

BILLING & CODING GUIDE

A Resource For Coding, Billing, and Reimbursement Information For SKYSONATM

INDICATION

SKYSONA is indicated to slow the progression of neurologic dysfunction in boys 4-17 years of age with early, active cerebral adrenoleukodystrophy (CALD). Early, active cerebral adrenoleukodystrophy refers to asymptomatic or mildly symptomatic (neurologic function score, NFS \leq 1) boys who have gadolinium enhancement on brain magnetic resonance imaging (MRI) and Loes scores of 0.5-9.

This indication is approved under accelerated approval based on 24-month Major Functional Disability (MFD)-free survival. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial(s).

Limitations of Use

SKYSONA does not prevent the development of or treat adrenal insufficiency due to adrenoleukodystrophy.

An immune response to SKYSONA may limit the persistence of descendent cells of SKYSONA, causing rapid loss of efficacy of SKYSONA in patients with full deletions of the human adenosine triphosphate binding cassette, sub family D, member 1 (*ABCD1*) gene.

SKYSONA has not been studied in patients with CALD secondary to head trauma.

Given the risk of hematologic malignancy with SKYSONA, and unclear long-term durability of SKYSONA and human adrenoleukodystrophy protein (ALDP) expression, careful consideration should be given to the appropriateness and timing of treatment for each boy, especially for boys with isolated pyramidal tract disease based on available treatment options since their clinical symptoms do not usually occur until adulthood.

IMPORTANT SAFETY INFORMATION

WARNING: HEMATOLOGIC MALIGNANCY

Hematologic malignancies, including life-threatening cases of myelodysplastic syndrome and acute myeloid leukemia, have occurred in patients treated with SKYSONA. Patients have been diagnosed between 14 months and 7.5 years after SKYSONA administration, and the cancers appear to be the result of the SKYSONA lentiviral vector, Lenti-D, integration in proto-oncogenes. Monitor patients closely for evidence of malignancy through complete blood counts at least every 3 months. Monitor patients through assessments for evidence for clonal expansion or predominance at least twice in the first year and annually thereafter; consider bone marrow evaluations as clinically indicated.

PLEASE NOTE:

This Billing and Coding Guide is intended to help healthcare professionals understand key billing and coding considerations for SKYSONA and its related services when using SKYSONA for its FDA-approved use during a hospital inpatient 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. Providers 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 regarding coding for a specific plan.



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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We're committed to standing by your patients and caregivers



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.

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.



ELEVATE

Collaborating with your patient to help reach personal health goals



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HOSPITAL Cell Collection (mobilization and apheresis) INPATIENT More than one collection may be required to acquire the SETTING amount needed for transplanting.¹ Plerixafor, in combination with G-CSF, can be dosed and documented based on hospital protocol for mobilization.¹ Full Myeloablative and **SKYSONA** Infusion Lymphodepleting CONDUCTED Conditioning¹ **DURING A** HOSPITAL **INPATIENT ADMISSION** Bone Marrow Engraftment

Post-infusion monitoring/Long-term follow-up¹

Patients should be prepared to remain hospitalized and monitored for up to approximately 2 months after infusion. Patients should be monitored lifelong for hematologic malignancy. For the first fifteen years after treatment with SKYSONA, monitor via complete blood count (with differential) at least every 3 months and via integration site analysis or other testing for evidence of clonal expansion and predominance at least twice in the first year and then annually.



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CONDUCTED

OUTPATIENT

HOSPITAL

OR



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Cell Collection Coding

MOBILIZATION AND APHERESIS

ICD-10-CM CODE ²	DESCRIPTION
E71.520	Childhood cerebral X-linked adrenoleukody trophy
When apheresis is conducted during a hospital inpatient admission, the following ICD-10-PCS codes may apply:	
ICD-10-PCS CODES ³	DESCRIPTION
ICD-10-PCS CODES ³ 6A550ZV	DESCRIPTION Pheresis of Hematopoietic Stem Cells, Single

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

CPT is a registered trademark of the American Medical Association.

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 25.227-7015 (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 [®] CODES⁴	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

* Report the code for each collection encounter

HCPCS CODES⁵	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

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

REVENUE CODES ⁶	DESCRIPTION
0250	Pharmacy
0636	Drugs requiring detailed coding
0871	Cell/Gene Therapy Cell Collection

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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Conditioning Regimen Coding

A busulfan/fludarabine or busulfan/cyclophosphamide regimen was administered in clinical trials, for conditioning prior to administration of SKYSONA.¹

ICD-10-CM CODE ²	DESCRIPTION
E71.520	Childhood cerebral X-linked adrenoleukodystrophy
ICD-10-PCS CODE ³	DESCRIPTION
3E03305	Introduction of Other Antineoplastic into Peripheral Vein, Percutaneous Approach
CPT CODES⁴	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 CODES⁵	DESCRIPTION
HCPCS CODES⁵ J0594	DESCRIPTION Injection, busulfan, 1 mg
HCPCS CODES ⁵ J0594 J9185	DESCRIPTION Injection, busulfan, 1 mg Injection, fludarabine, 50 mg
HCPCS CODES ⁵ J0594 J9185 J9070	DESCRIPTION Injection, busulfan, 1 mg Injection, fludarabine, 50 mg Injection, cyclophosphamide, 100 mg
HCPCS CODES ⁵ J0594 J9185 J9070	DESCRIPTION Injection, busulfan, 1 mg Injection, fludarabine, 50 mg Injection, cyclophosphamide, 100 mg
HCPCS CODES ⁵ J0594 J9185 J9070 HCPCS CODES ⁵	DESCRIPTION Injection, busulfan, 1 mg Injection, fludarabine, 50 mg Injection, cyclophosphamide, 100 mg DESCRIPTION
HCPCS CODES ⁵ J0594 J9185 J9070 HCPCS CODES ⁵ 0250	DESCRIPTION Injection, busulfan, 1 mg Injection, fludarabine, 50 mg Injection, cyclophosphamide, 100 mg DESCRIPTION General Pharmacy
HCPCS CODES ⁵ J0594 J9185 J9070 HCPCS CODES ⁵ 0250 0251	DESCRIPTION Injection, busulfan, 1 mg Injection, fludarabine, 50 mg Injection, cyclophosphamide, 100 mg DESCRIPTION General Pharmacy Generic Pharmacy
HCPCS CODES ⁵ J0594 J9185 J9070 HCPCS CODES ⁵ 0250 0251 0260	DESCRIPTION Injection, busulfan, 1 mg Injection, fludarabine, 50 mg Injection, cyclophosphamide, 100 mg DESCRIPTION General Pharmacy Generic Pharmacy General IV Therapy
HCPCS CODES ⁵ J0594 J9185 J9070 HCPCS CODES ⁵ 0250 0251 0260 0636	DESCRIPTION Injection, busulfan, 1 mg Injection, fludarabine, 50 mg Injection, cyclophosphamide, 100 mg DESCRIPTION General Pharmacy Generic Pharmacy General IV Therapy Drug Requiring Detailed Coding

10-DIGIT NDC [®]	NOTES
Varies	Several manufacturers produce busulfan, fludarabine, and cyclophosphamide. 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 SKYSONA 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.





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At this point in time, no product-specific ICD-10-PCS, CPT or HCPCS codes have been assigned to SKYSONA and its administration. Providers may be required to identify SKYSONA with a miscellaneous HCPCS code or general ICD-10-PCS code. These codes should be confirmed with each payer.

ICD-10-CM CODE ²	DESCRIPTION
E71.520	Childhood cerebral X-linked adrenoleukodystrophy
ICD-10-PCS codes are applied to define specific procedures during a hospital inpatient admission.	
ICD-10-PCS CODES ³	DESCRIPTION
ICD-10-PCS CODES ³ 30233C0*	DESCRIPTION Transfusion of autologous hematopoietic stem/progenitor cells, genetically modified into peripheral vein, percutaneous approach

genetically modified into central vein, percutaneous approach

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 ⁶	DESCRIPTION
016	Autologous bone marrow transplant with cc/mcc
017	Autologous bone marrow transplant without cc/mcc

CPT CODES⁴	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 CODES⁵	DESCRIPTION
J3490	Unclassified drugs
J3590	Unclassified biologics





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Administration (cont'd)

At this point in time, no product-specific ICD-10-PCS, CPT or HCPCS codes have been assigned to SKYSONA and its administration. Providers may be required to identify SKYSONA with a miscellaneous HCPCS code or general ICD-10-PCS code. These codes should be confirmed with each payer.

CELL/GENE THERAPY REVENUE CODES ¹¹	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
0892	Special Processed Drugs-FDA Approved Gene Therapy-Charges for Modified Gene Therapy

Many payers require that the SKYSONA 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). ⁹ 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 [®]	11-DIGIT NDC ⁹	CLAIM REPORTING REQUIREMENTS ¹⁰
73554-2111-1	73554-2111-01	N473554211101UN





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HOSPITAL REVENUE CODES

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

REVENUE CODES ¹¹	DESCRIPTION
0871	Cell/Gene Therapy Cell Collection
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 Cells
0874	Cell/Gene Therapy Infusion of Modified Cells
0892	Special Processed Drugs—FDA Approved Gene Therapy—Charges for Modified gene therapy

NDC INFORMATION

Payers may require that either a 10-digit or 11-digit format NDC code be documented on claims for SKYSONA. The table below outlines the format options, including potential requirement of an NDC qualifier (N4).

10-DIGIT NDC ⁸	11-DIGIT NDC ⁹	DESCRIPTION ¹⁰
73554-2111-1	73554-2111-01	N473554211101UN

VALUE CODE

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

VALUE CODE ¹¹	DESCRIPTION
87	Invoice/acquisition cost of modified biologics. For use with Revenue Category 0892

CPT® CODE

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

CPT® CODE⁴	DESCRIPTION
96413	Chemotherapy administration, intravenous infusion technique; up to 1 hour, single or initial substance/drug

ICD-10-CM DIAGNOSIS CODE

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.

ICD-10-CM CODE ²	DESCRIPTION
E71.520	Childhood cerebral X-linked adrenoleukodystrophy

HCPCS LEVEL II PRODUCT CODES

SKYSONA does not currently have a unique HCPCS code. SKYSONA may be reported by using one of the following unclassified HCPCS codes per payer requirements.

HCPCS CODES⁵	DESCRIPTION
J3490	Unclassified drugs
J3590	Unclassified biologics

ICD-10-PCS INPATIENT PROCEDURE CODES

ICD-10-PCS codes are applied to define specific procedures during a hospital inpatient admission. CMS recommends using 30233C0 or 30243C0; however, coding should be verified by payer.

ICD-10-PCS CODES ³	DESCRIPTION
30233C0	Transfusion of autologous hematopoietic stem/ progenitor cells, genetically modified into peripheral vein, percutaneous approach
30243C0	Transfusion of autologous hematopoietic stem/ progenitor cells, genetically modified into central vein, percutaneous approach

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



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my bluebird support

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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.

Sample CMS 1450 (UB-04) Claim Form for Inpatient Hospital Admissions This sample form is provided by bluebird bio, Inc. for informational purposes only and is not intended to be directive or construed as medical or legal advice. Healthcare providers should exercise independent clinical judgment when selecting codes and submitting claims. The accurate completion of a claim is the 4 TYPE 011X STATEMENT COVERS PERIOR responsibility of the healthcare provider. There is no guarantee regarding reimburseme or item. Since requirements may vary, providers should refer to specific payer policies. irsement for any service Field 44: TYPE OF BILL Enter the appropriate type of bill code. For example, 011X for an inpatient hospital Please see Important Safety Information on pages 14-17 in the SKYSONATM (elivaldogene autotemcel) Billing and Coding Guide and full <u>Prescribing Information</u>, including **Boxed WARNING**. facility. 33 OCCURRENCE CODE OCCURRENCE SPAN OCCURRENCE NCE SPA 39-41 Fields 39-41: VALUE CODES¹¹ ALUE C VALUE CODI CODE 41 CODE Payers may require a Value Code to document acquisition cost of SKYSONATM. Enter the appropriate value code(s). For example, Value Code 87 is defined as: Invoice/acquisition cost of modified biologics. 87 \$XXX.XX For use with Revenue Category 0892. 44 HCPCS / RATE / HIPPS COD 43 DESCRIPTION 2 REV. CD 47 TOTAL CHARGES 45 SERV. DATE 46 SERV. UNITS 48 NON-COVERED CHARGES Charges for Modified gene therapy MM DD YYYY 0892 J3590 1 \$XXX.XX N473554211101UN 0874 Cell/Gene Therapy Infusion of Modified Cells 96413 MM DD YYYY [XX] \$XXX.XX 47 44 45 46 47

TYPE OF BILL

Enter the appropriate type of bill code. For example, O11X for an inpatient hospital facility.

VALUE CODES¹¹

Payers may require a Value Code to document acquisition cost for SKYSONA. 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.



42 REVENUE CODE¹¹

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

Enter the 11-digit NDC with an appended N4 qualifier (electronic equivalent Loop 2410, LINO2). Enter the appropriate description for corresponding revenue codes.

HCPCS⁵ ЛЛ

Enter the appropriate HCPCS Level Il 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.

SERVICE DATE

Enter the corresponding date(s) of service.

SERVICE UNITS

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

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Enter total charges for each reported line.

TOTAL CHARGES

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.



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66 DIAGNOSIS CODE(S)²

Enter the appropriate ICD-10-CM diagnosis code(s) for patient condition(s). For example, E71.520 Childhood cerebral X-linked adrenoleukodystrophy.

PRINCIPAL PROCEDURE³

Enter relevant ICD-10-PCS procedure code(s) with corresponding date(s) of service. bluebird bio intends to request a product-specific ICD-10-PCS code for SKYSONA in an upcoming application cycle with CMS. Prior to that date, CMS recommends using 30233CO and 30243CO; however, required interim coding should be verified by payer.

80 REMARKS

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.

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PLANNED ADMISSION

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

SKYSONA

Some 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.

It is recommended that you verify all authorization requirements and/or review any established medical policies with the individual payers.





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Sample Letter of Medical Necessity

SKYSONA

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

SKYSONA[™] (elivaldogene autotemcel) Sample Letter of Medical Necessity

To the Treating Physician:

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

SKYSONA is indicated to slow the progression of neurologic dysfunction in boys 4-17 years of age with early, active cerebral adrenoleukodystrophy (CALD). Early, active cerebral adrenoleukodystrophy refers to asymptomatic or mildly symptomatic (neurologic function score, NFS \leq 1) boys who have gadolinium enhancement on brain magnetic resonance imaging (MRI) and Loes scores of 0.5-9.

This indication is approved under accelerated approval based on 24-month Major Functional Disability (MFD)-free survival. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial(s).

Limitations of Use

SKYSONA does not prevent the development of or treat adrenal insufficiency due to adrenoleukodystrophy.

An immune response to SKYSONA may limit the persistence of descendent cells of SKYSONA, causing rapid loss of efficacy of SKYSONA in patients with full deletions of the human adenosine triphosphate binding cassette, sub family D, member 1 (*ABCD1*) gene.

SKYSONA has not been studied in patients with CALD secondary to head trauma.

Given the risk of hematologic malignancy with SKYSONA, and unclear long-term durability of SKYSONA and human adrenoleukodystrophy protein (ALDP) expression, careful consideration should be given to the appropriateness and timing of treatment for each boy, especially for boys with isolated pyramidal tract disease based on available treatment options since their clinical symptoms do not usually occur until adulthood.

Please see Important Safety Information on pages 2-5 and full <u>Prescribing Information</u>, including **Boxed WARNING**.

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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 SKYSONA.





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INDICATION

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IMPORTANT SAFETY INFORMATION

WARNING: HEMATOLOGIC MALIGNANCY

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Hematologic Malignancy

Hematologic malignancies, including myelodysplastic syndrome (MDS) and acute myeloid leukemia (AML) have developed in patients treated with SKYSONA in clinical studies between 14 months and 7.5 years after SKYSONA administration. Malignancies are life-threatening and death related to treatment for malignancy has occurred. As of April 2024, hematologic malignancies have been diagnosed in 6/67 (9%) clinical study patients. At diagnosis, all patients had high-frequency integrations in oncogenes; most of which were in *MECOM*. Pathological diagnoses ranged between MDS-unilineage dysplasia to acute myeloid leukemia. Most patients required chemotherapy with or without allogeneic hematopoietic stem cell transplant.

SKYSONA Lenti-D lentiviral vector integration into proto-oncogenes, including *MECOM*, appears to have mediated the cases of hematologic malignancy. All patients treated with SKYSONA in clinical studies have integrations into *MECOM*; it is unknown which integrations into *MECOM* or other proto-oncogenes are likely to lead to malignancy.

Because of the risk of hematologic malignancy, carefully consider alternative therapies including allogeneic hematopoietic stem cell transplant for patients who have a suitable, willing, and available matched sibling donor, prior to the decision to treat a child with SKYSONA.

Consider consultation with hematology experts prior to SKYSONA treatment to inform benefit-risk treatment decision and to ensure adequate monitoring for hematologic malignancy. Consider performing the following baseline hematologic assessments: complete blood count with differential, hematopathology review of peripheral blood smear, and bone marrow biopsy (core and aspirate) with flow cytometry, conventional karyotyping, and next generation sequencing (NGS) with a molecular panel appropriate for age and including coverage for gene mutations expected in myeloid and lymphoid malignancies; and testing for germline mutations that are associated with hematologic malignancy.

Early diagnosis of hematologic malignancy can be critically important, therefore, monitor patients treated with SKYSONA lifelong for hematologic malignancy. For at least the first fifteen years after treatment with SKYSONA, monitor via complete blood count (with differential) at least every 3 months and via integration site analysis or other testing for evidence of clonal expansion and predominance at least twice in the first year and then annually. Consider appropriate expert consultation and additional testing such as more frequent complete blood count (with differential) and integration site analysis, bone marrow studies, and gene expression studies in the following settings after treatment with SKYSONA:

- Delayed or failed engraftment of platelets or other cell lines (while all patients are at risk for hematologic malignancy, patients who do not achieve unsupported platelet counts of $\ge 20 \times 10^9/L$ on or after Day 60 appear to be at higher risk); or
- New or prolonged cytopenias; or,
- Presence of clonal expansion or predominance (e.g., increasing relative frequency of an integration site, especially if ≥ 10% and present in *MECOM* or another protooncogene known to be involved in hematologic malignancy).

If hematologic malignancy is detected in a patient who received SKYSONA, contact bluebird bio at 1-833-999-6378 for reporting and to obtain instructions on collection of samples for further testing.





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Serious Infections

Severe infections, including life-threatening and fatal infections, have occurred in patients after SKYSONA infusion. Important opportunistic infections that have been diagnosed within the first 3 months after treatment with SKYSONA include BK cystitis, cytomegalovirus reactivation, human herpesvirus-6 viremia, candidiasis, and bacteremias. Opportunistic infections after the first 3 months include an atypical mycobacterium vascular device infection, pseudomonas bacteremia, and Epstein-Barr virus reactivations diagnosed as late as 18 months after treatment with SKYSONA. Serious infections involving adenovirus include a case of transverse myelitis at 6 months that was attributed to adenovirus and entero/rhinovirus infection, and a fatal adenovirus infection at 21 months in a patient with CALD progression who developed multisystem organ failure.

Grade 3 or higher infections occurred in 21% of all patients (12% bacterial, 3% viral, and 6% unspecified). The most common Grade 3 or higher infections were vascular device infections (7% of patients) diagnosed as late as 6 months after treatment with SKYSONA, and bacteremias (6% of patients) diagnosed as late as 8 months after treatment with SKYSONA.

Febrile neutropenia was commonly observed in clinical studies and may be a sign of a serious infection. In the event of febrile neutropenia, evaluate for infection and manage with broad-spectrum antibiotics, fluids, and other supportive care as medically indicated.

Monitor patients for signs and symptoms of infection before and after SKYSONA administration and treat appropriately. Administer prophylactic antimicrobials according to best clinical practices and clinical guidelines.

Avoid administration of SKYSONA in patients with active infections.

Prolonged Cytopenias

Patients may exhibit cytopenias, including pancytopenia, for > 1 year following conditioning and SKYSONA infusion.

Grade 3 or higher cytopenias on or after Day 60 following SKYSONA infusion occurred in 47% of patients and included low platelet count (14%), low neutrophil count (22%), low lymphocyte count (27%), and low hemoglobin (2%). Grade 3 cytopenias persisted beyond Day 100 in 15% of patients and included low platelet count (7%), low neutrophil count (9%), and low lymphocyte count (6%).

Serious adverse reactions of pancytopenia occurred in two patients who required support with blood and platelet transfusions as well as growth factors (G-CSF for up to 6 months and eltrombopag for up to 14 months) after SKYSONA administration. One patient had intercurrent parvovirus infection and his pancytopenia was ongoing at least two years after SKYSONA administration. Pancytopenia in the other patient was ongoing until he was diagnosed with myelodysplastic syndrome approximately two years after SKYSONA administration.

Monitor blood counts until normalization and assess patients for signs and symptoms of bleeding and/or infection prior to and after SKYSONA administration.

Delayed Platelet Engraftment

Delayed platelet engraftment (platelet count $\leq 50 \times 10^9/L$ beyond 60 days after treatment with SKYSONA) has been observed. Bleeding risk is increased prior to platelet engraftment and may continue after engraftment in patients with prolonged thrombocytopenia.

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.





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Risk of Neutrophil Engraftment Failure

There is a potential risk of neutrophil engraftment failure after treatment with SKYSONA. Neutrophil engraftment failure was defined as failure to achieve 3 consecutive absolute neutrophil counts (ANC) $\ge 0.5 \times 10^9$ cells/L obtained on different days by Day 43 after infusion of SKYSONA. Monitor neutrophil counts until engraftment has been achieved. If neutrophil engraftment failure occurs in a patient treated with SKYSONA, provide rescue treatment with the back-up collection of CD34+ cells.

Hypersensitivity Reactions

Allergic reactions may occur with the infusion of SKYSONA. The dimethyl sulfoxide (DMSO) in SKYSONA may cause hypersensitivity reactions, including anaphylaxis which is potentially life-threatening and requires immediate intervention.

Anti-retroviral Use

Patients should not take anti-retroviral medications for at least one month prior to mobilization or the expected duration for elimination of the medications, and until all cycles of apheresis are completed. Anti-retroviral medications may interfere with manufacturing of the apheresed cells.

If a patient requires anti-retrovirals for HIV prophylaxis, mobilization and apheresis of CD34+ cells should be delayed until HIV infection is adequately ruled out.

Laboratory Test Interference

SKYSONA affects polymerase chain reaction (PCR) assays for HIV due to LVV provirus insertion. A PCR based assay should not be used to screen for HIV infection in patients treated with SKYSONA as a false positive test result is likely.

Adverse Reactions

Most common non-laboratory adverse reactions (\geq 20%): mucositis, nausea, vomiting, febrile neutropenia, alopecia, decreased appetite, abdominal pain, constipation, pyrexia, diarrhea, headache, rash.

Most common Grade 3 or 4 laboratory abnormalities (≥ 40%): leukopenia, lymphopenia, thrombocytopenia, neutropenia, anemia, hypokalemia.

Vaccines

Vaccination is not recommended during the 6 weeks preceding the start of myeloablative conditioning, and until hematological recovery following treatment with SKYSONA. Where feasible, administer childhood vaccinations prior to myeloablative conditioning for SKYSONA.

Males of Reproductive Potential

Advise patients of the risks associated with mobilization and conditioning agents.

Males capable of fathering a child and their female partners of childbearing potential 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 SKYSONA.

Data are available on the risk of infertility with myeloablative conditioning. Advise patients of the option to cryopreserve semen before treatment if appropriate.





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