



# SmartPA Criteria Proposal

<b>Drug/Drug Class:</b>	Sickle Cell Disease Clinical Edit
<b>First Implementation Date:</b>	August 17, 2020
<b>Revised Date:</b>	July 15, 2021
<b>Prepared for:</b>	MO HealthNet
<b>Prepared by:</b>	MO HealthNet/Conduent
<b>Criteria Status:</b>	<input checked="" type="checkbox"/> Existing Criteria <input type="checkbox"/> Revision of Existing Criteria <input type="checkbox"/> New Criteria

## Executive Summary

**Purpose:** Ensure appropriate utilization and control of agents for Sickle Cell Disease

**Why Issue Selected:** Sickle cell disease (SCD) is a genetic disorder that results in the formation of sickled red blood cells. SCD acutely presents with vascular occlusion, resulting in recurrent pain episodes, severe infections as a result of splenic infarction, acute chest syndrome, pulmonary hypertension, stroke, and cumulative multiorgan damage. These episodes are categorized as vaso-occlusive crises (VOC). Recurrent VOC cause an inflammatory response in the endothelium which ultimately leads to reduced blood flow, obstruction, and pain crises. SCD affects roughly 100,000 Americans and is one of the most common inherited blood disorders. Until recently, the only FDA approved therapies for SCD were hydroxyurea (Siklos® and Droxia®) and L-glutamine (Endari®). Hydroxyurea, a first-line therapy, reduces the incidence of acute painful episodes and hospitalization rates and prolongs survival. Hydrea® (hydroxyurea 500mg capsules) are not FDA approved for SCD and are not included in this edit. Endari was approved in 2017 to reduce acute complications in patients > 5 years of age with SCD; the mechanism is unknown but is thought to involve an antioxidant effect. In November 2019, the FDA approved two new therapies for SCD, Adakveo® (crizanlizumab-tcma) and Oxbryta® (voxelotor). Adakveo, a humanized IgG2 kappa monoclonal antibody, is approved to reduce the frequency of VOC in patients 16 years and older. Oxbryta, a hemoglobin S polymerization inhibitor, is approved for the treatment of SCD in patients 12 years and older. Due to the high cost and specific approved indications, MO HealthNet will impose clinical criteria to ensure appropriate utilization of agents for Sickle Cell Disease.

**Program-Specific Information:**

Date Range FFS 1-1-2020 to 12-31-2020			
Drug	Claims	Spend	Avg Spend per Claim
ADAKVEO 100 MG/10 ML VIAL	58	\$365,135.59	\$6,295.44
DROXIA 200 MG CAPSULE	11	\$366.67	\$33.33
DROXIA 300 MG CAPSULE	69	\$3,538.88	\$51.28
DROXIA 400 MG CAPSULE	73	\$4,233.59	\$57.99
ENDARI 5 GRAM PWD PACKET	32	\$73,898.21	\$2,309.31
OXBRYTA 500 MG TABLET	71	\$688,933.42	\$9,703.28
SIKLOS 100 MG TABLET	0	-	-
SIKLOS 1,000 MG TABLET	0	-	-

Type of Criteria:  Increased risk of ADE  Preferred Drug List  
 Appropriate Indications  Clinical Edit

Data Sources:  Only Administrative Databases  Databases + Prescriber-Supplied

## Setting & Population

- Drug class for review: Agents for Sickle Cell Disease
- Age range: All appropriate MO HealthNet participants aged 2 years or older

## Approval Criteria

- Participant is aged 2 years or older **AND**
- Documented diagnosis of sickle cell disease **AND**
- Prescribed by or in consultation with a hematologist or other appropriate specialist for the treated disease state **AND**
- Participant is not currently pregnant **AND**
- For Siklos (hydroxyurea tablets):
  - Documentation of inability to swallow oral capsule formulations of hydroxyurea due to participant age or clinical condition - approval based on Clinical Consultant Review
- For Endari (L-glutamine oral powder):
  - Participant is aged 5 years or older **AND**
  - For initial therapy:
    - Documentation of at least 2 sickle cell-related VOCs in the past year **AND**
    - Documentation of previous therapeutic trial (at least 3 months of therapy) or concurrent treatment, intolerance, insufficient response, or contraindication with hydroxyurea
  - For renewal of prior authorization: Documentation of reduction in the number of sickle cell-related VOCs
- For Adakveo (crizanlizumab-tmca):
  - Participant is aged 16 years or older **AND**
  - For initial therapy:
    - Documentation of at least 2 sickle cell-related VOCs in the past year **AND**
    - Documentation of previous therapeutic trial (at least 3 months of therapy) or concurrent treatment, intolerance, insufficient response, or contraindication with hydroxyurea
    - Initial approval of prior authorization is 12 months
  - For renewal of prior authorization: Documentation of reduction in the number of sickle cell-related VOCs
- For Oxbryta (voxelotor):
  - Participant is aged 12 years or older **AND**
  - For initial therapy:
    - Documentation of abnormal hemoglobin level > 5.5 to < 10.5 g/dL **AND**
    - Documentation of baseline indirect bilirubin **AND**
    - Documentation of baseline reticulocytes **AND**
    - Documentation of previous therapeutic trial (at least 3 months of therapy) or concurrent treatment, intolerance, insufficient response, or contraindication with hydroxyurea
    - Initial approval of prior authorization is 6 months
  - Renewal of prior authorization may be up to 12 months following documentation of the following:
    - Documentation of increase in hemoglobin by > 1 g/dL from baseline to 24 weeks of therapy **AND**
    - Documentation of reduction in indirect bilirubin from baseline **AND**
    - Documentation of reduction in reticulocytes from baseline

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## Denial Criteria

- Therapy will be denied if all approval criteria are not met

## Required Documentation

Laboratory Results:

Progress Notes:

MedWatch Form:

Other:

## Disposition of Edit

Denial: Exception code "0682" (Clinical Edit)

Rule Type: CE

## Default Approval Period

6 months

## References

- DROXIA (hydroxyurea) capsules. [package insert]. Princeton, New Jersey: Bristol-Myers Squibb Company; February 2021.
- SIKLOS (hydroxyurea) tablets. [package insert]. Bryn Mawr, PA: Medunik USA, Inc; May 2019.
- ENDARI (L-glutamine oral powder). [package insert]. Torrance, CA: Emmaus Medical, Inc; October 2020.
- ADAKVEO® (crizanlizumab-tmca) injection. [package insert]. East Hanover, NJ: Novartis Pharmaceuticals Corporation; November 2019.
- OXBRYTA® (voxelotor) tablets, [package insert]. San Francisco, CA: Global Blood Therapeutics, Inc.; January 2021.
- IPD Analytics. New Drug Review: Adakveo (crizanlizumab-tcma). December 2019.
- IPD Analytics. New Drug Review: Oxbryta (voxelotor). December 2019.
- IPD Analytics. Hematology: Sickle Cell Disease. Accessed February 12, 2021.
- Yawn, Barbara. P., John-Sowah, Joylene. Management of Sickle Cell Disease: Recommendations from the 2014 Expert Panel Report. American Family Physicians. Volume 92, Number 12. December 15, 2015.

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