

## BILLING & CODING GUIDE

A Resource for Coding, Billing, and Reimbursement Information



#### INDICATION

ZYNTEGLO is indicated for the treatment of adult and pediatric patients with β-thalassemia who require regular red blood cell (RBC) transfusions.

#### **IMPORTANT SAFETY INFORMATION**

#### **Delayed Platelet Engraftment**

Delayed platelet engraftment has been observed with ZYNTEGLO treatment. Bleeding risk is increased prior to platelet engraftment and may continue after engraftment in patients with prolonged thrombocytopenia; 15% of patients had  $\geq$  Grade 3 decreased platelets on or after Day 100.

Patients should be made aware of the risk of bleeding until platelet recovery has been achieved. Monitor patients for thrombocytopenia and bleeding according to standard guidelines. Conduct frequent platelet counts until platelet engraftment and platelet recovery are achieved. Perform blood cell count determination and other appropriate testing whenever clinical symptoms suggestive of bleeding arise.

#### **PLEASE NOTE:**

This Billing & Coding Guide is intended to help healthcare professionals understand key billing and coding considerations for ZYNTEGLO and its related services when using ZYNTEGLO for its FDA-approved use during a hospital admission.

The information provided in this guide is for informational and reference purposes only. The information provided in this guide should not be construed as medical or legal advice. All medical decisions should be made at the discretion of the provider. Healthcare professionals should exercise independent clinical judgment when selecting codes and submitting claims to accurately reflect the services rendered to individual patients. Coding and coverage policies can change, often without warning. It is the responsibility of the provider to determine coverage, reimbursement, appropriate coding for a particular patient and/or procedure, and to submit accurate claims. The information in this guide is not a guarantee of coverage or reimbursement for any product or service. Please contact your patient's health plan or work with my bluebird support for additional resources



 Zynteglo

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For reimbursement questions or appeals support, talk with a Patient Navigator at my bluebird support by calling 1-833-888-6378, emailing mybluebirdsupport@bluebirdbio.com, or visiting mybluebirdsupport.com.



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my bluebird support

Treatment Journey

<u>Access &</u> <u>Reimbursement</u> <u>Considerations</u>

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# We're committed to supporting your patients

my bluebird support<sup>m</sup>

my bluebird support is here to help your patients and their caregivers navigate access to bluebird bio gene therapies with resources designed to support their unique treatment paths.

Examples of support range from helping to identify Qualified Treatment Center options for consultation to understanding their insurance benefits and the process for prior authorization.

<u>Cell Collection</u> <u>Coding</u>

<u>Conditioning</u> <u>Regimen Coding</u>

<u>Administration</u> <u>Coding</u>

Coding Summary





With **my bluebird support**, your patient or their loved ones have a dedicated copilot to help at any point in the treatment journey. Their Patient Navigator will be available to help navigate, educate, and elevate their experience.

#### Navigate

Guiding your patient and their loved ones through the treatment journey while connecting them with helpful people and organizations



Educate

Sharing important resources about gene therapy and the benefits information your patient needs to access treatment with insurance



<u>Indication and</u> <u>Important Safety</u> <u>Information</u>

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#### **Elevate**

Collaborating with your patient to help reach personal health goals

 Zynteglo

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 (betibeglogene autotemcel)

 Suspension for IV infusion

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Treatment Journey

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<u>Sample Letter of</u> <u>Medical Necessity</u>

## 6 Important Steps to Treatment

#### **STEP 1: Pre-Treatment**

Before mobilization, apheresis, and myeloablative conditioning are initiated, confirm that hematopoietic stem cell (HSC) transplantation is appropriate for the patient.

It is recommended that patients be maintained at a hemoglobin (Hb)  $\geq$ 11 g/dL for at least 30 days prior to mobilization and 30 days prior to myeloablative conditioning.

#### **STEP 2: Stem Cell Collection**



Patients are required to undergo hematopoietic stem cell mobilization (5–6 days) followed by apheresis (apheresis generally occurred on day 5 and 6 of mobilization) to obtain CD34+ cells for ZYNTEGLO manufacturing. If the minimum number of CD34+ cells to manufacture ZYNTEGLO is not met, additional cycles of mobilization and apheresis, separated by at least 14 days, may be required.

<u>Cell Collection</u> <u>Coding</u>

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<u>Coding Summary</u>



Sample Claims

#### **STEP 3: Production**

~70-90 days<sup>1</sup>

The patient's cells are sent to a manufacturing site to produce ZYNTEGLO. ZYNTEGLO is then supplied in one or more infusion bags.

**STEP 4: Conditioning and Washout** 

4 days + at least 48 hours washout<sup>1</sup>

Full myeloablative conditioning (4 days) is followed by a washout period of at least 48 hours prior to infusion of ZYNTEGLO.

**STEP 5: Infusion** 

~30 minutes per bag<sup>1</sup>

 $\sim$  3-6 weeks<sup>1</sup>

Each infusion bag of ZYNTEGLO is administered via intravenous infusion over a period of less than 30 minutes per bag. ZYNTEGLO is supplied in up to four infusion bags containing a frozen suspension of genetically modified autologous cells, enriched for CD34+ cells.



Indication and Important Safety Information

<u>References</u>

#### **STEP 6: Post-Infusion Monitoring**

Patients should be prepared to remain hospitalized and monitored for an additional 3–6 weeks after infusion. Times may vary by patient.

## After treatment with ZYNTEGLO, patients require long-term monitoring<sup>1</sup>

#### Post-infusion monitoring/Long-term follow-up

Patients treated with ZYNTEGLO may develop hematologic malignancies and should be monitored lifelong. Monitor for hematologic malignancies with a complete blood count (with differential) at Month 6 and Month 12 and then at least annually for at least 15 years after treatment with ZYNTEGLO, and integration site analysis at Months 6, 12, and as warranted If a hematologic malignancy is detected, contact bluebird bio at 1-833-999-NEST (6378) for reporting and to obtain instructions on collection of samples for testing.

Time frames are approximate and may vary per patient.

 Zynteglo

 betibeglogene autotemcel

 suspension for IV infusion

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Treatment Journey

Access & Reimbursement Considerations

<u>Sample Letter of</u> <u>Medical Necessity</u>

### **Access & Reimbursement Considerations**

#### PLANNED READMISSION

If the initial cell collection is conducted during an inpatient hospital admission and patient is discharged prior to subsequent admission for administration of ZYNTEGLO, it may be necessary to confirm with each payer that the subsequent admission is a planned admission for gene therapy administration.

#### ZYNTEGLO

Payers may establish prior authorizations based on clinical trial inclusion and exclusion criteria, which may require documentation or physician attestation for specific diagnostic testing and clinical history.



<u>Conditioning</u> <u>Regimen Coding</u>

Administration Coding

Coding Summary





#### **PRIOR AUTHORIZATION CONSIDERATIONS<sup>1</sup>**

Testing results will be required as part of the prior authorization request. Payers may require the following tests, eg, HIV-1/2, hepatitis B core antibody, hepatitis B surface antigen, hepatitis C virus antibody, HTLV-1/2.

In addition, before collection of cells for manufacturing, screening for infectious diseases, specifically HIV-1/2 in accordance with clinical guidelines will be required. Payers may vary on the required testing, imaging, and biopsies for authorization; healthcare professionals should confirm with each payer prior to submission.

The target number of CD34+ cells to be collected is  $\geq 12 \times 10^6$  CD34+ cells/kg. If the minimum dose of  $5.0 \times 10^6$  CD34+ cells/kg is not met, the patient may undergo additional cycles of mobilization and apheresis, separated by at least 14 days, in order to obtain more cells for additional manufacture. Up to two drug product lots may be administered to meet the target dose.



Indication and Important Safety Information

<u>References</u>

A back-up collection of CD34+ cells of  $\geq 1.5 \times 10^6$  CD34+ cells/kg (if collected by apheresis) or  $>1.0 \times 10^8$  TNC/kg (Total Nucleated Cells, if collected by bone marrow harvest) is required. These cells must be collected from the patient and be cryopreserved prior to myeloablative conditioning. The back-up collection may be needed for rescue treatment if there is: 1) compromise of hematopoietic stem cells or ZYNTEGLO before infusion, 2) primary engraftment failure, or 3) loss of engraftment after infusion with ZYNTEGLO.

Additional apheresis cycles may be necessary to meet the drug product dose, and these additional cycles would require additional prior authorization and approval.

Payers may require multiple prior authorizations for coverage of both ZYNTEGLO and all other ancillary services to be provided for treatment

#### **POST TESTING<sup>1</sup>**

Patients treated with ZYNTEGLO may develop hematologic malignancies and should have lifelong monitoring. Monitor for hematologic malignancies with a complete blood count (with differential) at least every 6 months for at least 15 years after treatment with ZYNTEGLO, and integration site analysis at Months 6, 12, and as warranted.





Treatment Journey

<u>Access &</u> <u>Reimbursement</u> <u>Considerations</u>

Sample Letter of Medical Necessity

# Sample Letter of Medical Necessity ZYNTEGLO

Clicking on the image below will open the Sample Letter of Medical Necessity in a new window.

#### ZYNTEGLO<sup>™</sup> (betibeglogene autotemcel) Sample Letter of Medical Necessity

To the Treating Physician:



<u>Conditioning</u> <u>Regimen Coding</u>

Administration Coding

Coding Summary





This sample letter, provided by bluebird bio, Inc. is for informational purposes only, providing an example of language that may be required or helpful when responding to a request from a patient's health plan. Use of this information does not constitute medical or legal advice and does not guarantee reimbursement for coverage. It is not intended to be a substitute for, or an influence on, the independent clinical decision of the prescribing healthcare professional. Please note that some payers may have specific forms that must be completed in order to request prior authorization or to document medical necessity. When sending this information to a third-party payer for review, ensure that you submit under your practice/individual physician letterhead.

The following pages are a sample that may be customized to use as a statement of medical necessity/appeal for your patients. Use of this sample letter is not required.

#### Indication

ZYNTEGLO is indicated for the treatment of adult and pediatric patients with  $\beta$ -thalassemia who require regular red blood cell (RBC) transfusions.

#### **Important Safety Information**

#### Delayed Platelet Engraftment

Delayed platelet engraftment has been observed with ZYNTEGLO treatment. Bleeding risk is increased prior to platelet engraftment and may continue after engraftment in patients with prolonged thrombocytopenia; 15% of patients had  $\geq$  Grade 3 decreased platelets on or after Day 100.

Patients should be made aware of the risk of bleeding until platelet recovery has been achieved. Monitor patients for thrombocytopenia and bleeding according to standard guidelines. Conduct frequent platelet counts until platelet engraftment and platelet recovery are achieved. Perform blood cell count determination and other appropriate testing whenever clinical symptoms suggestive of bleeding arise. Risk of Neutrophil Engraftment Failure



#### <u>Indication and</u> <u>Important Safety</u> <u>Information</u>



There is a potential risk of neutrophil engraftment failure after treatment with ZYNTEGLO. Neutrophil engraftment failure is defined as failure to achieve three consecutive absolute neutrophil counts (ANC) ≥ 500 cells/microliter obtained on different days by Day 43 after infusion of ZYNTEGLO. Monitor neutrophil counts until engraftment has been achieved. If neutrophil engraftment failure occurs in a patient treated with ZYNTEGLO, provide rescue treatment with the back-up collection of CD34+ cells.

#### Risk of Insertional Oncogenesis

There is a potential risk of lentiviral vector (LVV)-mediated insertional oncogenesis after treatment with ZYNTEGLO.

Please see Important Safety Information on pages 1-3 and full <u>Prescribing Information</u> for ZYNTEGLO.

Additional support for medical necessity may be required for new patients. Resources available through **my bluebird support** include the above Letter of Medical Necessity sample, which can be downloaded and adapted to reflect your patient's prior treatment journey and clinical rationale for treatment with ZYNTEGLO

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Treatment Journey

Access & <u>Reimbursement</u> Considerations

Sample Letter of <u>Medical Necessity</u>



6A551ZV

## Cell Collection Coding

**MOBILIZATION AND APHERESIS** 

ICD-10-CM CODE <sup>2</sup>	DESCRIPTION	
D56.1	Beta-thalassemia	

When apheresis is conducted during a hospital inpatient admission, the following ICD-10-PCS codes may apply:

ICD-10-PCS CODE<sup>3</sup> DESCRIPTION 6A550ZV

Cel	l Col	lection
Coc	ding	

<u>Conditioning</u> <u>Regimen Coding</u>

Administration Coding

<u>Coding Summary</u>





Pheresis of Hematopoietic Stem Cells, Single

#### Pheresis of Hematopoietic Stem Cells, Multiple

Fee schedules, relative value units, conversion factors and/or related components are not assigned by the AMA, are not part of CPT, and the AMA is not recommending their use. The AMA does not directly or indirectly practice medicine or dispense medical services. The AMA assumes no liability for data contained or not contained herein.

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**U.S. Government End Users.** CPT is commercial technical data, which was developed exclusively at private expense by the American Medical Association (AMA), 330 North Wabash Avenue, Chicago, Illinois 60611. Use of CPT in connection with this product shall not be construed to grant the Federal Government a direct license to use CPT based on FAR 52.227-14 (Data Rights - General) and DFARS 252.227-7015 (Technical Data -Commercial Items).

Although commonly applied for hospital outpatient mobilization and apheresis, the following CPT procedure codes may also be applicable for inpatient processes as well, based on payer-specific requirements:

CPT <sup>®</sup> CODE <sup>4</sup>	DESCRIPTION
96372	Therapeutic, prophylactic, or diagnostic injection (specify substance or drug); subcutaneous or intramuscular
38206*	Blood-derived hematopoietic progenitor cell harvesting for transplantation, per collection; autologous



#### Indication and Important Safety Information

<u>References</u>

*Report the	e code foi	r each col	llection e	encounter.
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HCPCS CODE <sup>5</sup>	DESCRIPTION
J2562	Injection, plerixafor, 1 mg
J1442	Injection, filgrastim (G-CSF), excludes biosimilar, 1 mcg
J1447	Injection, tbo-filgrastim, 1 mcg
Q5101	Injection, filgrastim-sndz, biosimilar, (Zarxio), 1 mcg
Q5110	Injection, filgrastim-aafi, biosimilar, (Nivestym), 1 mcg
Q5125	Injection, filgrastim-ayow, biosimilar, (Releuko), 1 mcg
	$\cdot$

Revenue codes are provided for informational purposes only and may vary by hospital:

DESCRIPTION

**REVENUE CODE<sup>6</sup>** 

0250	Pharmacy
0636	Drugs requiring detailed coding
0871	Cell/Gene Therapy Cell Collection

(betibeglogene autotemcel) suspension for IV infusion

Payers may vary on the required coding to appropriately reflect mobilization and apheresis for the collection of cells. Providers should confirm with each payer prior to submitting claims.

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Treatment Journey

<u>Access &</u> <u>Reimbursement</u> <u>Considerations</u>

Sample Letter of Medical Necessity



ICD-10-CM CODE<sup>2</sup>

## Conditioning Regimen Coding

All patients received full myeloablative conditioning with busulfan prior to administration of ZYNTEGLO.<sup>1</sup> There are risks associated with myeloablative conditioning agents on pregnancy and fertility. Refer to the <u>Fertility Preservation</u> section of this guide.

DESCRIPTION



#### Conditioning Regimen Coding

Administration Coding

Coding Summary





D56.1	Beta-thalassemia
ICD-10-PCS CODE <sup>3</sup>	DESCRIPTION
3E03305	Introduction of Other Antineoplastic into Peripheral Vein, Percutaneous Approach

CPT CODE <sup>4</sup>	DESCRIPTION
96413	Chemotherapy administration, intravenous infusion technique; up to 1 hour, single or initial substance/drug
96415	Chemotherapy administration, intravenous infusion technique; each additional hour

HCPCS CODE <sup>5</sup>	DESCRIPTION
J0594	Injection, busulfan, 1 mg



Indication and Important Safety Information

<u>References</u>

<b>REVENUE CODE<sup>6</sup></b>	DESCRIPTION
0250	General Pharmacy
0251	Generic Pharmacy
0260	General IV Therapy
0636	Drug Requiring Detailed Coding

10-DIGIT NDC <sup>7</sup>	NOTES
Varies	Several manufacturers produce busulfan. Therefore, providers should reference and apply the appropriate NDC code, if required by payers.

Payers may vary on their requirements for detailed coding on the delivery of any conditioning regimen associated with subsequent ZYNTEGLO administration. These requirements can vary based on the setting of care as well as for the patient's specific plan. Providers should confirm requirements with individual payers.

 Zynteglo

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 Suspension for IV infusion

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Treatment Journey

<u>Access &</u> <u>Reimbursement</u> <u>Considerations</u>

<u>Sample Letter of</u> <u>Medical Necessity</u>



ICD-10-PCS CODE<sup>3</sup>

XW133B8

XW143B8

CPT CODE<sup>4</sup>

96413

## Administration Coding

ICD-10-CM CODE <sup>2</sup>	DESCRIPTION
D56.1	Beta-thalassemia

ICD-10-PCS codes are applied to define specific procedures during a hospital inpatient admission.

DESCRIPTION

DESCRIPTION



<u>Conditioning</u> <u>Regimen Coding</u>

Administration Coding

Coding Summary





Transfusion of betibeglogene autotemcel into peripheral vein, percutaneous approach, New Technology Group 8

Transfusion of betibeglogene autotemcel into central vein, percutaneous approach, New Technology Group 8

MS-DRG alignment—Medicare only. Applying the appropriate ICD-10-PCS code and ICD-10-CM diagnosis codes will align inpatient admissions to MS-DRG 016 or 017 for payment. It is the provider's responsibility to contact each payer for payer-specific coding requirements before submitting any claims.

MS-DRG <sup>13</sup>	DESCRIPTION
016	Autologous bone marrow transplant with cc/mcc
017	Autologous bone marrow transplant without cc/mcc



Indication and Important Safety Information

<u>References</u>

Chemotherapy administration, intravenous infusion technique; up to 1 hour, single or initial substance/drug

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96415 Chemotherapy administration, intravenous infusion technique; each additional hour

ZYNTEGLO does not currently have a unique HCPCS code. Until a unique HCPCS code is assigned by CMS, ZYNTEGLO may be reported by using one of the following unclassified HCPCS codes per payer requirements.

HCPCS CODE <sup>5</sup>	DESCRIPTION
J3490	Unclassified drugs
J3590	Unclassified biologics

# Zynteglo Markov (betibeglogene autotemcel) Suspension for IV infusion

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Treatment Journey

<u>Access &</u> <u>Reimbursement</u> <u>Considerations</u>

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## Administration Coding (cont'd)

CELL/GENE THERAPY REVENUE CODE <sup>6</sup>	DESCRIPTION
0872	Cell/Gene Therapy Specialized Biologic Processing and Storage–Prior to Transport
0873	Cell/Gene Therapy Storage and Processing after Receipt of Cells from Manufacturer
0874	Cell/Gene Therapy Infusion of Modified Cells



<u>Conditioning</u> <u>Regimen Coding</u>

Administration Coding

Coding Summary





0892

Many payers require that the ZYNTEGLO NDC code be reported on the claim, using an 11-digit format (5-4-2) to comply with the electronic claims transaction provisions of the Health Insurance Portability and Accountability Act of 1996 (HIPAA).<sup>8</sup> Requirements may vary by payer. For example, certain payers may require the 10-digit NDC code; others may require the N4 format.

10-DIGIT NDC <sup>7</sup>	11-DIGIT NDC <sup>8</sup>	CLAIM REPORTING REQUIREMENTS <sup>9</sup>
73554-3111-1	73554-3111-01	N473554311101UN

These codes should be confirmed with each payer.



Indication and Important Safety Information

<u>References</u>

# Zynteglo Suppose <

Please see Important Safety Information on pages 16-18 and full Prescribing Information.

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#### Treatment Journey

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<u>Sample Letter of</u> <u>Medical Necessity</u>

## Select Coding Summary

#### HOSPITAL REVENUE CODES

One or more of the following revenue codes may apply to services associated with ZYNTEGLO. Each payer's acceptance of and associated claim documentation for these codes should be verified.

#### **ICD-10-CM DIAGNOSIS CODES**

Providers should code to the level of specificity documented in the patient's medical record, which could fall under the ICD-10-CM diagnosis code below.

	ulu de vermeu.	
REVENUE CODE <sup>6</sup>	DESCRIPTION	D5
0871	Cell/Gene Therapy Cell Collection	HC ZYN1
0872	Cell/Gene Therapy Specialized Biologic Processing and Storage— Prior to Transport	code CMS the fo reaui

ICD-10-CM CODE <sup>2</sup>	DESCRIPTION
D56.1	Beta-thalassemia

#### HCPCS LEVEL II PRODUCT CODES

ZYNTEGLO does not currently have a unique HCPCS code. Until a unique HCPCS code is assigned by CMS, ZYNTEGLO may be reported by using one of the following unclassified HCPCS codes per payer requirements.

<u>Cell Collection</u>	
<u>Coding</u>	

<u>Conditioning</u> <u>Regimen Coding</u>

Administration Coding

**Coding Summary** 





0873	Cell/Gene Thera Processing after	py Storage and Receipt of Cells	HCPCS CO	DE <sup>5</sup>	DESCRIPTION
	from Manufactu		J3490		Unclassified drugs
0874	Cell/Gene Thera Modified Cells	apy Infusion of	J3590		Unclassified biologics
0892 Pharmacy—Special Processed Drugs —FDA Approved Gene Therapy		ICD-10-PCS INPATIENT PROCEDURE CODES ZYNTEGLO-specific ICD-10-PCS codes became effective 10/01/2022.			
NDC INFOR	<b>MATION</b>				
Payers may require that either a 10-digit or 11-digit format NDC code be documented on claims for ZYNTEGLO. The		ns for ZYNTEGLO. The	ICD-10-PC CODE <sup>3</sup>	S DESCR	IPTION
	ble below outlines the format options, including otential requirement of an NDC qualifier (N4).		XW133B8	Transfu	Transfusion betibeglogene
10-DIGIT NDC <sup>7</sup>	11-DIGIT NDC <sup>8</sup>	CLAIM REPORTING REQUIREMENT <sup>9</sup>		autoter percuta	ncel into peripheral vein, aneous approach, New logy Group 8



Indication and Important Safety Information

<u>References</u>

73554-3111-1 73554-3111-01 N473554311101UN

XW143B8

#### VALUE CODE

Select payers may require a Value Code to document the invoice price for ZYNTEGLO.

VALUE CODE <sup>12</sup>	DESCRIPTION
87	Invoice/acquisition cost of modified biologics. For use with Revenue Category 0892

#### **CPT® CODES**

Currently, there is no gene therapy-specific infusion code. Therefore, the following CPT® codes may be applicable for ZYNTEGLO administration.

CPT <sup>®</sup> CODE <sup>4</sup>	DESCRIPTION

Transfusion betibeglogene autotemcel into central vein, percutaneous approach, New Technology Group 8

96413

Chemotherapy administration, intravenous infusion technique; up to 1 hour, single or initial substance/drug

In all cases, providers should verify claims coding requirements by payer.

 Zynteglo

 betibeglogene autotemcel

 suspension for IV infusion

For reimbursement questions or appeals support, talk with a Patient Navigator at my bluebird support by calling 1-833-888-6378, emailing mybluebirdsupport@bluebirdbio.com, or visiting mybluebirdsupport.com.

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Treatment Journey

Access & Reimbursement Considerations

Sample Letter of <u>Medical Necessity</u>

## Fertility Preservation

The myeloablative conditioning regimen associated with ZYNTEGLO treatment can increase risk of infertility. Therefore, consideration may be appropriate for pursuing fertility preservation.

#### **FERTILITY PRESERVATION**

The American Society of Clinical Oncology (ASCO)<sup>10</sup> and the National Comprehensive Cancer Network (NCCN)<sup>11</sup> have guidance on the need for fertility preservation in patients receiving gonadotoxic therapy. This guidance may provide support in discussions with payers when pursuing coverage of preservation services. These guidelines may be found at the following links:



<u>Conditioning</u> <u>Regimen Coding</u>

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Fertility Preservation



These links will take you to sites that are outside the control of bluebird bio, Inc. Links are provided for informational purposes only. We do not make or imply any endorsement of external websites.

#### <u>ASCO Publication - Fertility Preservation in Patients With Cancer</u>

Fertility preservation for iatrogenic infertility may be covered by payers. Providers should confirm covered benefits and can reference the pending treatment with myeloblative conditioning agent(s) as a conditioning regimen for subsequent ZYNTEGLO treatment.

Covered services may include the following procedures, when provided by or under the care or supervision of a physician:

- Collection of sperm
- Cryo-preservation of sperm
- Ovarian stimulation, retrieval of eggs and fertilization

#### Form

Indication and Important Safety Information

References

Oocyte cryo-preservation

Embryo cryo-preservation

When using any of the referenced available CPT codes for fertility preservation, they may be billed with the following ICD-10-CM diagnosis code:

Z31.84: Encounter for fertility preservation procedure prior to cancer therapy<sup>2</sup>

**Syntegio** (betibeglogene autotemcel) suspension for IV infusion

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Treatment Journey

<u>Access &</u> <u>Reimbursement</u> <u>Considerations</u>

<u>Sample Letter of</u> <u>Medical Necessity</u>

## Fertility Preservation (cont'd)

CPT CODE <sup>4</sup>	CPT CODE DESCRIPTOR
58321	Artificial insemination; intra-cervical
58970	Follicle puncture for oocyte retrieval, any method
89250	Culture of oocyte(s)/embryo(s), less than 4 days
89251	Culture of oocyte(s)/embryo(s), less than 4 days; with co-culture of oocyte(s)/embryos
89253	Assisted embryo hatching, microtechniques (any method)

<u>Cell Collection</u>
<u>Coding</u>

<u>Conditioning</u> <u>Regimen Coding</u>

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Coding Summary

Fertility Preservation



89254	Oocyte identification from follicular fluid
89258	Cryopreservation; embryo(s)
89259	Cryopreservation; sperm
89260	Sperm isolation; simple prep (eg, sperm wash and swim-up) for insemination or diagnosis with semen analysis
89261	Sperm isolation; complex prep (eg, Percoll gradient, albumin gradient) for insemination or diagnosis with semen analysis
89264	Sperm identification from testis tissue, fresh or cryopreserved
89268	Insemination of oocytes
89272	Extended culture of oocyte(s)/embryo(s), 4-7 days
89280	Assisted oocyte fertilization, microtechnique; less than or equal to 10 oocytes



Indication and Important Safety Information

<u>References</u>

89281	Assisted oocyte fertilization, microtechnique; greater than 10 oocytes
89320	Semen analysis; volume, count, motility, and differential
89337	Cryopreservation, mature oocyte(s)
89342	Storage (per year); embryo(s)
89343	Storage (per year); sperm/semen
89346	Storage (per year); oocyte(s)

When using any of the referenced available CPT codes for fertility preservation, they may be Payers may vary on their requirements for detailed coding on the delivery of any fertility preservation regimen associated with subsequent ZYNTEGLO administration. These requirements can vary based on the setting of care as well as for the patient's specific plan. Providers should confirm requirements with individual payers.

billed with the following ICD-10-CM diagnosis code:

Z31.84: Encounter for fertility preservation procedure prior to cancer therapy<sup>2</sup>

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 Suspension for IV infusion

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Treatment Journey

<u>Access &</u> <u>Reimbursement</u> <u>Considerations</u>

<u>Sample Letter of</u> <u>Medical Necessity</u>

## Sample CMS 1450 (UB-04) Claim Form for Inpatient Hospital Admissions

Clicking on the image below will open the Sample Claims Form in a new window.

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This sample form to be directive or independent clini a claim is the resp	construed as m ical judgment wi ponsibility of the	edical or lega nen selecting e healthcare	al advice codes a provider	<ul> <li>Healthcand</li> <li>nd submit</li> <li>There is</li> </ul>	are providers ting claims. 7 no guarantee	should exerc he accurate regarding re	ise completion of •imbursement		RE	EC. #				ATEMENT ROM	s period Through	7	011X
for any service or item. Since requirements may vary, providers should refer to specific payer policies. Please see Important Safety Information on pages 16-18 in the ZYNTEGLO™ (betibeglogene autotemcel) Billing and Coding Guide and full <u>Prescribing Information</u> .									c       d         CONDITION CODES       29 ACDT         22       23       24       25       26       27       28       STATE						e		
3			i			n m						T					



<u>Conditioning</u> <u>Regimen Coding</u>

Administration Coding

Coding Summary



**Sample Claims** 



#### TYPE OF BILL<sup>14</sup>

Enter the appropriate type of bill code. For example, 011X for an inpatient hospital facility.

#### 39-41 VALUE CODES<sup>12</sup>

Payers may require a Value Code to



#### HCPCS<sup>5</sup>

Enter the appropriate HCPCS Level II code, along with the applicable modifier. For example, J3590 or J3490. In lieu of a gene therapyspecific code for the infusion, the 96413 CPT code may be required.

#### Form

Indication and Important Safety Information

<u>References</u>

document acquisition cost for ZYNTEGLO. Enter the appropriate value code(s). For example, Value Code 87 is defined as: Invoice/acquisition cost of modified biologics. For use with Revenue Category 0892.

#### **REVENUE CODE<sup>6</sup>**

Enter the appropriate revenue code for each reported line. For example, 0892 Charges for Gene Therapy.

#### **DESCRIPTION**<sup>9</sup>



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Enter the 11-digit NDC with an appended N4 qualifier. Enter the appropriate description for corresponding revenue codes.



#### **SERVICE DATE**

Enter the corresponding date(s) of service.



#### **SERVICE UNITS<sup>5</sup>**

Enter appropriate units of service. For unclassified codes, such as J3490 and J3590, 1 unit of service is typically reported.



#### **TOTAL CHARGES**

Enter total charges for each reported line.

Sample forms are for informational purposes only. The accurate completion of a claim is the responsibility of the healthcare provider. There is no guarantee regarding reimbursement for any service or item. Since requirements may vary, providers should refer to specific payer policy.

Zynteglo (betibeglogene autotemcel) suspension for IV infusion For reimbursement questions or appeals support, talk with a Patient Navigator at my bluebird support by calling 1-833-888-6378, emailing mybluebirdsupport@bluebirdbio.com, or visiting mybluebirdsupport.com.

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Treatment Journey

Access & Reimbursement Considerations

Sample Letter of <u>Medical Necessity</u>

# Sample CMS 1450 (UB-04) Claim Form for Inpatient Hospital Admissions (cont'd)

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	50 PAYER NAME 51	1 HEALTH PLAN ID	52 REL. 53 ASG. INFO BEN.	54 PRIOR PAYMENTS	55 EST. AMOUNT DUE	56 NPI			
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	58 INSURED'S NAME	59 P. REL 60 INSURED'S UNIQUE I	D	61 GP	ROUP NAME	62 INSURANCE GROUP NO.			
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#### <u>Cell Collection</u> <u>Coding</u>

<u>Conditioning</u> <u>Regimen Coding</u>

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<u>Coding Summary</u>



**Sample Claims** 





Enter the appropriate ICD-10-CM diagnosis code(s) for patient condition(s). For example, D56.1  $\beta$ -thalassemia.

#### Form

Indication and Important Safety Information

References



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#### **PRINCIPAL PROCEDURE<sup>3</sup>**

Enter relevant ICD-10-PCS procedure code(s) with corresponding date(s) of service. CMS has assigned XW133B8 and XW143B8 for ZYNTEGLO<sup>™</sup> effective 10/01/2022.



**REMARKS**<sup>14</sup>

Enter relevant product information when reporting a miscellaneous HCPCS code. For example, drug name, dosage, NDC number and route of administration, and bluebird Patient ID.

Sample forms are for informational purposes only. The accurate completion of a claim is the responsibility of the healthcare provider. There is no guarantee regarding reimbursement for any service or item. Since requirements may vary, providers should refer to specific payer policy.

(betibeglogene autotemcel)

For reimbursement questions or appeals support, talk with a Patient Navigator at my bluebird support by calling 1-833-888-6378, emailing <u>mybluebirdsupport@bluebirdbio.com</u>, or visiting <u>mybluebirdsupport.com</u>.



Treatment Journey

Access & Reimbursement Considerations

Sample Letter of <u>Medical Necessity</u>

## Indication and Important Safety Information<sup>1</sup>

#### INDICATION

ZYNTEGLO is indicated for the treatment of adult and pediatric patients with β-thalassemia who require regular red blood cell (RBC) transfusions.

#### **IMPORTANT SAFETY INFORMATION**

#### **Delayed Platelet Engraftment**

Delayed platelet engraftment has been observed with ZYNTEGLO treatment. Bleeding risk is increased prior to platelet engraftment and may continue after engraftment in patients with prolonged thrombocytopenia; 15% of patients had  $\geq$  Grade 3 decreased platelets on or after Day 100.



<u>Conditioning</u> <u>Regimen Coding</u>

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<u>Coding Summary</u>





Patients should be made aware of the risk of bleeding until platelet recovery has been achieved. Monitor patients for thrombocytopenia and bleeding according to standard guidelines. Conduct frequent platelet counts until platelet engraftment and platelet recovery are achieved. Perform blood cell count determination and other appropriate testing whenever clinical symptoms suggestive of bleeding arise.

#### **Risk of Neutrophil Engraftment Failure**

There is a potential risk of neutrophil engraftment failure after treatment with ZYNTEGLO. Neutrophil engraftment failure is defined as failure to achieve three consecutive absolute neutrophil counts (ANC)  $\geq$  500 cells/microliter obtained on different days by Day 43 after infusion of ZYNTEGLO. Monitor neutrophil counts until engraftment has been achieved. If neutrophil engraftment failure occurs in a patient treated with ZYNTEGLO, provide rescue treatment with the back-up collection of CD34+ cells.



Indication and **Important Safety** Information

References

#### **Risk of Insertional Oncogenesis**

There is a potential risk of lentiviral vector (LVV)-mediated insertional oncogenesis after treatment with ZYNTEGLO.

Patients treated with ZYNTEGLO may develop hematologic malignancies and should be monitored lifelong. Monitor for hematologic malignancies with a complete blood count (with differential) at Month 6 and Month 12 and then at least annually for at least 15 years after treatment with ZYNTEGLO, and integration site analysis at Months 6, 12, and as warranted.

In the event that a malignancy occurs, contact bluebird bio at 1 833-999-6378 for reporting and to obtain instructions on collection of samples for testing.

#### Hypersensitivity Reactions

Allergic reactions may occur with the infusion of ZYNTEGLO. The dimethyl sulfoxide (DMSO) in ZYNTEGLO may cause hypersensitivity reactions, including anaphylaxis.

### **Zynteglo**<sup>™</sup> (betibeglogene autotemcel) suspension for IV infusior



Treatment Journey

<u>Access &</u> <u>Reimbursement</u> <u>Considerations</u>

<u>Sample Letter of</u> <u>Medical Necessity</u>

## Important Safety Information<sup>1</sup> (cont'd)

#### **IMPORTANT SAFETY INFORMATION (CONT'D)**

#### **Anti-retroviral and Hydroxyurea Use**

Patients should not take prophylactic HIV anti-retroviral medications or hydroxyurea for at least one month prior to mobilization, or for the expected duration for elimination of the medications, and until all cycles of apheresis are completed. If a patient requires anti-retrovirals for HIV prophylaxis, then confirm a negative test for HIV before beginning mobilization and apheresis of CD34+ cells.

#### Interference with Serology Testing

Patients who have received ZYNTEGLO are likely to test positive by polymerase chain reaction (PCR) assays for HIV due to integrated BB305 LVV proviral DNA, resulting in a false-positive test for HIV. Therefore, patients who have received ZYNTEGLO should not be screened for HIV infection using a PCR-based assay.

<u>Cell Collection</u> <u>Coding</u>

<u>Conditioning</u> <u>Regimen Coding</u>

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Sample Claims

#### **Adverse Reactions**

The most common non-laboratory adverse reactions (≥20%) were mucositis, febrile neutropenia, vomiting, pyrexia, alopecia, epistaxis, abdominal pain, musculoskeletal pain, cough, headache, diarrhea, rash, constipation, nausea, decreased appetite, pigmentation disorder, and pruritus. The most common Grade 3 or 4 laboratory abnormalities (>50%) include neutropenia, thrombocytopenia, leukopenia, anemia, and lymphopenia.

#### **Drug Interactions**

Drug-drug interactions between iron chelators and the myeloablative conditioning agent must be considered. Iron chelators should be discontinued at least 7 days prior to initiation of conditioning. The prescribing information for the iron chelator(s) and the myeloablative conditioning agent should be consulted for the recommendations regarding co-administration with CYP3A substrates.



Indication and Important Safety Information

<u>References</u>

Some iron chelators are myelosuppressive. After ZYNTEGLO infusion, avoid use of these iron chelators for 6 months. If iron chelation is needed, consider administration of non-myelosuppressive iron chelators. Phlebotomy can be used in lieu of iron chelation, when appropriate.



Please see additional Important Safety Information on pages 16 and 18 and full Prescribing Information.

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Treatment Journey

<u>Access &</u> <u>Reimbursement</u> <u>Considerations</u>

<u>Sample Letter of</u> <u>Medical Necessity</u>

## Important Safety Information<sup>1</sup> (cont'd)

#### **IMPORTANT SAFETY INFORMATION (CONT'D)**

#### **Pregnancy/Lactation**

Advise patients of the risks associated with conditioning agents, including on pregnancy and fertility.

ZYNTEGLO should not be administered to women who are pregnant, and pregnancy after ZYNTEGLO infusion should be discussed with the treating physician.

ZYNTEGLO is not recommended for women who are breastfeeding, and breastfeeding after ZYNTEGLO infusion should be discussed with the treating physician.



<u>Conditioning</u> <u>Regimen Coding</u>

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#### Females and Males of Reproductive Potential

A negative serum pregnancy test must be confirmed prior to the start of mobilization and re-confirmed prior to conditioning procedures and before ZYNTEGLO administration.

Women of childbearing potential and men capable of fathering a child should use an effective method of contraception (intra uterine device or combination of hormonal and barrier contraception) from start of mobilization through at least 6 months after administration of ZYNTEGLO.

Advise patients of the option to cryopreserve semen or ova before treatment if appropriate.



Indication and Important Safety Information

<u>References</u>

#### Zynteglo betibeglogene autotemcel) suspension for IV infusion



Treatment Journey

<u>Access &</u> <u>Reimbursement</u> <u>Considerations</u>

<u>Sample Letter of</u> <u>Medical Necessity</u>

### References

1. ZYNTEGLO [prescribing information], Somerville, MA; bluebird bio, Inc.; August 2022.

- Centers for Disease Control and Prevention. ICD-10-CM Diagnosis Codes. National Center for Health Statistics–ICD-10-CM. Accessed January 2024 at: <u>https://icd10cmtool.cdc.gov/?</u> <u>fy=FY2022</u>
- Centers for Medicare & Medicaid Services. 2024 ICD-10-PCS. 2024 ICD-10-PCS Codes File–Updated 12/19/2023. Accessed January 2024 at: <u>https://www.cms.gov/medicare/ coding-billing/icd-10-codes/2024-icd-10-pcs</u> Open zip file: 2024 ICD-10-PCS Codes File -Updated 12/19/2023 (ZIP) then text document: icd10pcs\_codes\_2024.
- 4. American Medical Association. Current Procedural Terminology: CPT<sup>®</sup> 2024 Professional Edition. AMA Press; 2023.
- Centers for Medicare & Medicaid Services. Healthcare Common Procedure Coding System (HCPCS) Release & Code Sets. HCPCS Quarterly Update. Accessed January 2024 at: <u>https://www.cms.gov/media/598441</u> Open zip file then open Microsoft Excel Worksheet: HCPC2024\_JAN\_ANWEB\_v4

<u>Cell Collection</u> <u>Coding</u>

<u>Conditioning</u> <u>Regimen Coding</u>

Administration Coding

Coding Summary





- 6. Noridian Healthcare Solutions. Hospital Revenue Codes. Accessed January 2024 at: <u>https://</u> med.noridianmedicare.com/web/jea/topics/claim-submission/revenue-codes
- 7. US Food and Drug Administration. NDC Code Directory. Accessed January 2024 at: <a href="https://www.accessdata.fda.gov/scripts/cder/ndc/dsp\_searchresult.cfm">https://www.accessdata.fda.gov/scripts/cder/ndc/dsp\_searchresult.cfm</a>
- 8. Federal Register. Future Format of the National Drug Code; Public Hearing; Request for Comments. Accessed January 2024 at: <u>https://www.federalregister.gov/documents/</u>2018/08/07/2018-16807/future-format-of-the-national-drug-code-public-hearing-requestfor-comments
- 9. CIGNA Resources. Coding Guidelines for Drug-Related Medical Claims. Accessed January 2024 at: <u>https://static.cigna.com/assets/chcp/resourceLibrary/medicalResourcesList/</u> medicalDoingBusinessWithCigna/codingGuidelinesForDrugRelatedMedicalClaims.html
- 10. Fertility Preservation in Patients with Cancer: ASCO Clinical Practice Guideline Update. Updated 2018. Accessed January 2024 at: <u>https://ascopubs.org/doi/full/10.1200/</u> JCO.2018.78.1914



Indication and Important Safety Information

#### References

- Bhatia S, Pappo AS, Acquazzino M, et al. Adolescent and Young Adult (AYA) Oncology, Version 2.2024, NCCN Clinical Practice Guidelines in Oncology. J Natl Compr Canc Netw. 2023;21(8):851-880. doi:10.6004/jnccn.2023.0040
- 12. National Uniform Billing Committee (NUBC). Summary of Gene and Cell Therapy Coding Changes. Accessed January 2024 at: <u>https://www.nubc.org/system/files/media/file/</u> <u>2020/02/Cell-Gene%20Therapy%20Code%20Changes.pdf</u>
- 13. Centers for Medicare & Medicaid Services. MS-DRG Classifications and Software. Open ICD-10 MS-DRG Definitions Manual Files (V41) (ZIP). Open appendix A. <u>https://www.cms.gov/files/zip/icd-10-ms-drg-definitions-manual-files-v41.zip</u>
- 14. Centers for Medicare & Medicaid Services. Completing and processing the form CMS-1450 data set. In: Medicare Claims Processing Manual. CMS; Revised August 06, 2021. Accessed January 2024. Pages 10-21. <u>https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Downloads/clm104c25.pdf</u>

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 Zynteglo

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 (betibeglogene autotemcel)

 Suspension for IV infusion

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