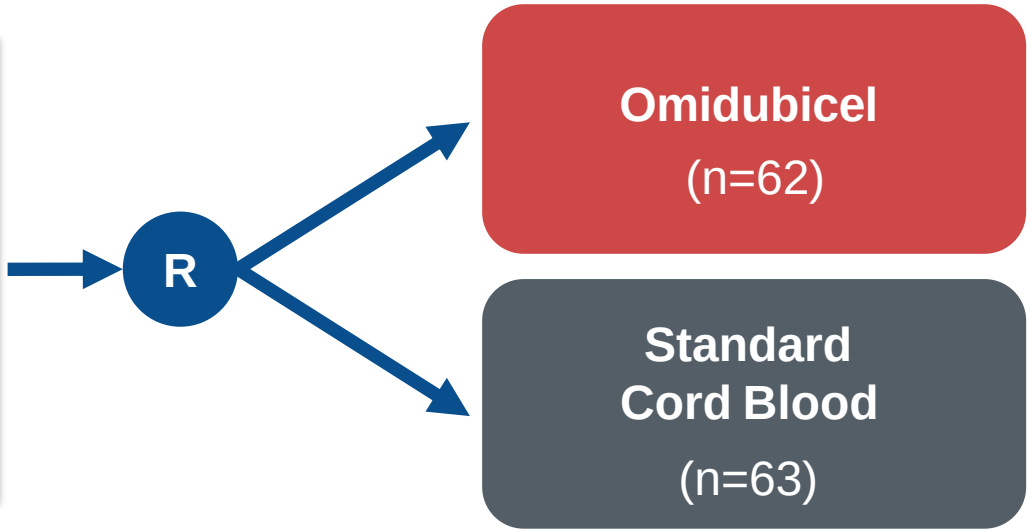
Reliable delivery in 30 days from order

Horwitz et al. Blood. 2021;138:1429-1440. Omidubicel is investigational and safety and efficacy have not been established by any agency.

Phase 3 global randomized study to evaluate the efficacy of omidubicel compared to standard cord blood

Randomized, Controlled, Multi-center, Global Phase 3 Registration Trial*

- **Age 12-65**
- **High-risk hematologic malignancies**
- **Eligible for allo-HSCT**
- **No readily available matched donor**



Primary endpoint: Time to neutrophil engraftment

Secondary endpoints: Platelet engraftment, infections, hospitalizations

Additional endpoints: Adverse events, acute GvHD, chronic GvHD, non-relapse mortality, disease-free survival, overall survival

>40% of patients in the trial were **ethnically diverse**

*Trial Schema reviewed with FDA

Horwitz et al. Blood. 2021;138:1429-1440. ASH 2021: Allogeneic Stem Cell Transplantation with Omidubicel: Long-Term Follow-up (Dr. Lin, Duke). Allogeneic Hematopoietic Stem Cell (Allo-HSCT) Transplant with Omidubicel Demonstrates Sustained Clinical Improvement Versus Standard Myeloablative Umbilical Cord Blood Transplantation (UCBT): Final Results of a Phase III Randomized, Multicenter Study. Horwitz et. at.

Omidubicel is investigational and safety and efficacy have not been established by any agency.

PRIMARY ENDPOINT: Time to Neutrophil Engraftment (ITT)

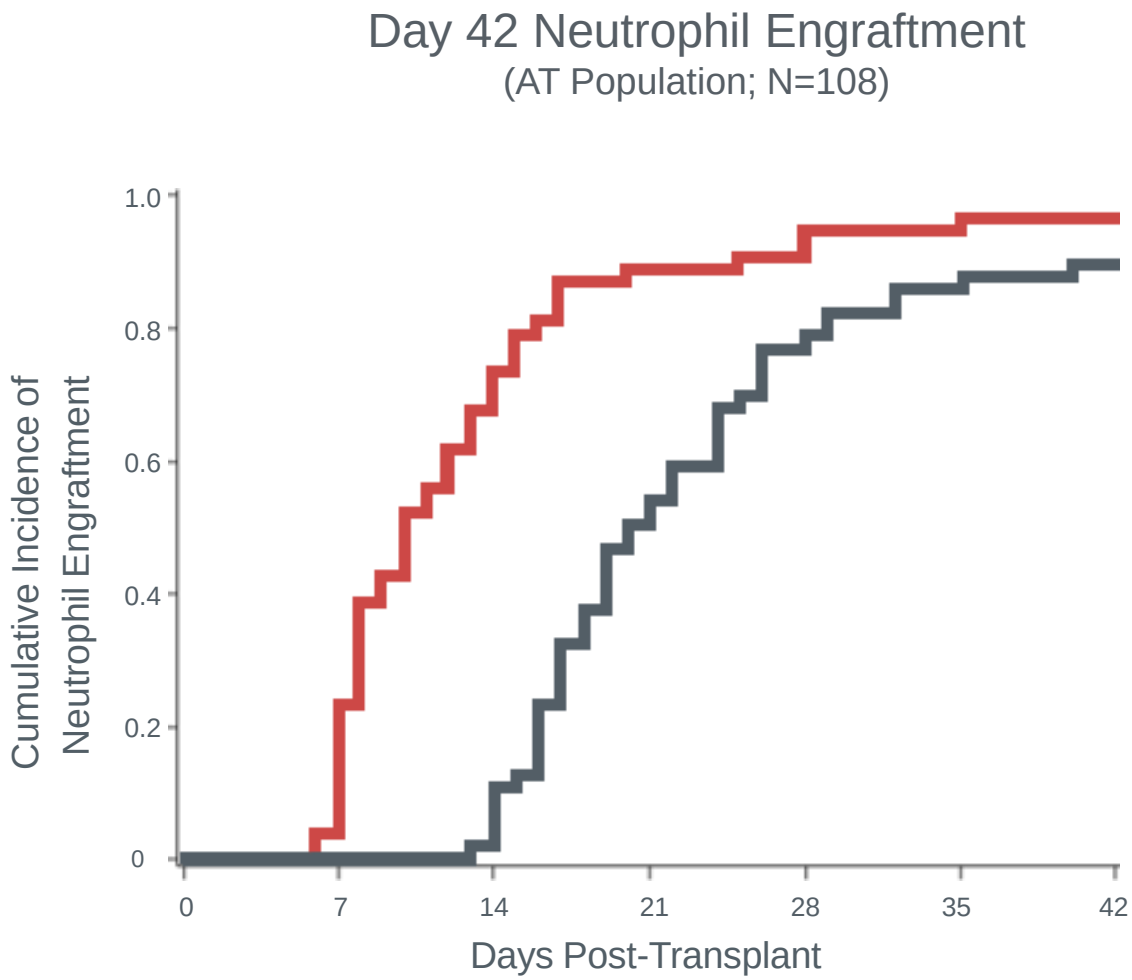
Intent-to-treat	Median Time to Neutrophil Engraftment (Days)[a]	95% CI	*P* Value
Omidubicel (N=62)	**12.0**	**(10.0, 14.0)**	**<0.001[b]**
Cord Blood (N=63)	**22.0**	**(19.0, 25.0)**	

Engraftment is a key milestone in recovery

Rapid engraftment is associated with fewer infections and shorter hospitalizations[1]

ITT, intent-to-treat. Horwitz et al. Blood. 2021;138:1429-1440.
Omidubicel is investigational and safety and efficacy have not been established by any agency.

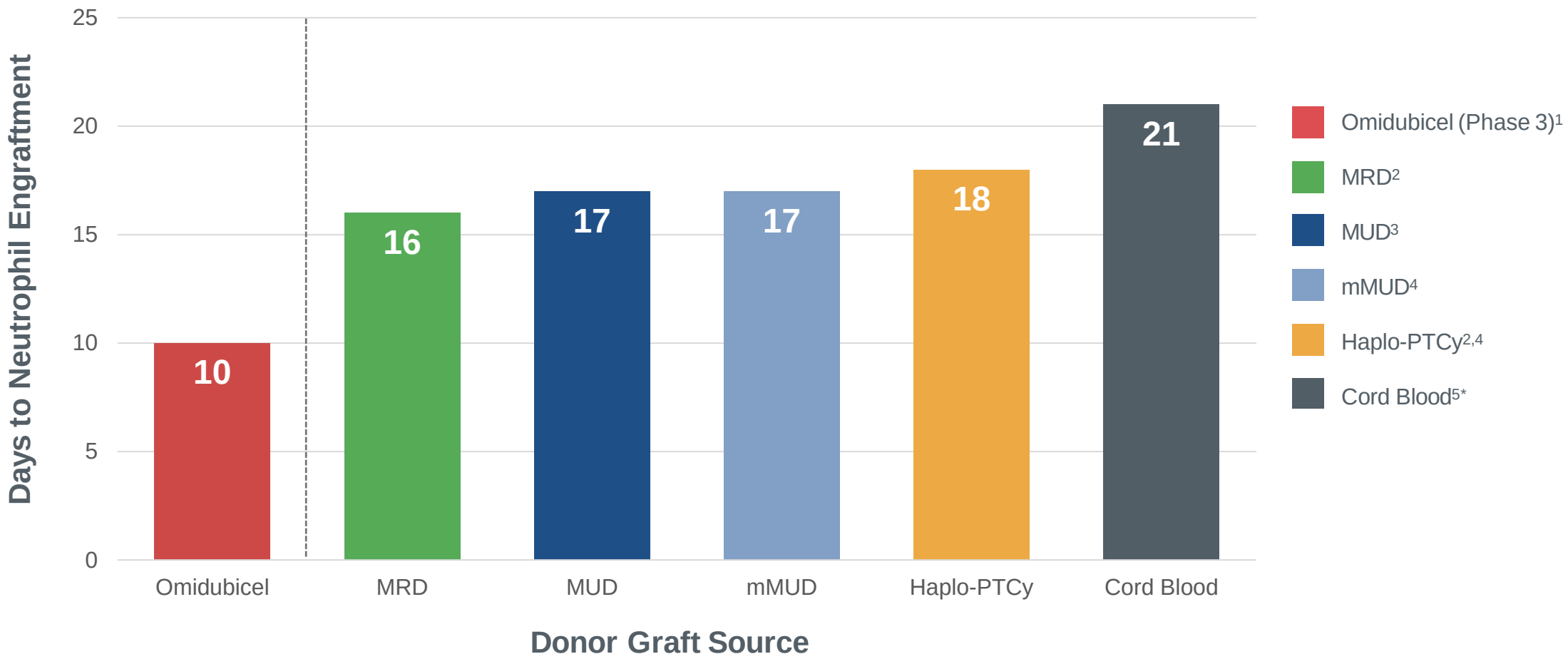
Significantly faster time to neutrophil engraftment in as-treated population



Median Time to Neutrophil Engraftment (Days)	*P* value
Omidubicel: 10 (95% CI: 8, 13)	<0.001
Cord Blood: 20 (95%CI: 18, 24)	

AT, as-treated. Horwitz et al. Blood. 2021;138:1429-1440.
Omidubicel is investigational and safety and efficacy have not been established by any agency.

Omidubicel has the shortest neutrophil engraftment time compared to published results for other HSCT donor sources



* Results represent double-cord transplants

1. Horwitz et al. Blood. 2021;138:1429-1440. 2. Salvatore D, et al. Haematologica. 2018; 103(8):1317-28; 3. Mary M. Horowitz, MD, MS. Haploidentical Transplantation: The Answer to our Donor Problems? CIBMTR, Medical College of Wisconsin. January 2017; 4. McCurdy SR, et al. Adv Hematol. 2015; 1-9.; 5. Horwitz ME, et al. J Clin Oncol. 2018; 37(5):367-74.

Omidubicel is investigational and safety and efficacy have not been established by any agency.

SECONDARY ENDPOINT: Platelet Engraftment (ITT)

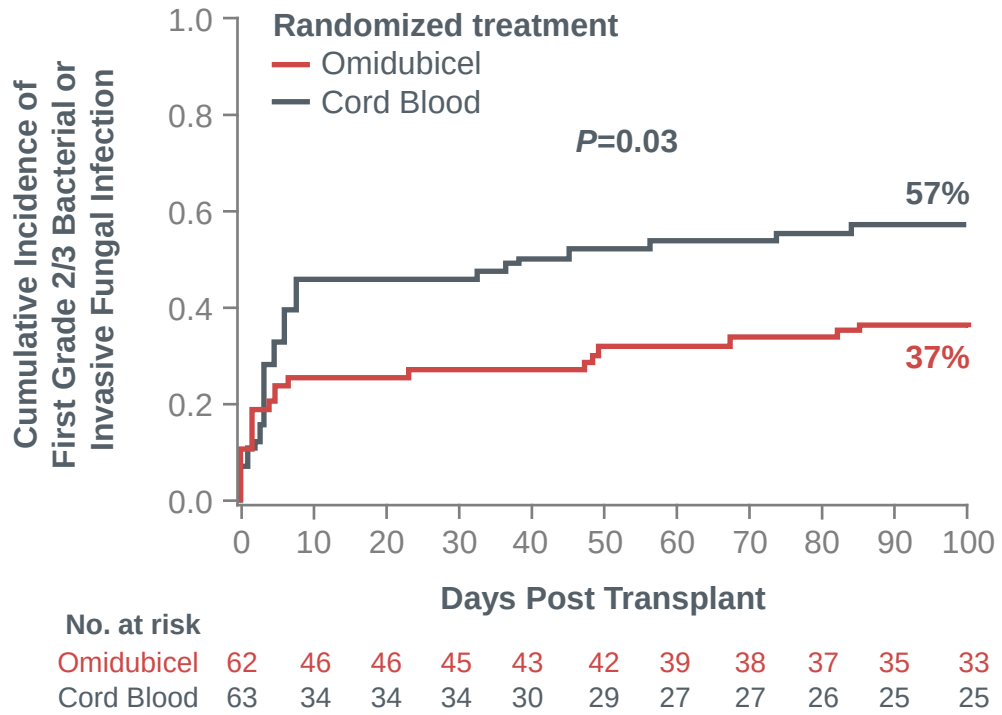
Platelet Engraftment by Day 42 (ITT; N=125)

Intent-to-treat	Day 42 Cumulative Incidence	Difference in Cumulative Incidence (95% CI)	*P* Value
Omidubicel (N=62)	0.55	0.2 (0.03,0.35)	0.028
Cord Blood (N=63)	0.35		

ITT, intent-to-treat. Horwitz et al. Blood. 2021;138:1429-1440..
Omidubicel is investigational and safety and efficacy have not been established by any agency.

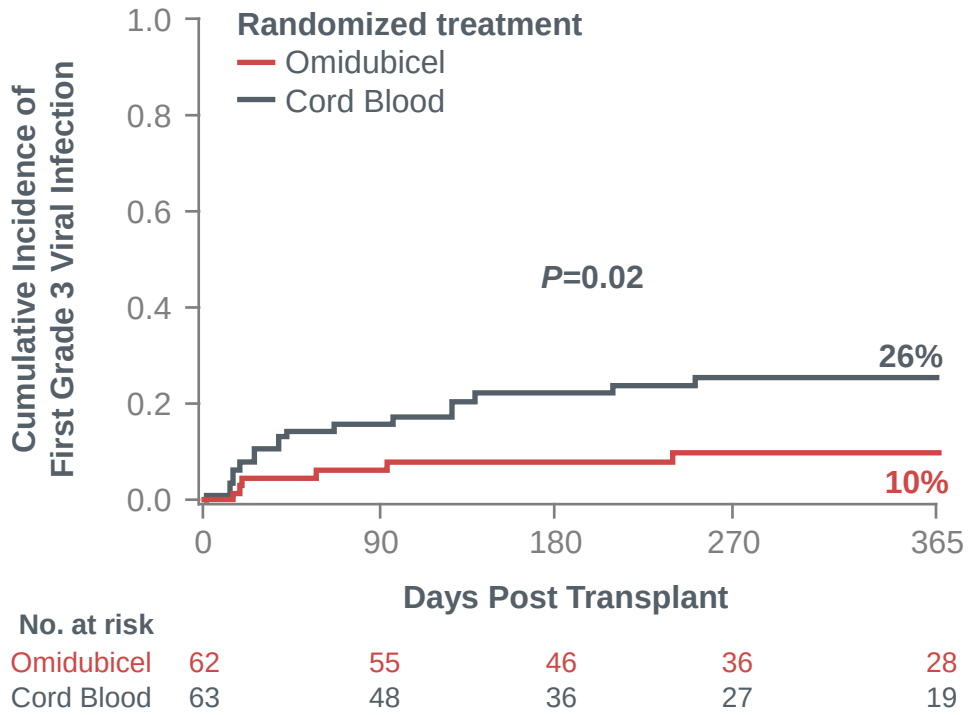
Transplant With Omidubicel: Reduced Risk of Bacterial, Fungal, and Viral Infections

Incidence of First Grade 2/3 Bacterial or Invasive Fungal Infections in ITT (N=125)



No. at risk											
Omidubicel	62	46	46	45	43	42	39	38	37	35	33
Cord Blood	63	34	34	34	30	29	27	27	26	25	25

Incidence of First Grade 3 Viral Infection in ITT (N=125)

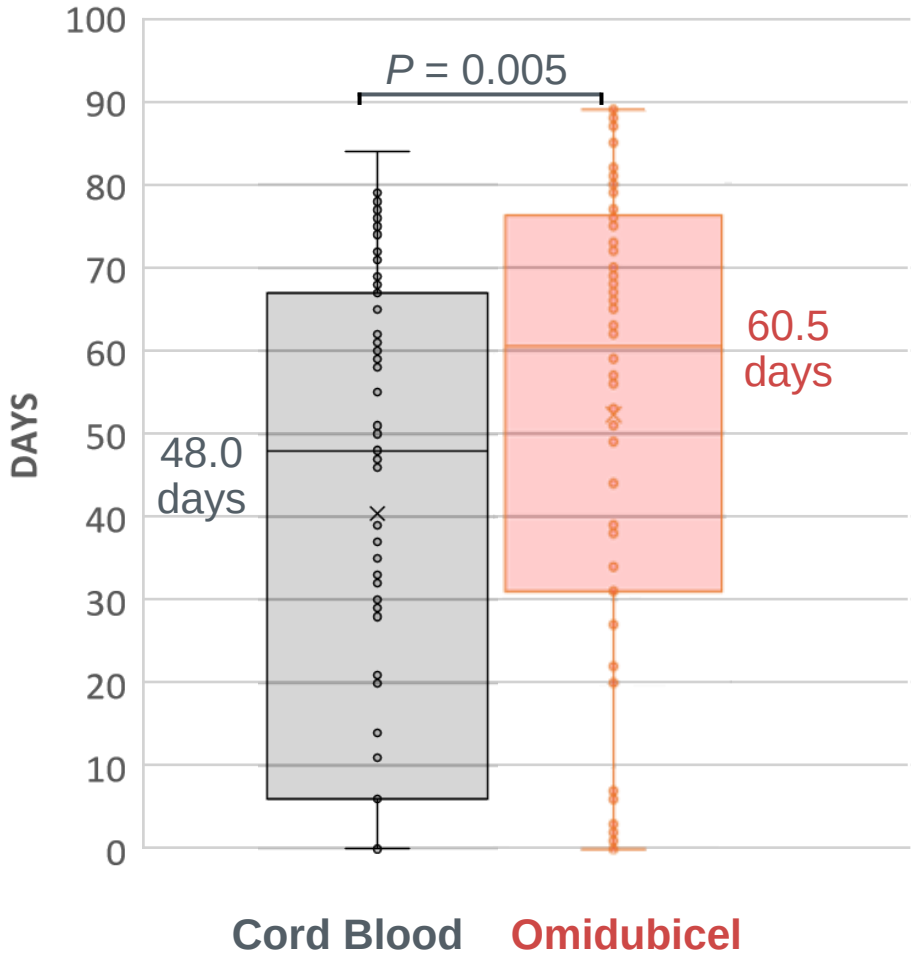


No. at risk					
Omidubicel	62	55	46	36	28
Cord Blood	63	48	36	27	19

Rates of acute and chronic GvHD were similar in both groups

GvHD, graft-versus-host disease; ITT, intent-to-treat; UCB, umbilical cord blood. Horwitz et al. Blood. 2021;138:1429-1440.
Omidubicel is investigational and safety and efficacy have not been established by any agency.

SECONDARY ENDPOINT: Omidubicel significantly reduced total hospitalization in first 100 days (ITT)



Treatment Received	Median Time From Transplant to First Discharge	*P* Value
Omidubicel	25	<0.001
Cord Blood	33	

ITT, intent-to-treat. Horwitz et al. Blood. 2021;138:1429-1440.
Omidubicel is investigational and safety and efficacy have not been established by any agency.

Robust immune reconstitution was demonstrated across multiple innate immune cells: *Selected as a Best Abstract TCT 2022*

Sub-study of the Phase 3 trial (n=37): 17 omidubicel, 20 standard cord blood

Robust early recovery observed
for T cell, B cell, NK cell, and dendritic cell subsets
(Day 0-28)

Durability of recovery observed
for up to 1 year post-transplant
(Day 100-365)

Potential mechanistic support for the lower rates of severe infection observed in patients treated with omidubicel

Szabolcs P, Levy S, Yackoubov, D, et al. Hematopoietic Stem Cell Transplantation (HSCT) With Omidubicel Is Associated With Robust Immune Reconstitution and Lower Rates of Severe Infection Compared to Standard Umbilical Cord Blood Transplantation. Oral presentation at: 2021 ASH Annual Meeting and Exposition; December 2021; Atlanta, GA.
Omidubicel is investigational and safety and efficacy have not been established by any agency.

Outcomes suggest potential for significant reductions in healthcare resource utilization in the first 100 days post-transplant with omidubicel

Comparative results in first 100 days post-transplant

	Omidubicel (n=52)	Cord Blood (n=56)	*P-value*
Incidence of acute GvHD	15%	20%	0.563
Mean total number of inpatient days during primary hospitalization (transplant to discharge)	27.7	39.8	<0.001
Mean total number of inpatient days (includes readmissions)	41.2	50.8	0.027
Mean total days alive and not hospitalized	55.8	43.7	0.023
Mean total number of days in the ICU	0.4	4.7	0.028
Average number of transfusions per patient	24.8	35.4	0.0005
Average number of consultant visits**	6.8	20.1	0.015

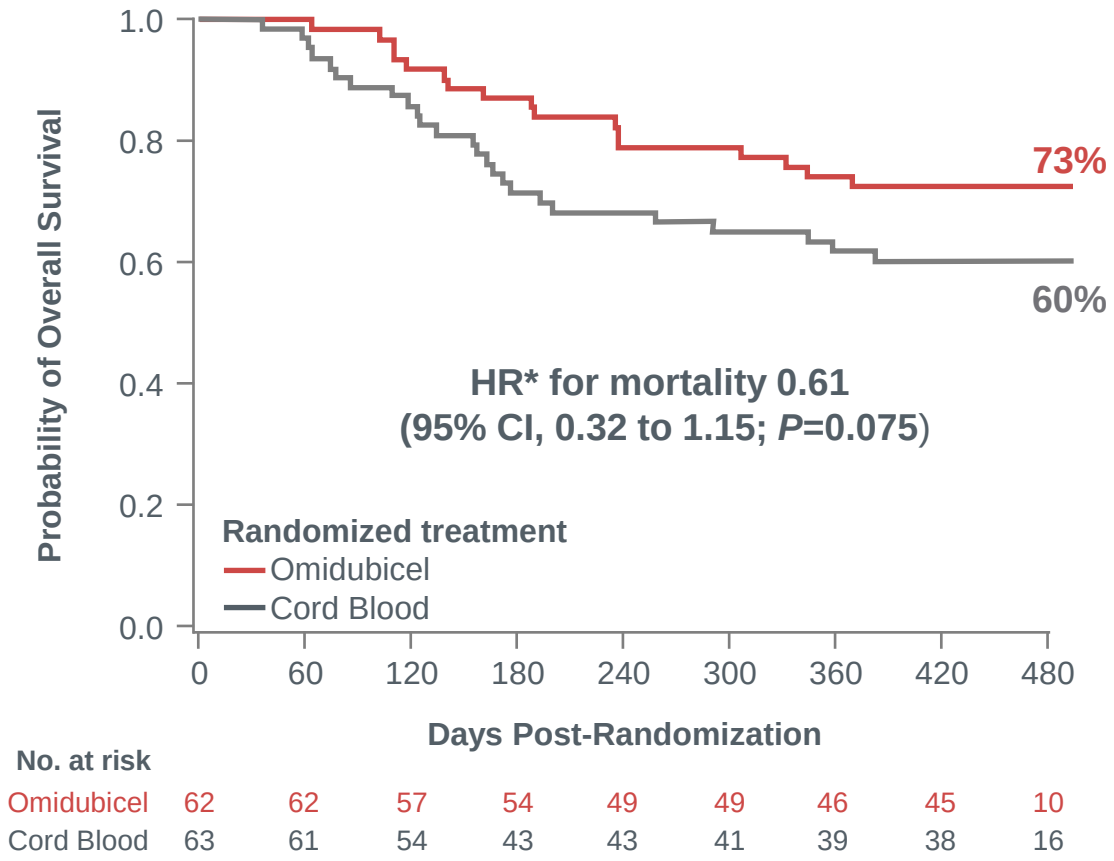
* AT Population; N=108
** e.g. ID, dermatology, GI, cardiology, neurology, surgery

AT, as-treated. ASH 2021: Hospitalization and Healthcare Resource Use of Omidubicel (Dr. Majhail, SCRI)
Omidubicel is investigational and safety and efficacy have not been established by any agency.

Overall Survival of 73% after one year of follow-up post-transplantation

At 1 year post transplantation, a 13% increase in OS with omidubicel (95% CI: –5% to 28%; P=0.13)

Overall Survival by 1 Year Post Transplantation in ITT (N=125)



No. at risk									
Omidubicel	62	62	57	54	49	49	46	45	10
Cord Blood	63	61	54	43	43	41	39	38	16

*A post hoc analysis utilized a Cox Regression Model. CI, confidence interval; HR, hazard ratio; ITT, intent-to-treat; OS, overall survival; UCB, umbilical cord blood.
Omidubicel is investigational and safety and efficacy have not been established by any agency.

The totality of the omidubicel data powers our commitment to cures

- Ability to identify matches for patients of racial minorities
- Shortest neutrophil engraftment time compared to published results for other donor sources
- Shorter time to platelet engraftment
- Reduced cumulative incidence of infection
- Reduced hospitalization time for patients
- Trend to improved overall survival

Rolling BLA submission completed in June 2022

Horwitz et al. Blood. 2021;138:1429-1440.. 2. Salvatore et al. Haematologica. 2018;103(8):1317-1328. 3. Horowitz, MD, MS. Haploidentical Transplantation: 4. The Answer to our Donor Problems? CIBMTR, Medical College of Wisconsin. January 2017. 5. McCurdy et al. Adv Hematol. 2015;1-9. 6. Horwitz et al. J Clin Oncol. 2019;37(5):367-374.
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Omidubicel

Preparing for potential commercial launch

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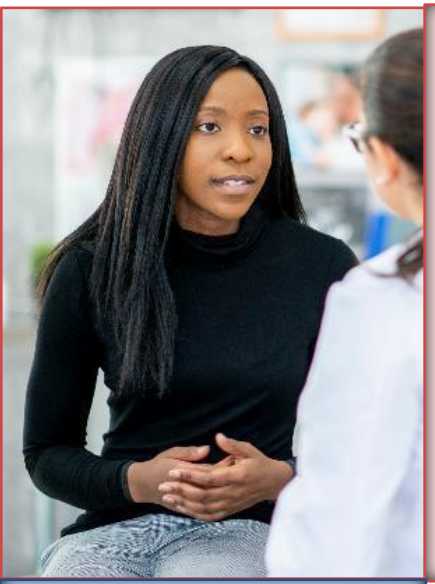
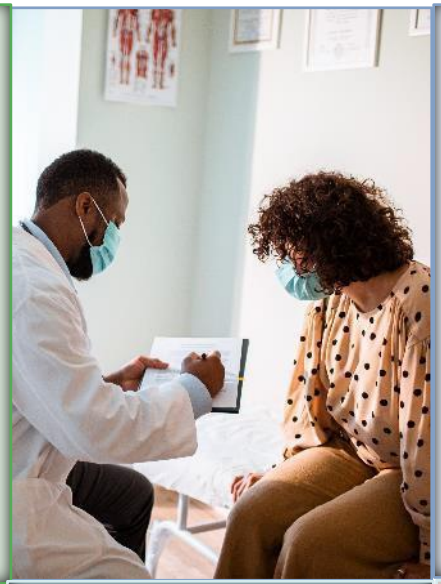
If approved, omidubicel may provide transplanters the opportunity to offer a potential cure to patients in need



A minority patient with no timely MRD, MUD, or haplo option

A patient with matched siblings who are of advanced age and only mismatched donors identified in the registry



A patient with an MRD available, but social barriers present dangerous risk of delay

A patient with an identified unrelated donor who has an inflexible schedule and an HCP seeking a faster path to transplant

A patient with a CBU identified and an HCP concerned about engraftment time and infection risk

A patient with a haploidentical sibling and an HCP concerned about infection risk

Omidubicel is investigational and safety and efficacy have not been established by any agency. Patient profiles represent potential patients only.

We are actively navigating reimbursement dynamics and payer coverage considerations

Gamida Cell is proactively educating payers that account for 90% of U.S. covered lives

We anticipate coverage at the time of approval…

Published data supports that ~100% of U.S. payers anticipate covering one-time therapies with curative intent

Gamida has a strong understanding of the reimbursement approach that payers will take upon omidubicel FDA approval

…and a pathway to reimbursement

Omidubicel is investigational and safety and efficacy have not been established by any agency.

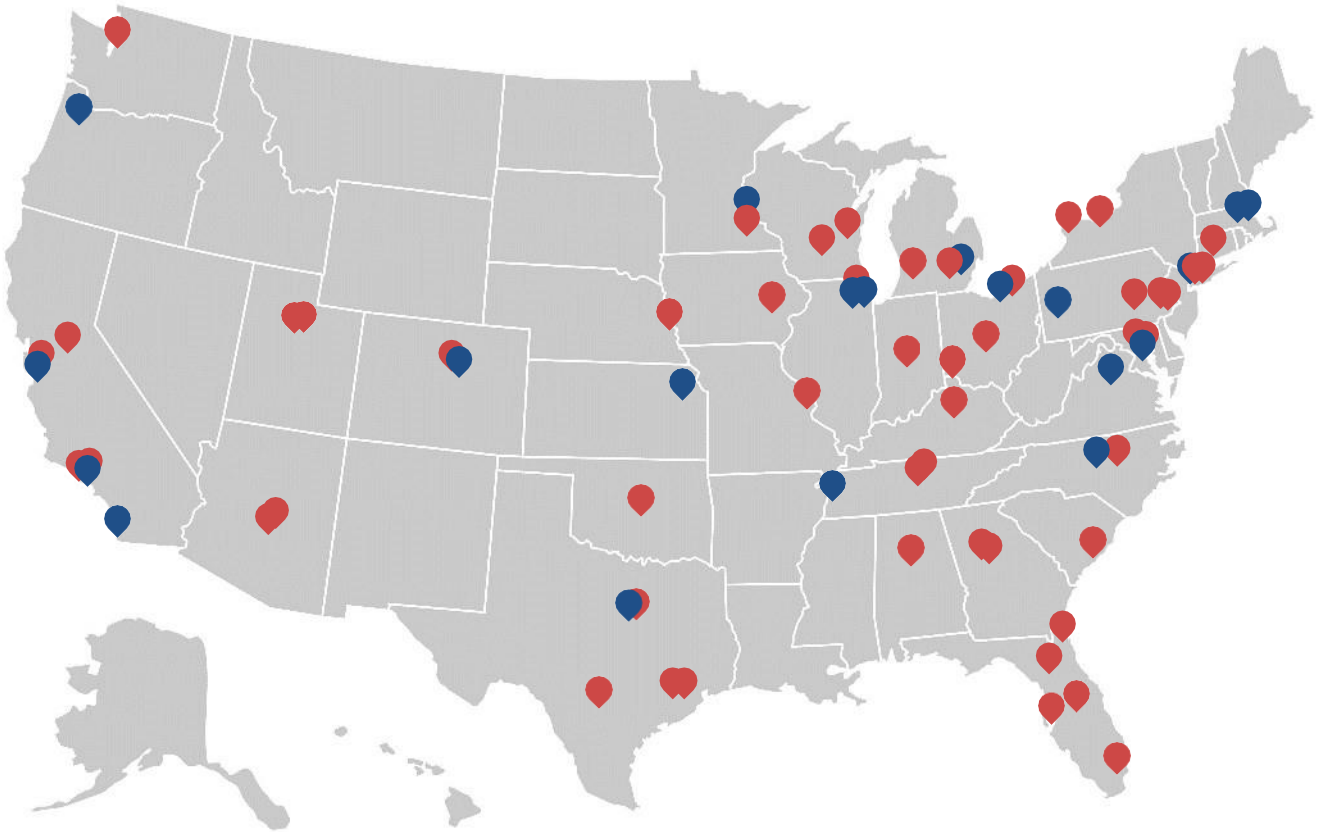
Our commercial manufacturing facility will ensure consistent and reliable product supply

- State-of-the art facility in Israel
- Modular facility with capability to add capacity
- Personalized product delivered within 30 days of selection of cord blood unit

Photos of Gamida Cell's state-of-the-art facility

Omidubicel is investigational and safety and efficacy have not been established by any agency.

We have initiated partnerships to educate and onboard Transplant Centers across the United States



Approximately 70 Transplant Centers account for ~80% of allo-HSCTs performed in U.S.

- Transplant Centers
- Omidubicel Clinical Trial Sites

CIBMTR 2019 Summary Slides.

Omidubicel is investigational and safety and efficacy have not been established by any agency.

gamida cell

If approved, omidubicel has the opportunity to improve outcomes and increase access for patients

A quantitative demand study was conducted with 109 transplant physicians across the U.S.

Omidubicel has the opportunity to:

Improve outcomes across all current donor sources

- Positive clinical outcomes
- Removed concern of advanced donor age
- Personalized product delivered within 30 days

Increase access for those patients not transplanted today

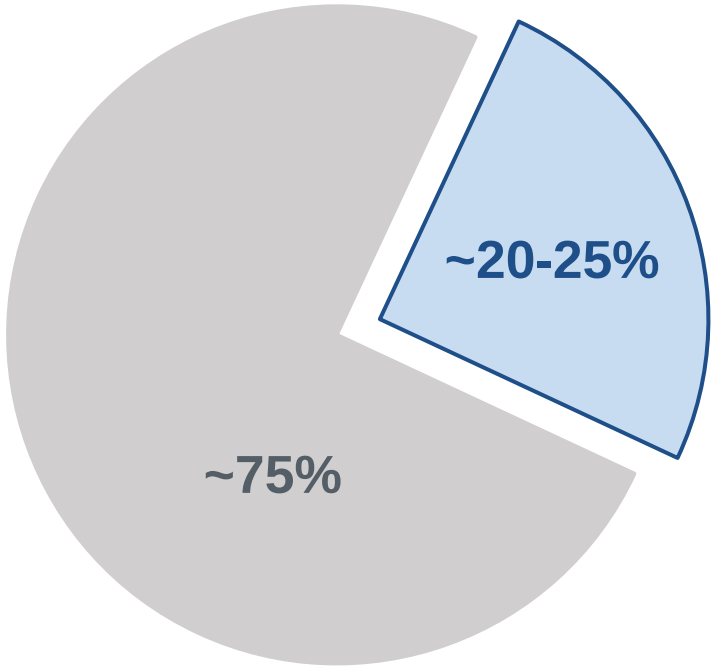
- Ability to find a suitable donor
- Improved access for minority patients
- Rapid and reliable availability

Gamida Cell Primary Market Research

Omidubicel is investigational and safety and efficacy have not been established by any agency.

If approved, omidubicel may achieve ~20-25% of the market at peak

~11,000 patients with hematologic malignancies are expected to receive allo-HSCT in 2026*



Omidubicel has the potential to impact ~2,000-2,500 patients by

- increasing the number of patients able to access an appropriate donor and,
- being a preferred choice over other donor options

*Reflects 2025-2026 peak estimate; includes patients 12+

All Other Donor Sources Omidubicel

Gamida Cell Primary Market Research
Omidubicel is investigational and safety and efficacy have not been established by any agency.

GDA-201

NAM-enabled NK cell candidate to treat Non-Hodgkin Lymphoma

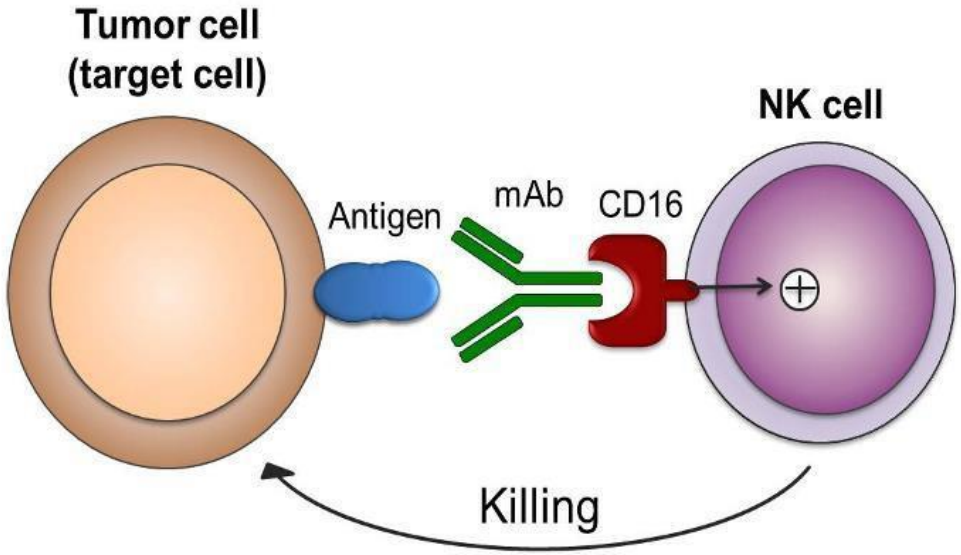
gamida cell

Natural Killer (NK) cells are a promising immune therapy for cancer

Promise of NK Cells

- Fully allogeneic product (no HLA matching required)
- Synergy with antibodies
- Potential to stimulate adaptive immunity
- Potential for readily available therapy

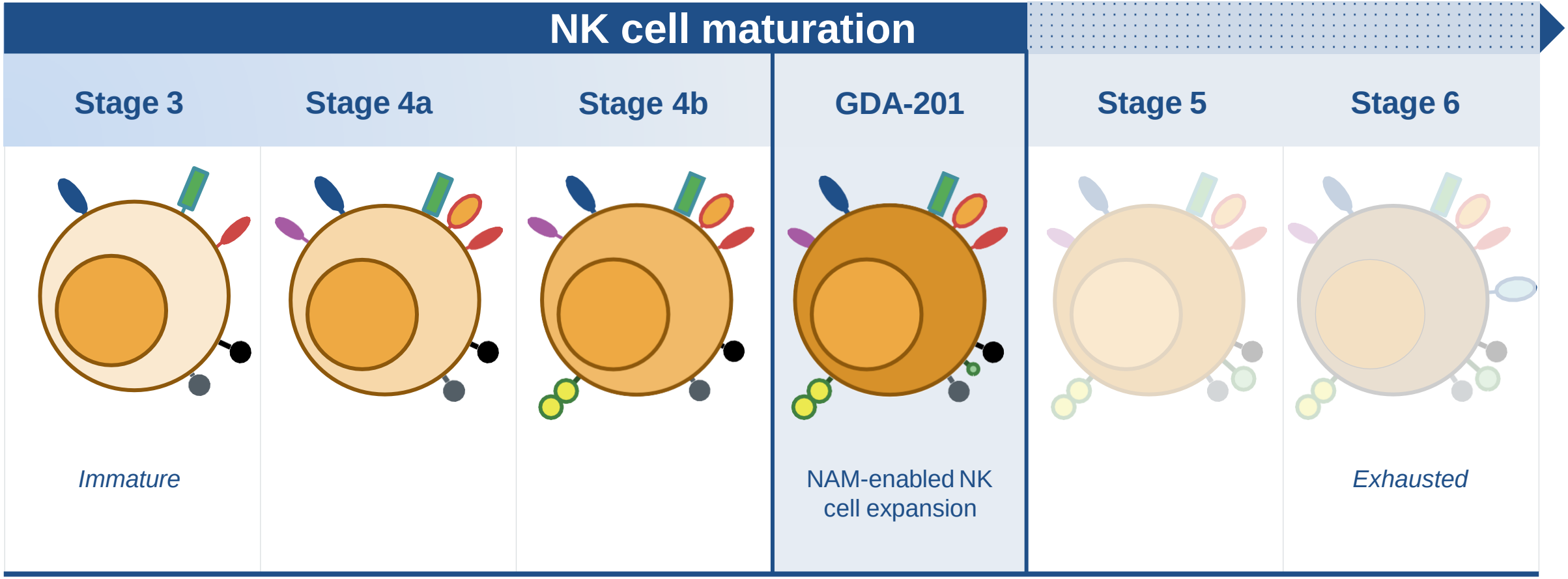
NK Cell Function



Cell expansion is necessary to obtain clinically meaningful doses with optimized cell function

We are putting NK cells to work using our NAM Platform

NAM optimizes NK cell phenotype during manufacturing to ensure product functionality



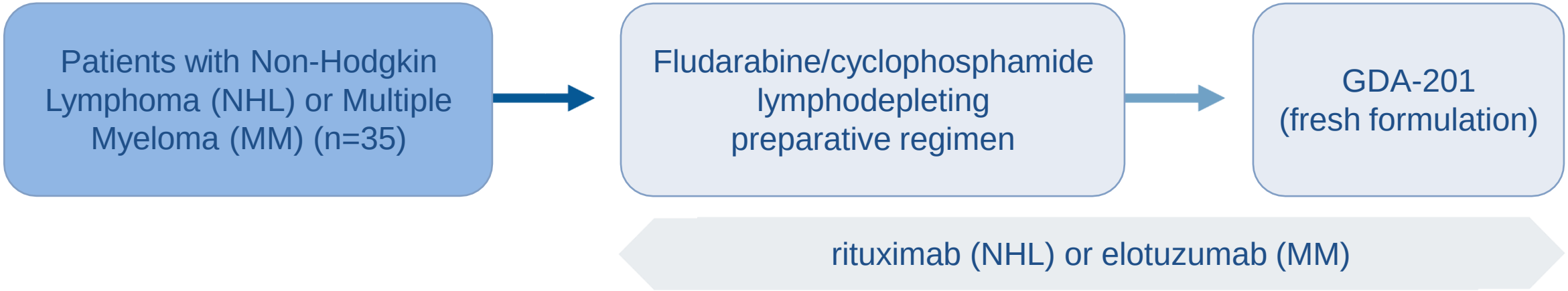
Natural Killer Cells: Development, Maturation, and Clinical Utilization. *Frontiers in Immunology*, 2018

GDA-201 is investigational and safety and efficacy have not been established by any agency.

gamida cell

GDA-201: A first-in-class NAM-enabled NK cell therapy candidate

Investigator-led, Phase 1, proof of concept study for patients with NHL and MM



- **Primary endpoint:** Maximum tolerated dose of GDA-201
- **Secondary endpoints:** Overall response, toxicity

Bachanova et al., ASH 2021. https://clinicaltrials.gov/ct2/show/NCT03019666
GDA-201 is investigational and safety and efficacy have not been established by any agency.

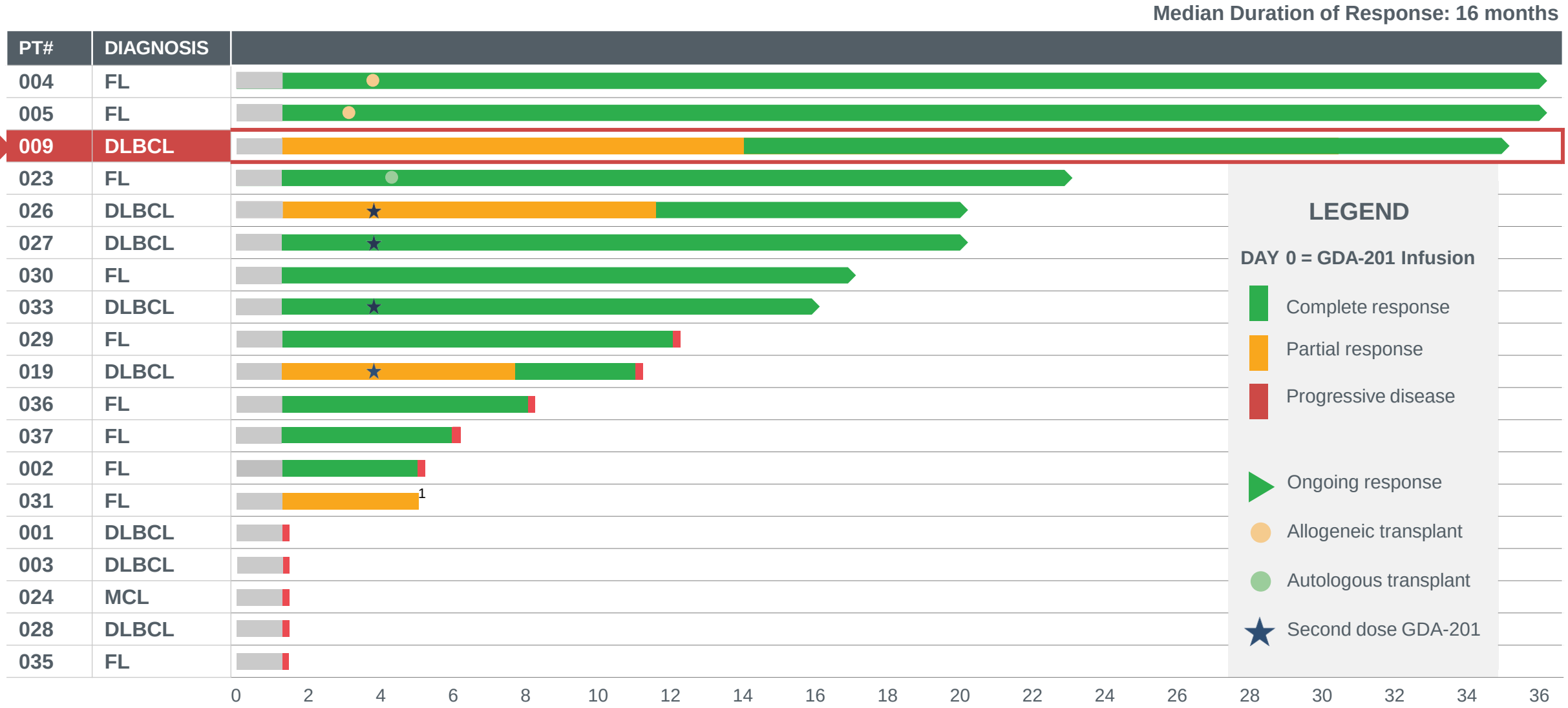
Phase 1 experience with GDA-201 and rituximab demonstrated a positive safety profile

Safety Results

- 35 patients treated (19 NHL, 16 MM)
- No dose-limiting toxicities
- Most common grade 3/4 adverse events:
  - Thrombocytopenia (n=9)
  - Hypertension (n=5)
  - Neutropenia (n=4)
  - Febrile neutropenia (n=4)
  - Anemia (n=3)
- No neurotoxic events, graft versus host disease (GvHD), or confirmed cytokine release syndrome
- One patient died of E. coli sepsis, initially reported as cytokine release syndrome

Bachanova et al., ASH 2021.
NHL: non-Hodgkin lymphoma; MM: multiple myeloma; CRS: cytokine release syndrome
GDA-201 is investigational and safety and efficacy have not been established by any agency.

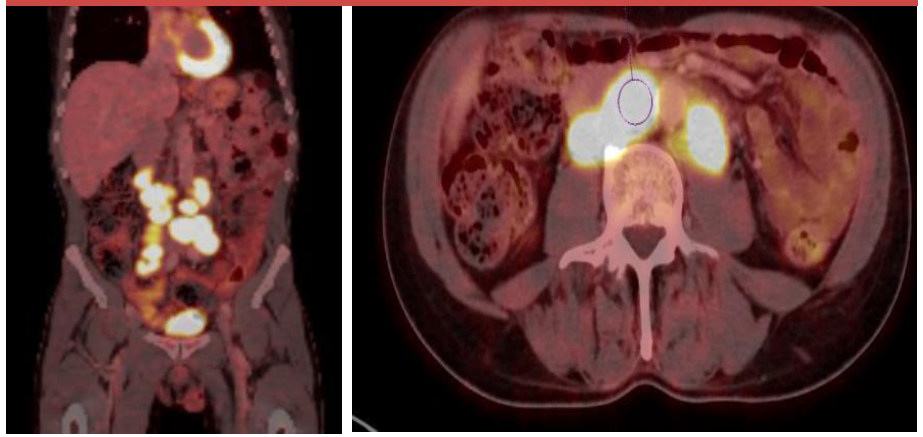
Multiple patients treated with GDA-201 and rituximab had durable complete responses demonstrating an ORR of 74% and CR rate of 68%



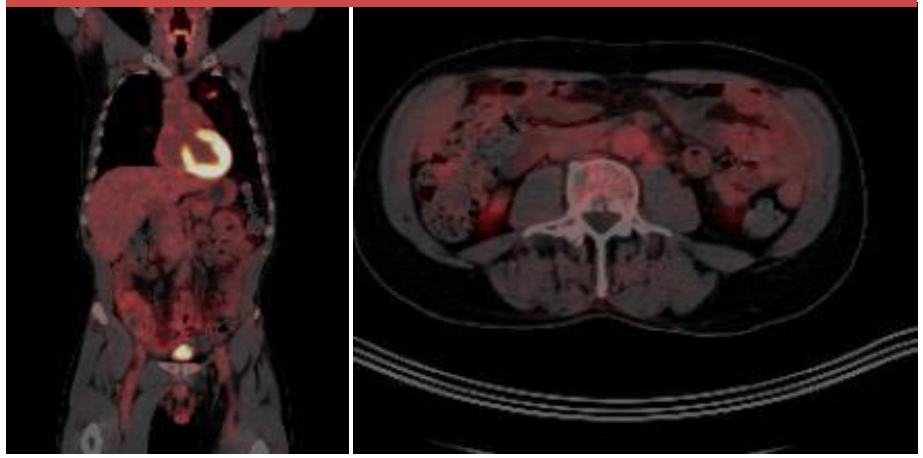
GDA-201 is investigational and safety and efficacy have not been established by any agency.
Bachanova et al., ASH 2021.
DLBCL: diffuse large B-cell lymphoma; FL: follicular lymphoma; LD: lymphodepleting; MCL: mantle cell lymphoma. 1. Died of Covid.

Additionally, in a heavily pretreated lymphoma patient, complete responses were demonstrated

Pt 009: Baseline



Pt 009: 6-month post GDA-201



- 57-year-old man with history of CLL and Richter's transformation-large cell lymphoma, measurable retroperitoneal lymph nodes at baseline
- Prior therapy: FCR-light, Rituximab/Bendamustine Ibrutinib/lenalidomide, R-CHOP, Venetoclax/Rituximab
- Allogeneic HSCT (matched sibling)
- Relapse at 6 months
- Treated with GDA-201
- 28-day response: tumor shrinkage
- 6 months: PR with continued tumor shrinkage
- Demonstrated PR to CR conversion after 12 months, continued CR at ~3 years
- NK cells cleared within 2 weeks

"Whether it has been work, or my various hobbies and past times, whether that be traveling on motorcycle or enjoying life to its fullest, it really has been a noticeable improvement compared to how things were prior to going through the trial."- **Patient 009**

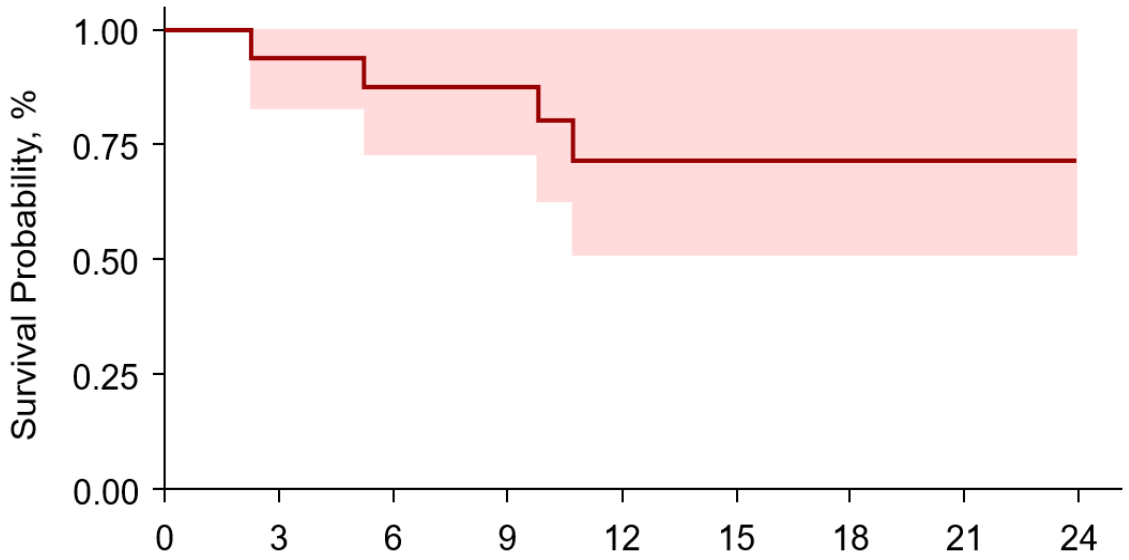
Bachanova et al. ASH 2019. This is one patient and results may not be indicative. GDA-201 is investigational and safety and efficacy have not been established by any agency.

GDA-201 is investigational and safety and efficacy have not been established by any agency.

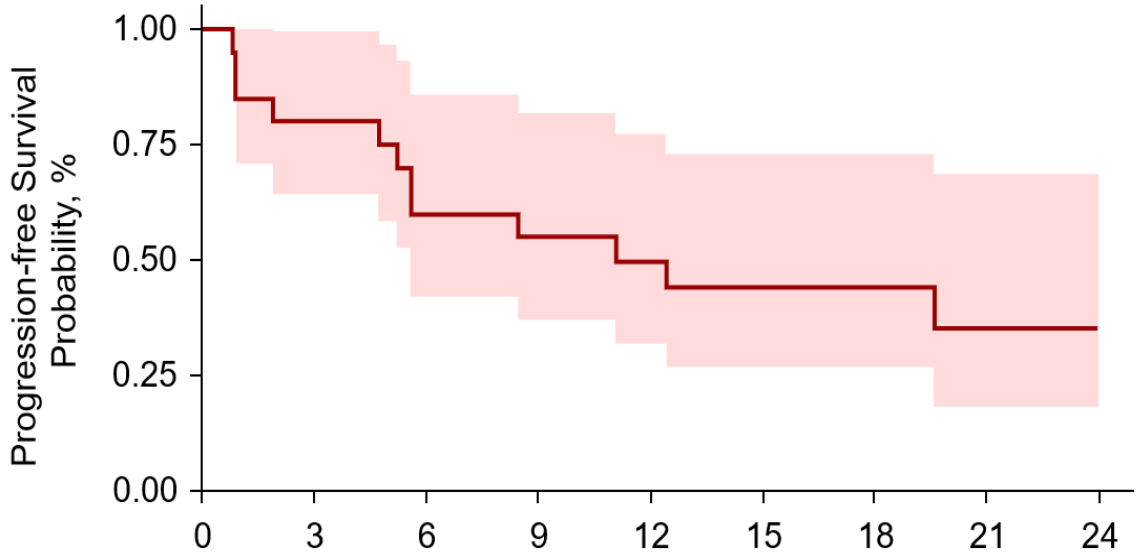
GDA-201 demonstrated 2-year overall survival of 78%

At a median follow-up of 11 months (range, 1–36)

2-year OS: 78% (95% CI, 51%–91%)



- **1-year PFS: 50% (95% CI, 27%–69%)**
- **2-year PFS: 35% (95% CI, 14%–58%)**



CI, confidence interval; OS, overall survival; PFS, progression-free survival
GDA-201 is investigational and safety and efficacy have not been established by any agency.

We are leveraging our knowledge of cryopreservation to further advance our NK pipeline

GDA-201 cryopreserved formulation maintains phenotype expression, cytotoxicity function, and enhanced potency

Peripheral bone marrow cells collected by apheresis*

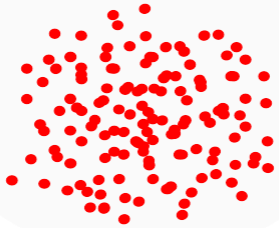
HEALTHY DONOR

Seed CD3- cells

DAY 0

Proprietary co-culture with NAM +IL-15 + autologous irradiated CD3+ feeder cells

Highly functional NK cells:
~50-100 billion NK cells with purity >99%



DAY 14

Proprietary infusion ready **cryopreserved product;** exhibits high viability up to six months post-thaw

*One apheresis procedure can provide treatment for 5-10 patients

1. Horwitz et al. *Blood*. 2021;138:1429-1440. 2. Peled et al. *Exp Hematol.* 2012;40:342-55.e1.
GDA-201 is investigational and safety and efficacy have not been established by any agency.

Encouraging clinical activity and safety profile supports continued development

Key Accomplishments

- Preclinical proof of principle
- Clinical proof of concept
- Cryopreserved formulation

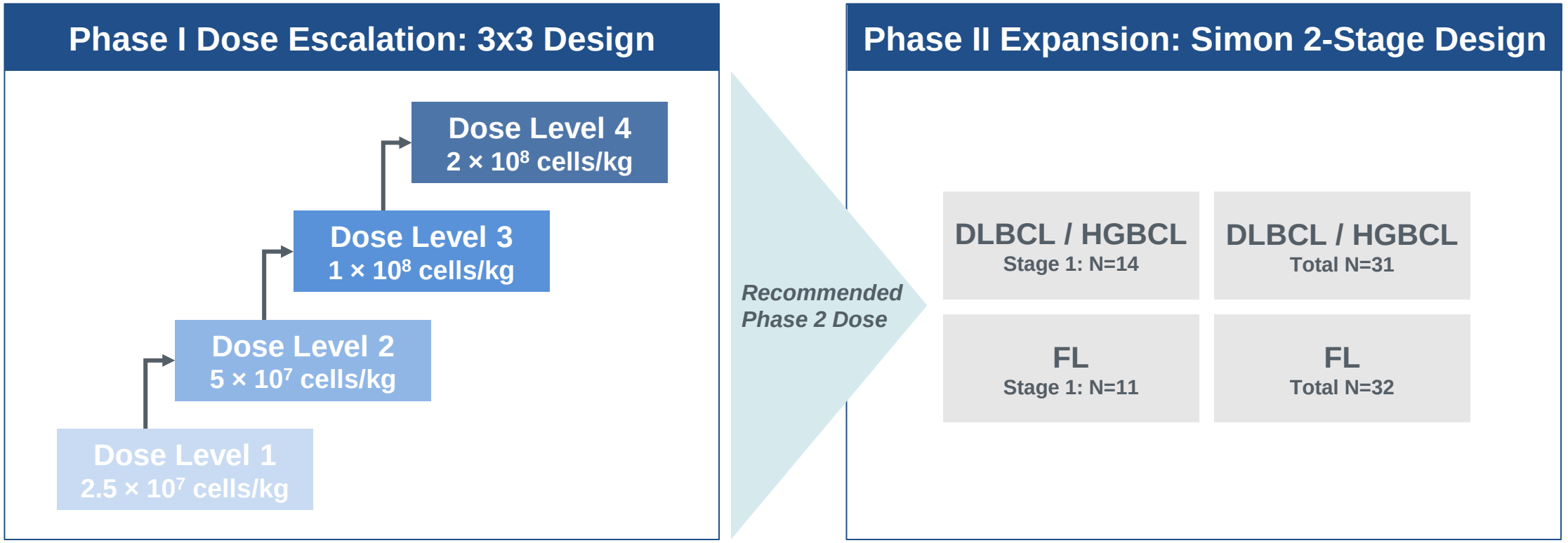
Next Step

Phase 1/2 multi-center study in lymphoma for cryopreserved GDA-201

GDA-201 is investigational and safety and efficacy have not been established by any agency.

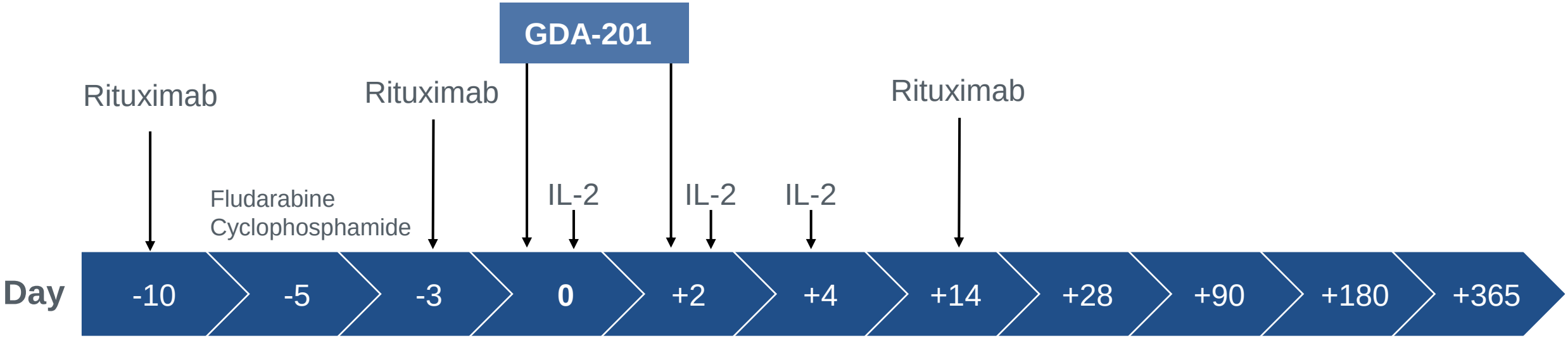
A Phase I/II multicenter study evaluating the safety and efficacy of allogeneic GDA-201 NK cells in patients with r/r B Cell Non-Hodgkin Lymphoma

- **Opening study sites in May 2022**
- **Estimated primary completion date July 2024**
- **Estimated study completion date February 2025**



GDA-201 is investigational and safety and efficacy have not been established by any agency.

Proposed Treatment Plan



Doses

Rituximab: 375 mg/m^2
Fludarabine: 30 mg/m2 IV x 3 days
Cyclophosphamide: 400 mg/m2 IV x 3 days
Interleukin-2 (IL-2): 6 million units SC

Enrollment Criteria

- **Age ≥ 18**
- **Relapsed/refractory B Cell FL or DLBCL**
  - **Received at least 2 prior lines of therapy (including anti-CD20 antibody)**
  - **Prior autologous or allogeneic hematopoietic stem cell transplant permitted**
  - **Prior chimeric antigen receptor modified T-cells (CAR-T) cell therapy permitted**
- **Measurable disease as defined by Lugano response criteria**
- **ECOG Performance Status of 0 or 1**
- **Adequate organ function, no active infection**

GDA-201 is investigational and safety and efficacy have not been established by any agency.

Engineered NK Cell Programs

Next-Generation of NAM-enabled NK Cell Therapy Candidates

gamida cell

Led by GDA-201 clinical proof of concept, Gamida Cell continues to invest in advancing a diversified NAM-enabled NK cell candidate pipeline

PROGRAM	STRATEGY	GENETIC MODIFICATION	INDICATION(S)
GDA-301	Increased potency and persistence	*CISH* KO + membIL-15	Hematologic + solid tumors
GDA-401	Undisclosed		
GDA-501	HER2 Targeting	HER2 CAR	HER2+ solid tumors
GDA-601	CD38 Targeting	CD38 KO + CD38 CAR	Multiple myeloma

A genetically modified NK cell therapy candidate will be selected for IND enabling study by the end of 2022

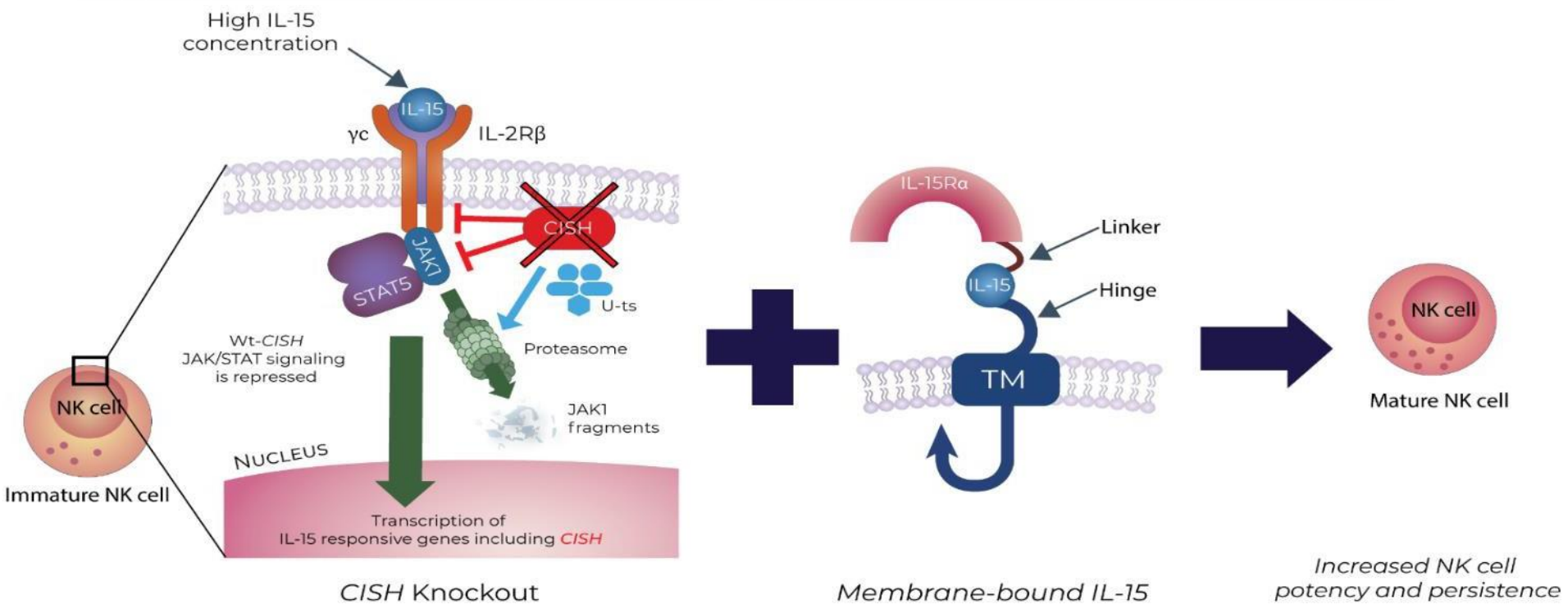
GDA-201, GDA-301, GDA-401, GDA-501, GDA-601 are investigational and safety and efficacy have not been established by any agency.

GDA-301: Enhancing NK potency and persistence

The lack of persistence of infused NK cells is a principal limitation of driving adaptive immunotherapy. Combining CISH KO with membrane-bound IL-15 will improve in vivo persistence and killing capacity, without concomitant IL-2 administration.

CISH deletion increases sensitivity to IL-15 by lowering the NK activation threshold

NKs equipped with membIL-15 will remove the need for patient IL-2 administration regimen

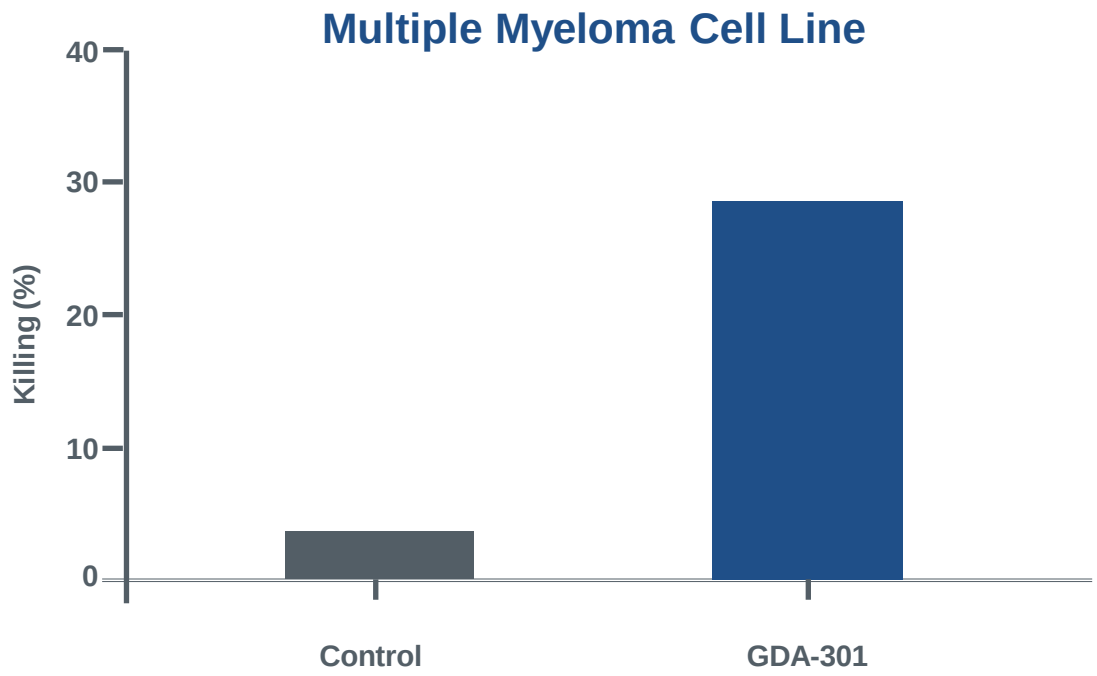


 GDA-301 is investigational and safety and efficacy have not been established by any agency.

gamida cell

GDA-301: Drives increased target cell killing in vitro

Deletion of CISH and co-expression of mb-IL15 on NK cells enhances their cytotoxicity activity



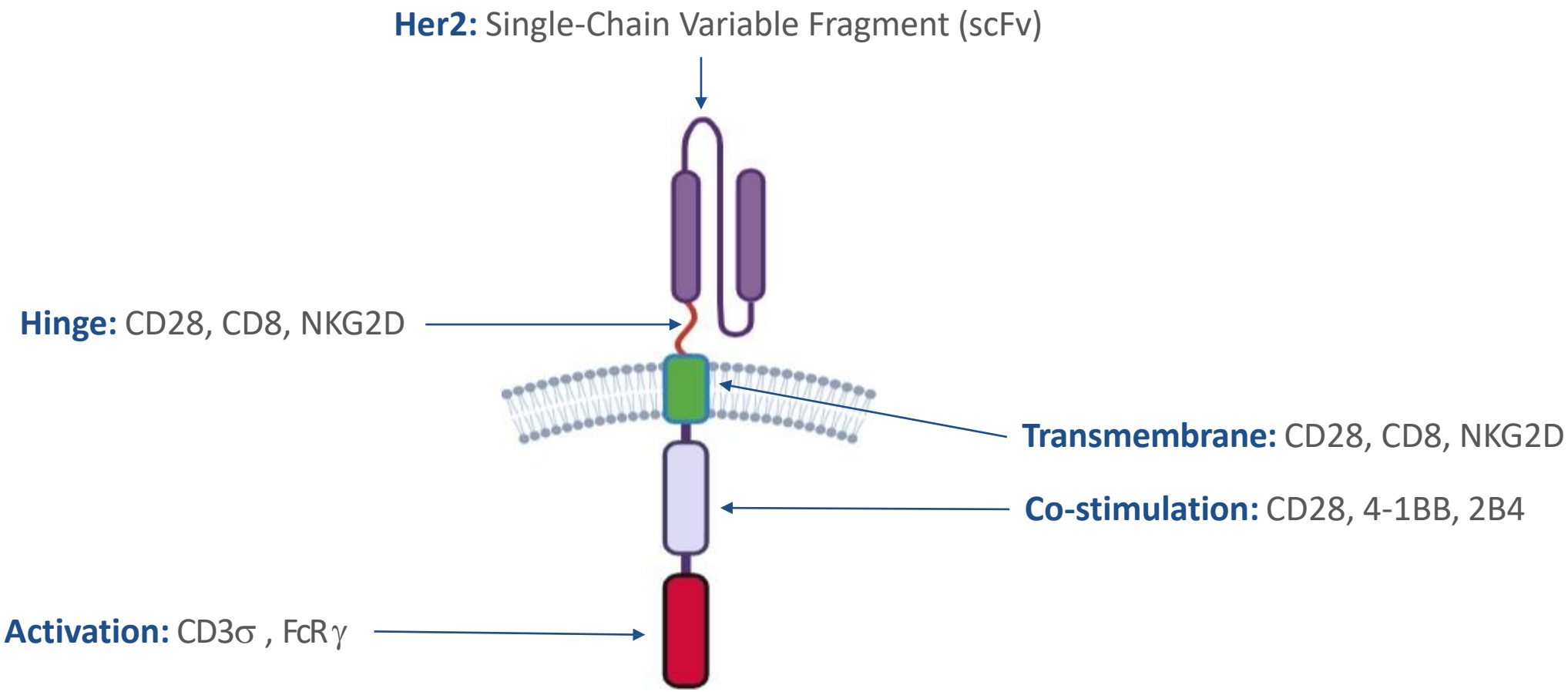
Killing assay was performed on CISH knockout cells, 24h after the electroporation of mRNA-mbIL-15 that followed a 6hr co-culture of NK cells with RPMI cell line, Ratio 5:1

 GDA-301 is investigational and safety and efficacy have not been established by any agency.

gamida cell

GDA-501: Developed to optimize targeting and NK activation against HER2+ tumors

Multiple tailor-made NK CARs were developed to target and activate NKs against HER2+ tumors

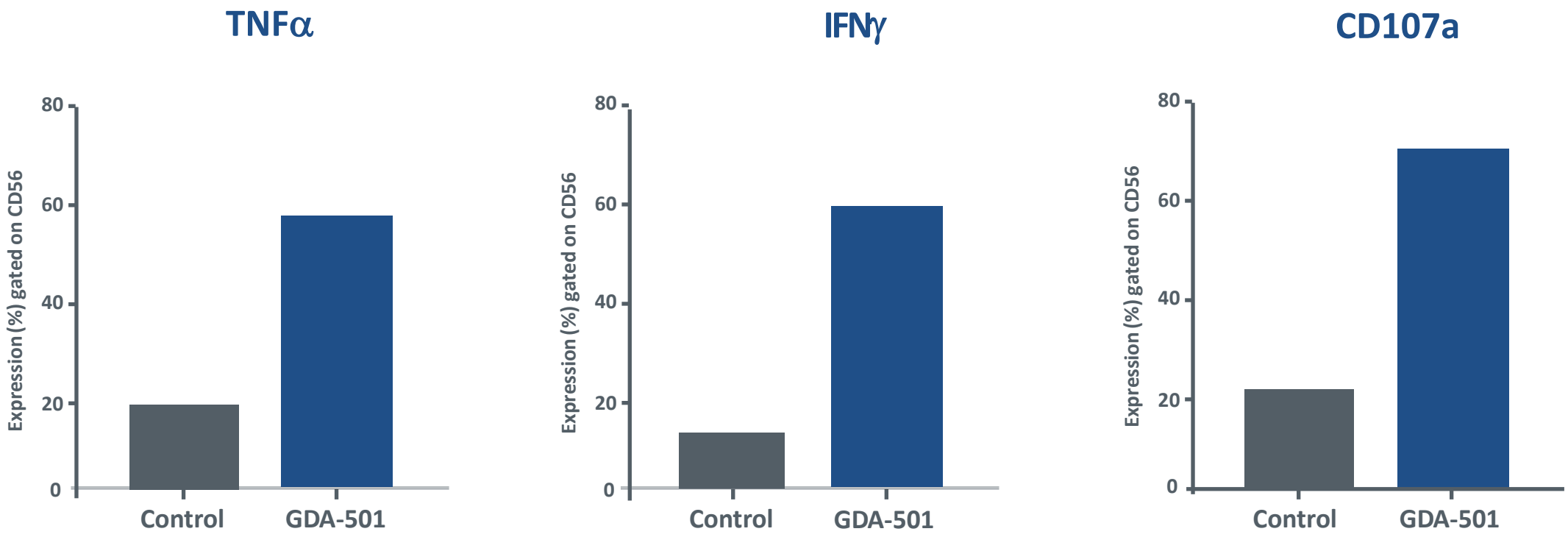


GDA-501 is investigational and safety and efficacy have not been established by any agency.

gamida cell

GDA-501: HER2 CAR NK cells enhance activity against HER2+ cell lines

When exposed to HER2+ cell lines, GDA-501 upregulates inflammatory cytokine production and degranulation marker (CD107a) associated with cytotoxicity

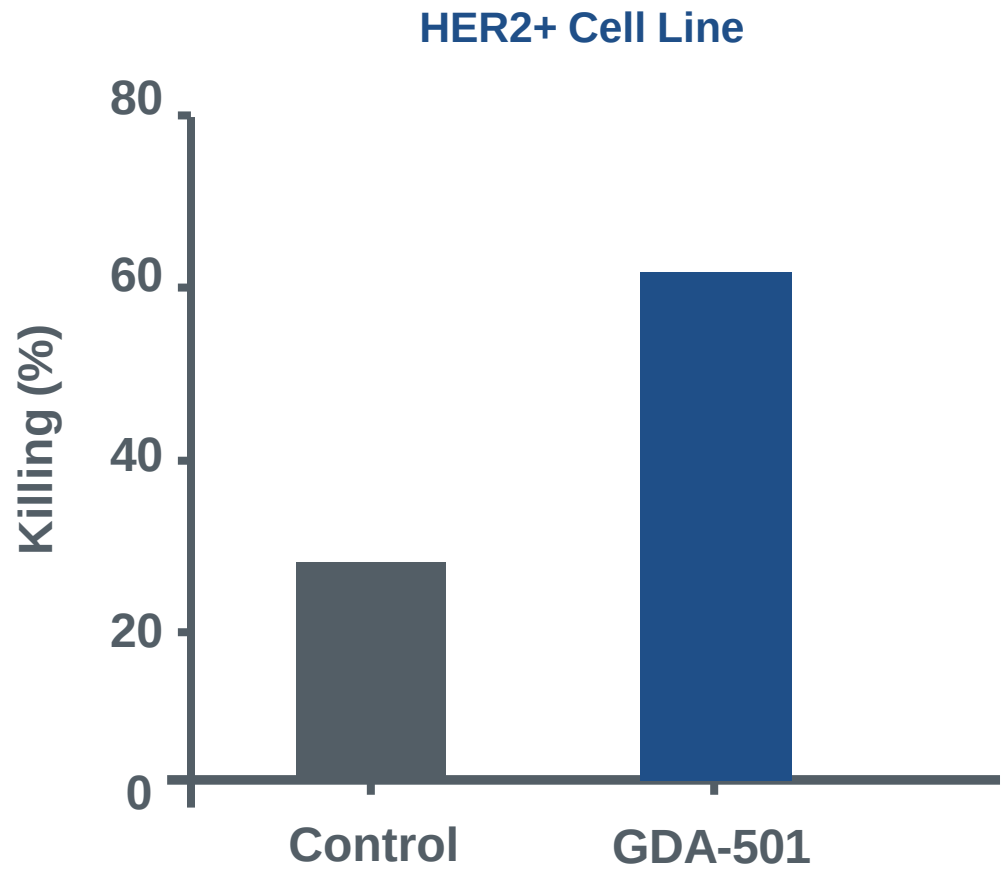


Potency analyses assay of 6 h co-cultured Her2-CAR NKs with corresponding target cells: Flow cytometric analysis of CD107a expression, intracellular TNFα and IFN-γ production in control NK cells, or electroporated NK cells with mRNA expressing HER2 CAR constructs.

GDA-501 is investigational and safety and efficacy have not been established by any agency.

gamida cell

GDA-501: Shows effective in vitro cytotoxicity against HER2+ cell line

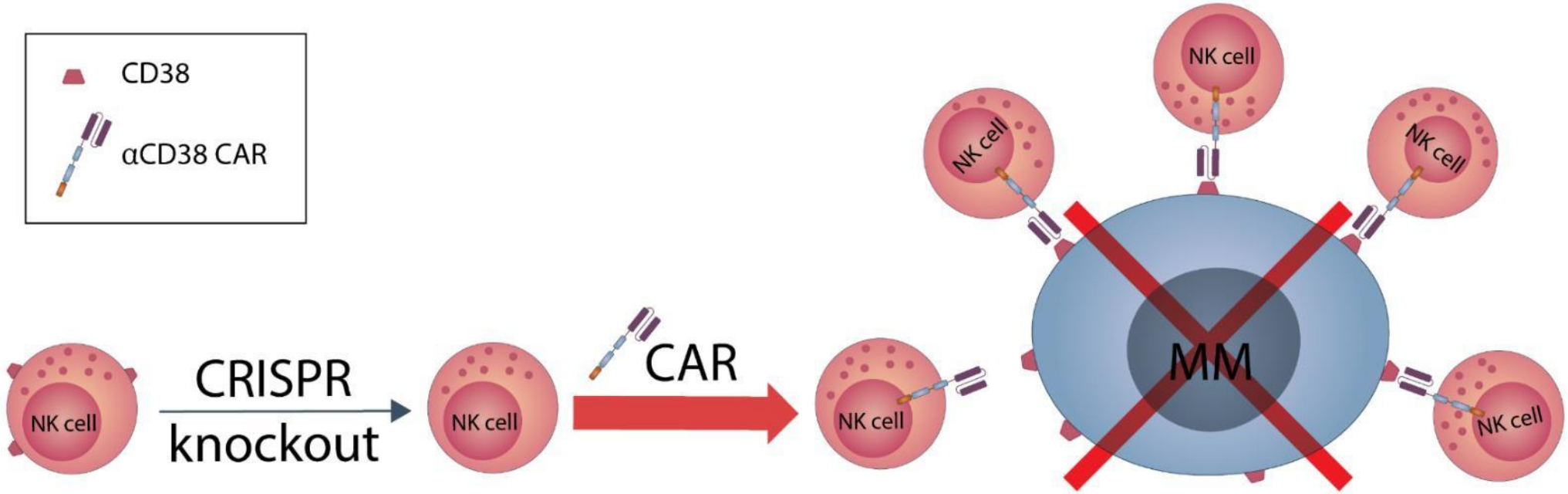


Killing activity of electroporated NK cells against target cells: Killing assay performed by flow cytometry analyses demonstrating calculated specific-lysis percentages following a co-culturing (in 5:1 ratio) for 6h with SKOV3 cell line 24h after electroporation

GDA-501 is investigational and safety and efficacy have not been established by any agency.

GDA-601: Leverages CRISPR/Cas9 technology to enhance cytotoxic effect against multiple myeloma cells

CD38 in NK cells was knocked out using CRISPR-Cas9 technology, and an enhanced chimeric antigen receptor (CAR) targeting CD38 was introduced using mRNA electroporation. This combined genetic approach allows improved cytotoxic activity directed against CD38-expressing MM cells without self-inflicted lysis by NK cells (fratricide).

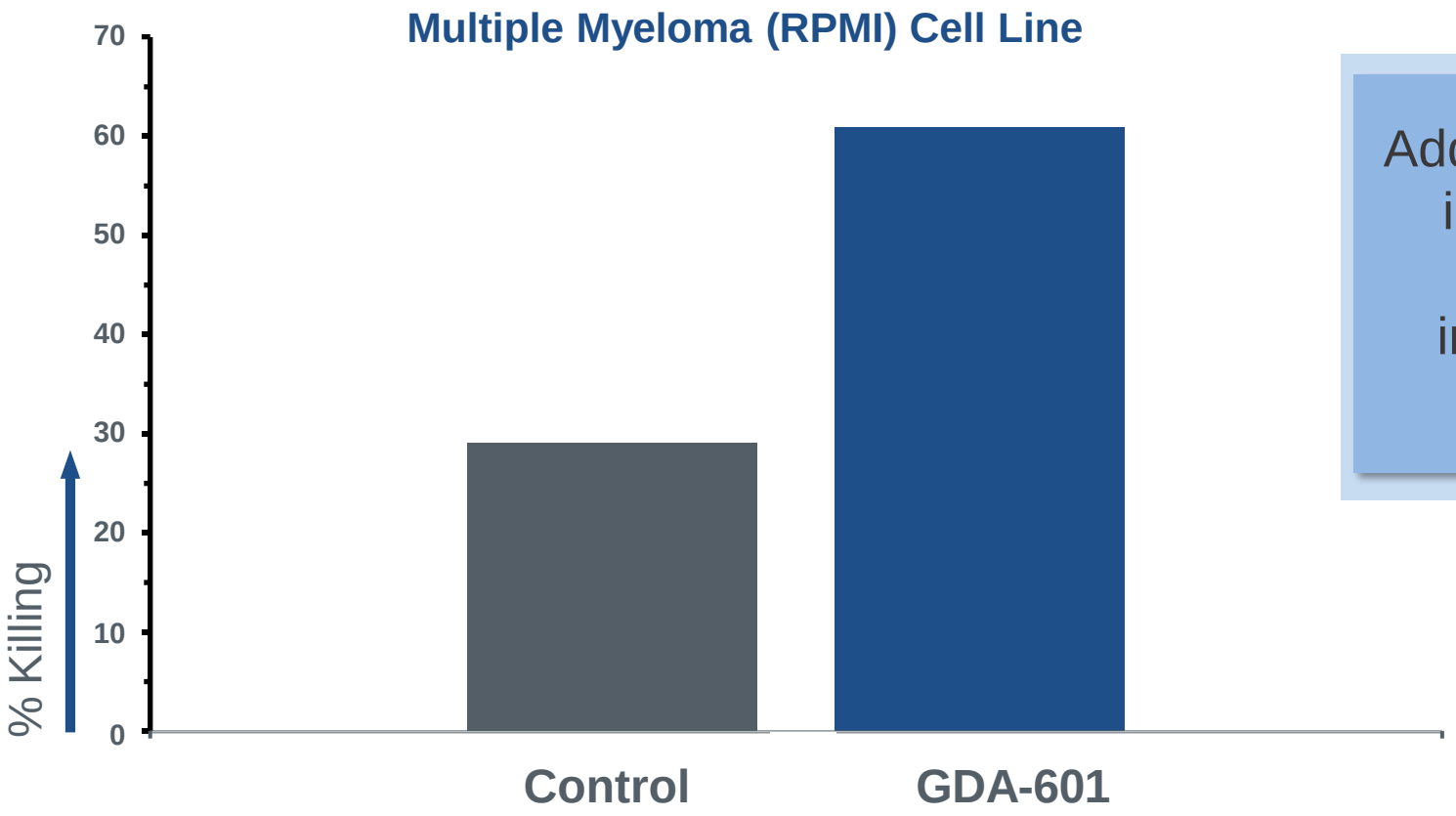


Killing activity of electroporated NK cells against target cells: Killing assay performed by flow cytometry analyses demonstrating calculated specific-lysis percentages following a co-culturing (in 5:1 ratio) for 6h with SKOV3 cell line 24h after electroporation

GDA-601 is investigational and safety and efficacy have not been established by any agency.

gamida cell

GDA-601: Increased cytotoxicity against multiple myeloma in vitro



Additional **research is ongoing** in collaboration with **Dana-Farber Cancer Institute,** investigating GDA-601 with **fresh patient samples**

Killing assay was performed following a 6 hour co-culture of GDA-601 with RPMI cell line at an Effector to Target ratio of 5:1

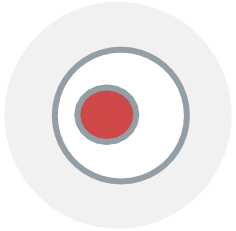
GDA-601 is investigational and safety and efficacy have not been established by any agency.

The pipeline of NAM-enabled cell therapy candidates position Gamida Cell for near and long-term success

Omidubicel

Nearing Potential Commercialization

- Potential to be first FDA-approved cell therapy for allogeneic hematopoietic stem cell transplant (allo-HSCT)
- Breakthrough Therapy and Orphan Drug status
- Rolling BLA submission completed in June 2022
- Potential launch in 1H2023



GDA-201

Leading NK cell innovation in lymphoma

- NK cell therapy candidate with positive Phase 1 data using fresh product; 78% ORR and 64% CR
- Received FDA clearance for an IND for a Phase 1/2 trial in NHL with an allogeneic readily available cryopreserved formulation
- Open for enrollment, announced June 2022

GDA-301/401/501/601

Opening frontiers in cancer immunotherapy

- Proof-of-concept for genetic engineering modifications, including CAR, membrane bound IL15, and knockouts using multiple approaches including CRISPR
- Evidence of increased cytotoxicity in preclinical studies
- Potential in hematology and solid tumors
- Selecting one candidate for IND enabling study by the end of 2022

Well positioned to execute goals | $70M Cash* | Cash runway into mid-2023 and through potential omidubicel approval

*As of March 31, 2022

GDA-201, GDA-301, GDA-401, GDA-501, GDA-601 are investigational and safety and efficacy have not been established by any agency.

Committed to Cures

Learn more at
gamida-cell.com

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