UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): November 05, 2024

Beam Therapeutics Inc.

(Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation) 001-39208 (Commission File Number) 81-5238376 (IRS Employer Identification No.)

238 Main Street Cambridge, Massachusetts (Address of Principal Executive Offices)

02142 (Zip Code)

Registrant's Telephone Number, Including Area Code: 857 327-8775

(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

D Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Trading					
Title of each class	Symbol(s)	Name of each exchange on which registered			
Common Stock, par value \$0.01 per share	BEAM	Nasdaq Global Select Market			

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

Emerging growth company \Box

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 7.01 Regulation FD Disclosure.

On November 5, 2024, Beam Therapeutics Inc. (the "Company") is holding a conference call and audio webcast at 8:30 a.m. Eastern Time (the "Investor Call"), during which it is discussing certain third quarter results of operations and financial information, as well as certain of the clinical and preclinical data contained in abstracts accepted for presentation at the American Society of Hematology Annual Meeting taking place in San Diego, CA from December 7-10, 2024. During the Investor Call, the Company is providing an investor presentation, dated November 5, 2024, a copy of which is attached as Exhibit 99.1 to this Current Report on Form 8-K and incorporated herein by reference.

The information under this Item 7.01, including Exhibit 99.1 hereto, is being furnished herewith and shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall such information be deemed incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

The following Exhibit 99.1 relates to Item 7.01 and shall be deemed to be furnished, and not filed:

Exhibit No.	Description	
99.1	Beam Therapeutics Inc., Investor Presentation, dated November 5, 2024.	
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).	

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

BEAM THERAPEUTICS INC.

Date: November 5, 2024

By: /s/ John Evans

John Evans, Chief Executive Officer



Q3 Financial Results & ASH Abstracts Investor Webcast

November 5, 2024

Beam conference call participants



TOPIC	PARTICIPANT	
Introduction	Holly Manning VP Investor Relations & External Communications	
Q3 Business Update	John Evans Chief Executive Officer	
Beam's Sickle Cell Disease Strategy	Mr. Evans	
ASH Abstracts: BEAM-101 Clinical Data	Amy Simon, M.D. Chief Medical Officer	
ASH Abstract: ESCAPE Preclinical Data	Giuseppe Ciaramella, Ph.D. President	
Closing Remarks	Mr. Evans	
Q&A	Mr. Evans, Dr. Simon, Dr. Ciaramella	

Cautionary note regarding forward-looking statements



This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Such forward-looking statements include statements regarding: the therapeutic applications and potential of our technology, including with respect to SCD, T-ALLT-LL, AATD, GSD 1a, and ESCAPE; our plans, and anticipated timing, to advance our programs; the clinical trial designs and expectations for BEAM-101, BEAM-201, BEAM-301, BEAM-302 and ESCAPE; our potential presentations at the ASH annual meeting; our current expectations and anticipated results of operations, including our expected use of capital; the sufficiency of our capital resources to fund operating expenses and capital expenditure requirements and the period in which such resources are expected to be available; and the therapeutic applications and potential of our technology, including our potential to develop life-long, curative, precision genetic medicines for patients through base editing, including potential safety advantages, all of which are subject to known and unknown important risks, uncertainties and other factors that may cause our actual results, performance or achievements, market trends, or industry results to differ materially from those expressed or implied by such forward-looking statements. Therefore, any statements contained herein that are not statements of historical fact may be forward-looking statements and should be evaluated as such. Without limiting the foregoing, the words "anticipate," "expect," "suggest," "plan," "vision," "believe," "intend," "project," "forecast," "estimates," "targets," "strategy," "possibilities," "promise," "projections," potential, "expect," "suggest," "plan," "vision," "believe," "intend," "may," "might," "will," and the negative thereof and similar words and expersions are intended to identify forward-looking statements.

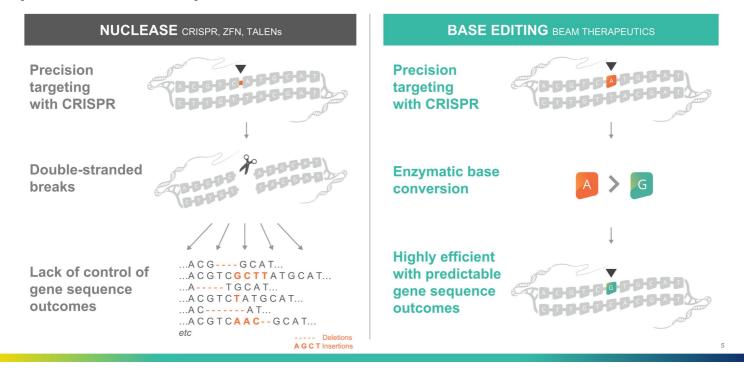
Expressions are intended to identify forward-looking statements. Each forward-looking statement is subject to important risks and uncertainties that could cause actual results to differ materially from those expressed or implied in such statement, including, without limitation, risks and uncertainties related to: our ability to develop, obtain regulatory approval for, and commercialize our product candidates, which may take longer or cost more than planned; our ability to raise additional funding, which may not be available; our ability to obtain, maintain and enforce patent and other intellectual property protection for our product candidates; the uncertainty that our product candidates will receive regulatory approval necessary to initiate human clinical trials; that preclinical testing of our product candidates and preliminary or interim data from preclinical studies and clinical trials may not be predictive of the results or success of ongoing or later clinical trials; that initiation and enrollment of our clinical trials may take longer than expected; that our product candidates or the delivery modalities we rely on to administer them may cause serious adverse events; that our product candidates may experience manufacturing or supply interruptions or failures; risks related to competitive products; and the other risks and uncertainties identified under the headings. "Risk Factors Summary" and "Risk Factors" and elsewhere in our annual report on Form 10-K for the year ended December 31, 2023, our quarterly reports on Form 10-Q, and in any subsequent filings with the Securities and texchange Commission (the "SEC") which are available on the SEC's website at www.sec.gov. Additional information will be made available by our annual and quarterly reports and other filings that we make from time to time with the SEC. These forward-looking statements speak only as of the date of this presentation. Factors or events that could cause our actual results to differ may emerge from time to time, and it is not possible f

OUR VISION IS TO PROVIDE LIFE-LONG CURES for patients suffering from serious diseases



The central hypothesis behind Beam: Base editing is more precise, efficient, predictable and versatile than nucleases





Two platforms with potential to create transformative therapies and significant value creation



Hematology

- Best-in-class potential for BEAM-101 for sickle cell disease (SCD)
- Increased probability of technical success for ex vivo gene editing and fetal hemoglobin (HbF) upregulation
- Validated FDA regulatory pathway
- ESCAPE has potential to eliminate chemotherapy from transplant, expanding reach of base editing to more patients
- Platform for future hematology pipeline

Initial data today

Liver Genetic Diseases

- Best-in-class potential for BEAM-302 for alpha-1 antitrypsin deficiency (AATD)
- Increased probability of technical success for in vivo lipid-nanoparticle (LNP) gene editing in liver
- Potential for rapid clinical proof of concept
- Clinical-stage AATD program with potential to be a one-time treatment that benefits both lung and liver disease
- Platform for future liver-targeted pipeline

Data expected in 2025

Significant execution momentum in Q3 across our priority hematology and liver genetic disease programs

\$



Hematology	Liver Genetic Diseases	
35 patients enrolled and 8 patients dosed in BEACON Phase 1/2 trial of BEAM-101 in SCD	First cohort dosing completed in the Phase 1/2 trial of BEAM-302 in AATD	
 Development candidate nominated for ESCAPE technology in SCD: BEAM-103 (anti-CD117 mAb) BEAM-104 (CD34 cells with a CD117 edit and HBG1/2 edit) 	IND approved by FDA and site activation activities underway for BEAM-301 Phase 1/2 study in glycogen storage disease 1a (GSD1a)	
\$925.8M in cash with exp	pected operating runway into 2027	

(excluding commercialization expenses for BEAM-101)

Four Beam abstracts accepted for presentation at the 66th American Society of Hematology (ASH) Annual Meeting



DRAL

Initial Results from the BEACON Clinical Study of BEAM-101 in Sickle Cell Disease

Sunday, Dec. 8, 10 a.m. PT Abstract #513

<u>POSTER</u>

Impact of BEAM-101 Treatment on Red Blood Cell Hemoglobin Expression, Rheology and Sickling Properties

Monday, Dec. 9, 6-8 p.m. PT Abstract #4957

ORAL Preclinical Data for ESCAPE in a Rhesus Autologous Transplantation Model

Sunday, Dec. 8, 10:45 a.m. PT Abstract #516

POSTER

Initial Data from the Phase 1/2 Study of BEAM-201, Multiplex Base-Edited Allogeneic Anti CD7 CAR-T-Cells

Monday, Dec. 9, 6-8 p.m. PT Abstract #4838

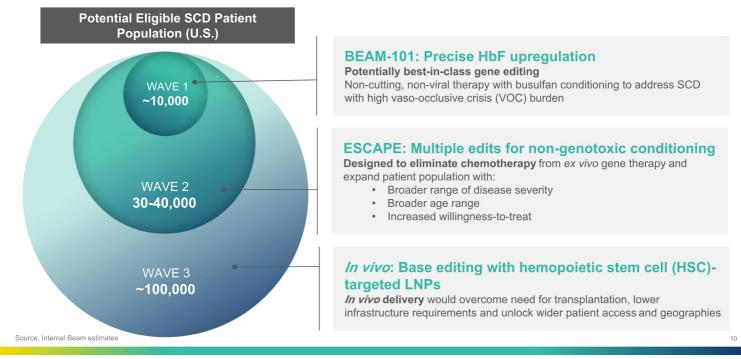
Beam to host investor event on Sunday, December 8, 2024, at 8 p.m. PT

What if we could develop better one-time therapies for people living with SCD?

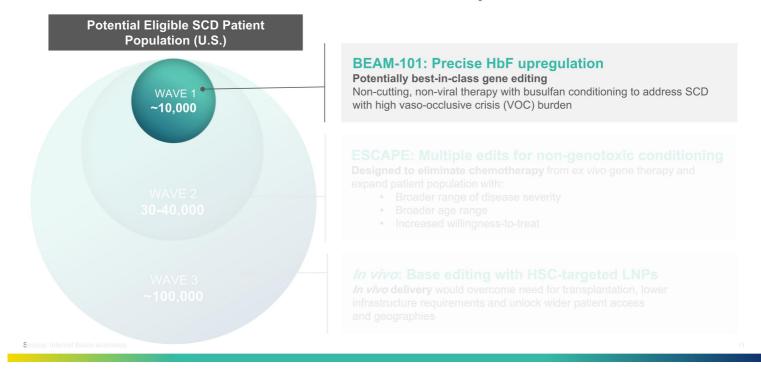
SICKLE CELL DISEASE



Beam's multi-wave strategy is focused on developing safer, more Beam effective and more accessible treatments for patients with SCD

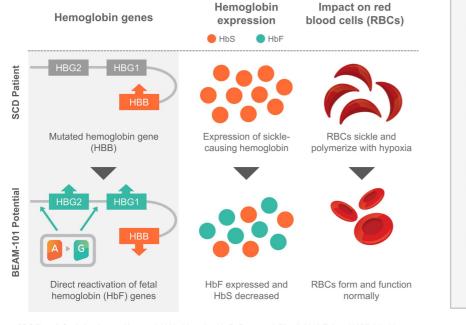


Beam's multi-wave strategy is focused on developing safer, more effective and more accessible treatments for patients with SCD



BEAM-101: Designed to be best-in-class genetic medicine for sickle cell disease





CDC Data & Statistics; Lancet Haematol 2023; 10: e585–99; DeBaun et al. Blood. 2019 Feb 7; 133(6):615-617

SCD Unmet Need

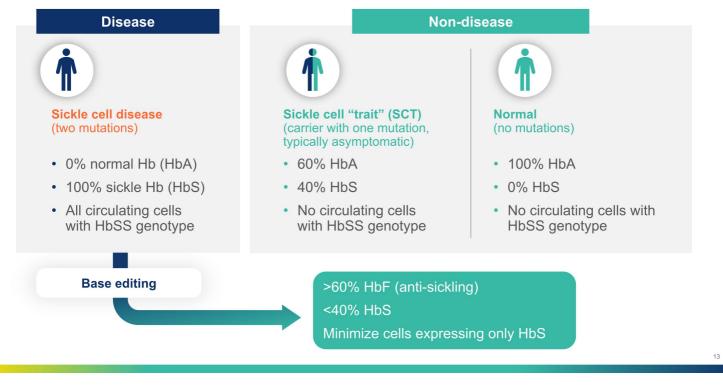
- Sickle hemoglobin (HbS) polymerization is root cause of sickle cell pathophysiology
- Affects millions of people worldwide and ~100K in U.S.
- Median survival in the U.S. is ≥20 years shorter

Current Available Treatments

- Disease-modifying therapies do not prevent organ dysfunction and require ongoing treatment
- Recently approved gene therapies reduce VOCs but residual HbS >50% suggests room for improvement

What would an ideal outcome for BEAM-101 look like?

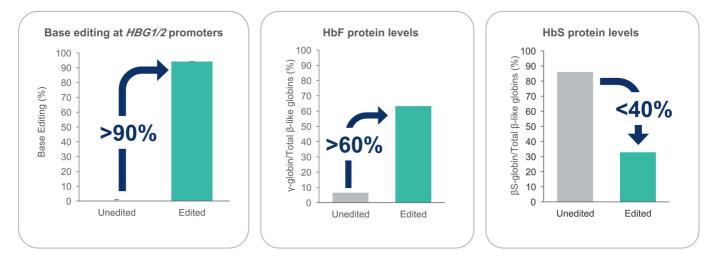




Preclinical data suggest BEAM-101 has potential for highest HbF induction and lowest residual HbS levels vs. other approaches



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Preclinical data presented at ASGCT 2020

Precise, single-base editing without need for double-stranded breaks or viral insertion results in highest editing efficiency in preclinical models

BEAM-101 Phase 1 Clinical Data

AMY SIMON, M.D., CHIEF MEDICAL OFFICER



BEACON Phase 1/2 study: Evaluating safety and efficacy of **BEAM-101** in patients with SCD and severe vaso-occlusive crises



Sentinel Cohort (N = 3)

- ✓ Enrollment complete
- ✓ Dosing complete



Expansion Cohort (N = 42)

✓ 35 patients cleared screening and enrolled
 ✓ 8 patients dosed, with the remaining in process



Key Eligibility Criteria

- 18-35 years age
- SCD (β^S/β^S; β^S/β⁰; β^S/β⁺ genotypes) with ≥4 severe vaso-occlusive crises (sVOCs) in 24 mos prescreening
- No available matched sibling donor
- No history of overt stroke

Select Safety Endpoints

- Proportion of patients with successful neutrophil engraftment
- Time to neutrophil
 engraftment
- Time to platelet
 engraftment

Select Efficacy Endpoints

- Proportion of patients sVOC-free for 12 consecutive months
- Total Hb levels
- HbF and HbS levels
- Hemolysis parameters
- Patient-reported outcomes
- RBC function and organ damage



ASH ABSTRACT: safety n=6 efficacy n=4

ASH PRESENTATION: safety n=7 efficacy n=7

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Patient demographics and treatment characteristics



PATIENT DEMOGRAPHICS (N=6)				
Genotype, n	β ^s / β ^s	5		
	β ^s / β ⁰	1		
Gender, n	Male	3		
	Female	3		
Age in years	Range	19-27		
Race	African American	6		

TREATMENT CHARACTERISTICS (N=6)		
Mobilization cycles	1 cycle	3 Mean:
	2 cycles	3 1.5 cycles
BEAM-101 dose, viable CD34+ cells x 10 ⁶ /kg	Mean (range)	11.9 × 10 ⁶ (5.2–23.4) viable CD34+ cells/kg

Data cut as of July 2, 2024 17

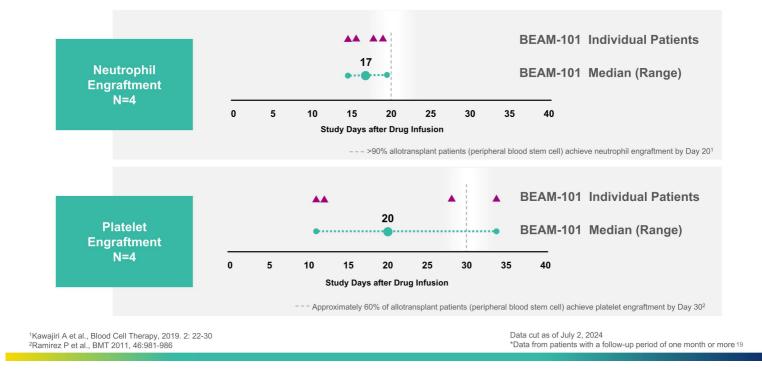
Preliminary safety data (N=6)



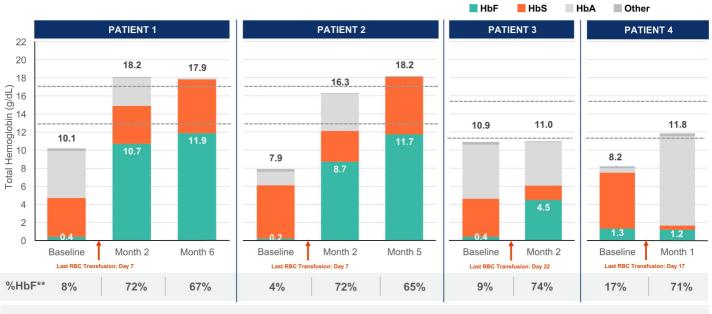
- Initial safety profile consistent with myeloablative conditioning with busulfan and autologous hematopoietic stem cell transplant (HSCT)
- One patient died due to respiratory failure likely related to busulfan conditioning 4 months after BEAM-101 infusion
 - Unrelated to BEAM-101 as determined by investigator
 - Case reviewed by Data Safety Monitoring Committee and FDA
- In all patients dosed, there were no ≥ Grade 3 adverse events (AEs) or serious AEs related to BEAM-101

Data cut as of July 2, 2024, with updated details regarding fatal event $$_{\rm 18}$$





Preliminary efficacy data (N=4*)



Potent induction of HbF and reduction of HbS, consistent with preclinical results

**%HbF / (F + S) ---- Normal range of total hemoglobin for males (13-17 g/dL) and females (11.5-15.5 g/dL), per the central laboratory Data cut as of July 2, 2024 *Data from patients with a follow-up period of one month or more 20



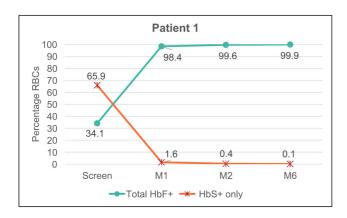
Preliminary efficacy data (N=4*)

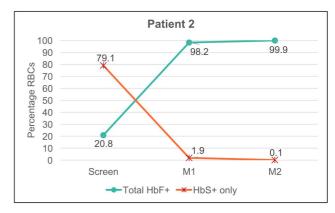


- All patients achieved >60% HbF and <40% HbS of non-transfused hemoglobin at Month 1, sustained through all time points
- Markers of hemolysis (lactate dehydrogenase, indirect bilirubin, haptoglobin and reticulocyte counts) normalized or improved for all patients
- No VOCs were reported by investigators following BEAM-101 treatment

Data cut as of July 2, 2024 *Data from patients with a follow-up period of one month or more 21

Exploratory red blood cell (RBC) function assays





After BEAM-101 treatment:

- Nearly all RBCs were expressing HbF by Month 1
- Nearly all RBCs expressing solely HbS were eliminated by Month 2

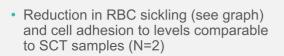
Duplex flow cytometry performed on untransfused RBCs

Data cut as of July 2, 2024

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Exploratory red blood cell (RBC) function assays



- Other RBC function improvements include increased deformability and decreased density (N=1 at Month 6)
- Resolution of abnormal cell morphology and sickle cells by Month 6 and 4 in patients 1 and 2, respectively



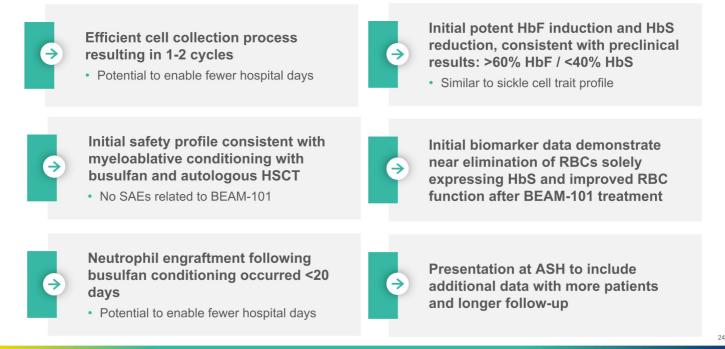
 * Median of maximum sickling observed from a 'n' of 10 sickle trait samples tested in a reference range study

Data cut as of July 2, 2024

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Summary: Emerging BEACON data show potential for significant Beam differentiation of base editing and BEAM-101 for SCD

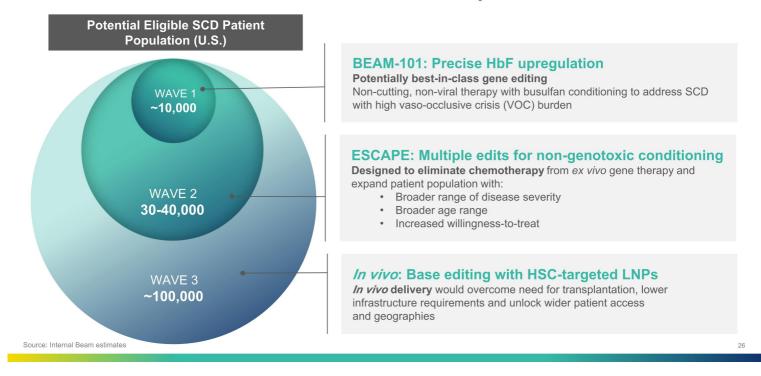


ESCAPE Program Non-human Primate Data

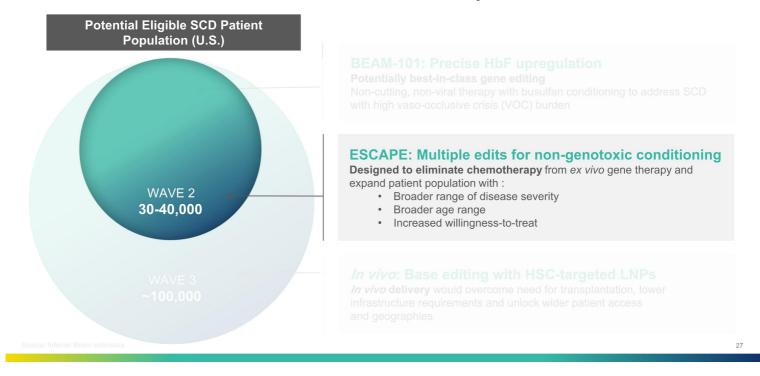
GIUSEPPE CIARAMELLA, PH.D., PRESIDENT

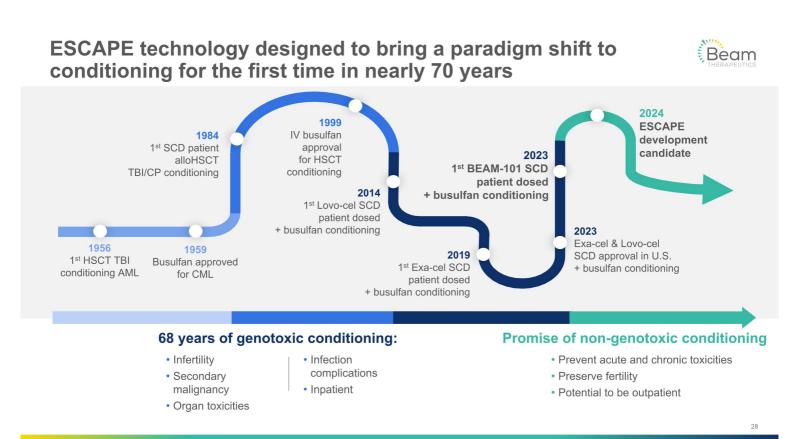


Beam's multi-wave strategy is focused on developing safer, more Beam effective and more accessible treatments for patients with SCD



Beam's multi-wave strategy is focused on developing safer, more Beam effective and more accessible treatments for patients with SCD





ESCAPE technology designed for selective depletion of diseased cells to enable non-genotoxic conditioning

ESCAPE technology for hemoglobinopathies is comprised of two components:

BEAM-103

Anti-CD117 conditioning monoclonal antibody (mAb), which binds to the specific epitope edited by ESCAPE



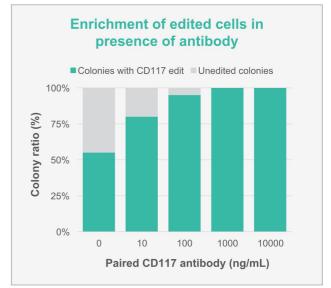
Old diseased cells are suppressed and eliminated by BEAM-103, creating space for the graft

BEAM-104

Engineered CD34 cell product with a therapeutic edit (the same as in BEAM-101) plus an edit to CD117, which prevents binding of BEAM-103



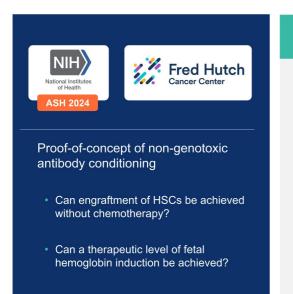
New edited cells "escape" binding by BEAM-103 and expand, leading to engraftment

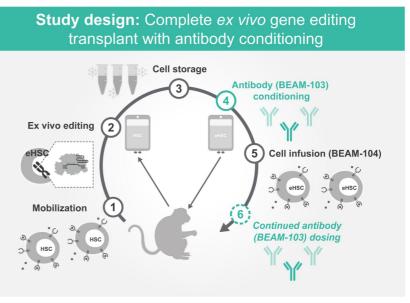


Data presented at FASEB 2022

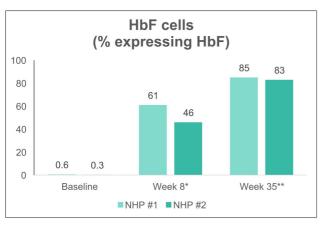
Assessing ESCAPE in a rigorous non-human primate (NHP) model of autologous transplant

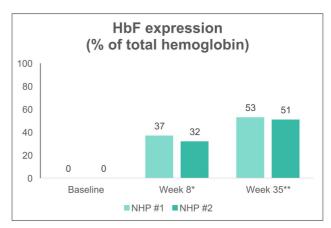






Long-term engraftment of base edited CD34 cells after antibody conditioning in NHPs led to high % F cells and HbF %





Antibody dosed prior to infusion and monthly through week 35

- Proof of concept of long-term engraftment after antibody conditioning, without chemotherapy, in NHPs
- % F-cells and HbF % at therapeutic thresholds comparable to gene therapy after 3-6 months
- mAb well tolerated no myeloablation, no supportive care necessary

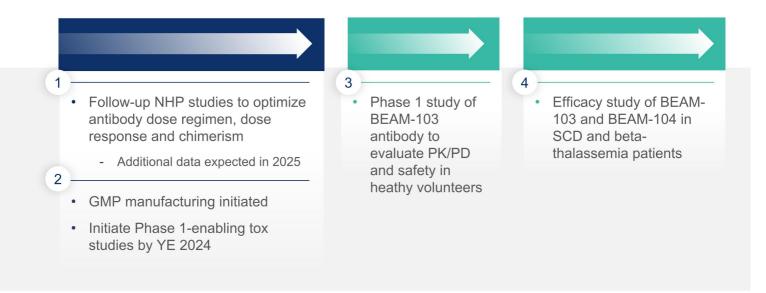
*9 weeks for NHP #2 **34 weeks for NHP #2

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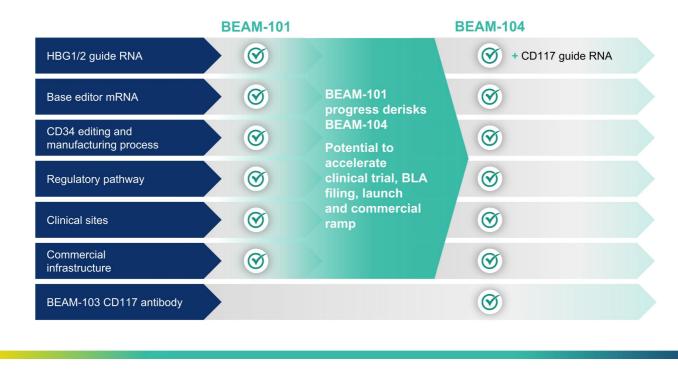
Beam

Anticipated next steps for ESCAPE





Synergy between BEAM-101 and ESCAPE technology (BEAM-104 Beam and BEAM-103) support efficient development in SCD



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Significant step forward for Beam's hematology vision and base editing platform



BEAM-101 in SCD

Potentially differentiated clinical profile, comparable to sickle cell trait

ESCAPE NHP data

Potential to eliminate chemotherapy from transplant and expand the SCD market

Base editing

Technology validated, with strong translation from preclinical to clinical

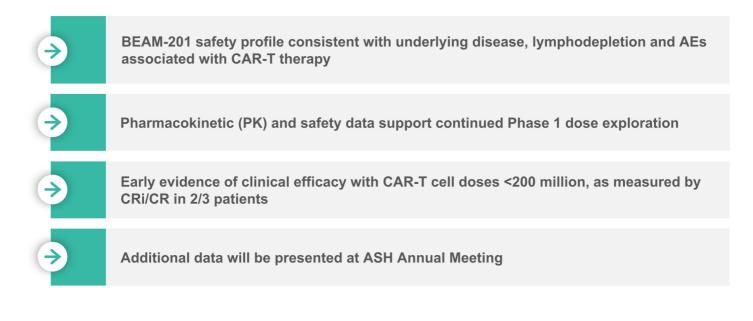
BEAM-201 Phase 1 Clinical Data

MULTIPLEX BASE EDITING FOR CELL THERAPY



BEAM-201 abstract highlights: Data demonstrate proof of concept of 1st quad-edited, allogeneic CAR-T cell therapy





Significant catalysts on the horizon for Beam

Recent and Anticipated Catalysts

BEAM-101

Completed Sentinel dosing and initiated expansion

Present initial clinical data at ASH

ESCAPE SCD & BETA-THALASSEMIA

Initiate Phase 1enabling preclinical studies in 2024

Present NHP preclinical data at ASH

BEAM-302

CTA cleared in the UK

Initiate Phase 1/2 clinical trial

 (\checkmark)

Present initial data in 2025

BEAM-301 GSD1a

Obtained U.S. IND clearance

Dose first patient in Phase 1/2 study in early 2025

BEAM-201 T-ALL / T-LL

Present initial clinical data at ASH

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Beam



