# **Orphan Drugs**

### Goal(s):

- To support medically appropriate use of orphan drugs (as designated by the FDA) which are indicated for rare conditions
- To limit off-label use of orphan drugs

### **Length of Authorization:**

• Up to 6 months

### Requires PA:

• See Table 1 (pharmacy and physician administered claims)

## **Covered Alternatives:**

- Current PMPDP preferred drug list per OAR 410-121-0030 at www.orpdl.org
- Searchable site for Oregon FFS Drug Class listed at <a href="www.orpdl.org/drugs/">www.orpdl.org/drugs/</a>

Table 1. Indications for orphan drugs based on FDA labeling

Drug	Indication	Age	Dose	Recommended Monitoring
Alpelisib (VIJOICE)	PIK3CA-Related Overgrowth Spectrum (PROS) in those who require systemic therapy	≥ 2 yrs	<ul> <li>Pediatric 2 to &lt;18 yrs:         <ul> <li>50 mg once daily</li> </ul> </li> <li>May consider increase to 125 mg once daily if ≥6 years after 24 weeks of treatment</li> <li>May gradually increase to 250 mg once daily once patient turns 18</li> <li>Adult:         <ul> <li>250 mg once daily</li> </ul> </li> </ul>	Baseline Monitoring Fasting BG, HbA1c  Ongoing Monitoring Fasting BG weekly x 2 weeks, then at least once every 4 weeks, then as clinically indicated HbA1c every 3 months and as clinically indicated
Avacopan (TAVNEOS)	Severe active anti-neutrophil cytoplasmic autoantibody (ANCA)-associated vasculitis (granulomatosis with polyangiitis [GPA] and microscopic polyangiitis [MPA]) in combination with glucocorticoids.	≥18 yrs	30 mg (three 10 mg capsules) twice daily, with food	Baseline Monitoring     Liver function tests ALT, AST, ALP, and total bilirubin     Hepatitis B (HBsAg and anti-HBc)     Ongoing Monitoring     Liver function tests every 4 wks for 6 months, then as clinically indicated

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CRYSVITA    FGF23-related hypophosphatemia in tumor-induced osteomalacia (TIO)   FGF23-related hypophosphatemia in tumor-induced osteomalacia (TIO)   PGF23-related hypophosphatemia in tumor-induced in the post of the po	Burosumab-twza	X-linked hypophosphatemia	<u>XLH</u>	Pediatric <18 yrs:	Baseline and Ongoing Monitoring
FGF23-related hypophosphatemia in tumor-induced osteomalacia (TIO)   ≥ 2 yrs   < 10 kg: 1mg/kg   ≥ 10 mg: 0.8 mg/kg   10 mg/kg   10 mg/kg   10 mg: 0.8 mg/kg   10 mg/kg	(CRYSVITA)	(XLH)	≥ 6 mo		
Adult					
Part			TIO		
TIO ■ 0.4 mg/kg Max dose of 2 mg/kg (not to exceed 90 mg for XLH or 180 mg for TIO)  Adult: XLH.1 mg/kg monthly (rounded to nearest 10 mg; max 90 mg) TIO: 0.5 mg/kg monthly (rounded to nearest 10 mg; max 90 mg) TIO: 0.5 mg/kg monthly initially (Max dose 2 mg/kg or 180 mg every 2 wks)  Belumosudii (REZUROCK)  Treatment of chronic graftversus-host disease after failure of at least two prior lines of systemic therapy  CP79A inducers or proton pump inhibitors  Deriponase affa (BRINEURA)  To slow the loss of ambulation in symptomatic Batten Disease (late infantile neuronal ceroid lipofuscinosis type 2 or TPP1 deficiency)  Elapegademase-lvir (REVCOVI)  Elapegademase-lvir (REVCOVI)  adenosine deaminase severe combined immune deficiency (ADA-SCID)  TIO: 0.5 mg/kg monthly (rounded to nearest 10 mg; max 90 mg) TIO: 0.5 mg/kg monthly (rounded to nearest 10 mg; max 90 mg) TIO: 0.5 mg/kg monthly (rounded to nearest 10 mg; max 90 mg) TIO: 0.5 mg/kg monthly (rounded to nearest 10 mg; max 90 mg) TIO: 0.5 mg/kg monthly (rounded to nearest 10 mg; max 90 mg) TIO: 0.5 mg/kg monthly (rounded to nearest 10 mg; max 90 mg) TIO: 0.5 mg/kg monthly (rounded to nearest 10 mg; max 90 mg)  Documentation indicating concurrent treatment for the underlying tumor is not planned (i.e., surgical or radiation)  Baseline 4 (i.e., surgical or radiation)  Elevated FGF-23 levels  Documentation indicating concurrent treatment for the underlying tumor is not planned (i.e., surgical or radiation)  To slow the loss of ambulation in symptomatic Batten Disease (late infantile neuronal ceroid lipofuscinosis type 2 or TPP1 deficiency or TPP1 defici			≥ 2 yrs		
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for TIO)  Adult: XLH 1 mg/kg monthly (rounded to nearest 10 mg; max 90 mg) TIO: 0.5 mg/kg monthly initially (Max dose 2 mg/kg or 180mg every 2 wks)  Treatment of chronic graft-versus-host disease after failure of at least two prior lines of systemic therapy  To slow the loss of ambulation in symptomatic Batten Disease (late infantile neuronal ceroid lipofuscinosis type 2 or TPP1 deficiency)  Elapegademase-IvIr (REVCOVI)  Elapegademase-IvIr (REVCOVI)  Elapegademase-IvIr (REVCOVI)  Elapegademase-IvIr (REVCOVI)  Elapegademase-low adenosine deaminase severe combined dimmune deficiency (ADA-SCID)  for pediatric patients)  Adult: XLH 1 mg/kg monthly (rounded to nearest 10 mg; max 90 mg) TIO: 0.5 mg/kg monthly (rounded to nearest 10 mg; max 90 mg) TIO: 0.5 mg/kg monthly initially (Max dose 2 mg/kg or 180mg ergo and ponty or in surpressed as needed. Additional baseline monitoring for TIO only.  Documentation indicating concurrent treatment for the underlying tumor is not planned (i.e., surgical or raciation)  Belumosudil (REZUROCK)  Treatment of chronic graft-versus-host disease after failure of at least two prior lines of systemic therapy  To slow the loss of ambulation in symptomatic Batten Disease (late infantile neuronal ceroid lipofuscinosis type 2 or TPP1 deficiency)  To slow the loss of ambulation in symptomatic Batten Disease (late infantile neuronal ceroid lipofuscinosis type 2 or TPP1 deficiency)  Elapegademase-IvIr (REVCOVI)  Elapegademase-IvIr (REVCOVI)  Elapegademase-IvIr (REVCOVI)  Administration of a loss of ambulation or lack of decline in motor symptoms compared to natural history  Baseline Monitoring  To slow the loss of ambulation or lack of decline in motor symptoms compared to natural history  Baseline Monitoring  To blasse stabilization or lack of decline in motor symptoms compared to natural history  Baseline Monitoring  To blasse stabilization or lack of decline in motor symptoms compared to natural history  Baseline Monitoring  To CEC or platelet count  Ongoing Monitoring  To total bilivation,					
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				total lymphocyte counts
Fosdenopterin (NULIBRY)	To reduce risk of mortality in patients with molybdenum cofactor deficiency (MoCD) Type A	N/A	Dosed once daily; Preterm Neonate (Gestational Age <37 wks) Initial: 0.4mg/kg Month 1: 0.7 mg/kg Month 3: 0.9 mg/kg  Term Neonate (Gestational Age ≥ 37 wks) Initial: 0.55 mg/kg Month 1: 0.75 mg/kg Month 3: 0.9 mg/kg  Age ≥1 yr: 0.9 mg/kg	Initiation of therapy is recommended with known or presumed MoCD Type A. Discontinue therapy if diagnosis is not confirmed with genetic testing.
Givosiran (GIVLAARI)	acute hepatic porphyria	≥ 18 yrs	2.5 mg/kg monthly	Baseline and ongoing monitoring     Liver function tests     Blood homocysteine levels-If homocysteine elevated, assess folate, vitamin B12, and vitamin B6
Leniolisib (JOENJA)	Activated phosphoinositide 3-kinase delta (PI3Kδ) syndrome (APDS)	≥ 12 years  AND ≥ 45kg	70 mg administered orally twice daily approximately 12 hours apart	Baseline and ongoing monitoring     Pregnancy test (if childbearing potential)
Lonafarnib (ZOKINVY)	To reduce risk of mortality in Hutchinson-Gilford Progeria Syndrome  For treatment of processing-deficient Progeroid Laminopathies with either:  Heterozygous LMNA mutation with progerin-like protein accumulation Homozygous or compound heterozygous ZMPSTE24 mutations	≥12 mo AND ≥0.39 m² BSA	Initial 115 mg/m² twice daily     Increase to 150 mg/m² twice daily after 4 months  Round all doses to nearest 25 mg	Baseline and ongoing monitoring     Contraindicated with strong or moderate CYP3A inducers, midazolam, lovastatin, simvastatin, or atorvastatin     Comprehensive metabolic panel     CBC     Ophthalmological evaluation     Blood pressure     Pregnancy test (if childbearing potential)
Lumasiran (OXLUMO)	Treatment of primary hyperoxaluria type 1 to lower urinary and plasma oxalate levels	N/A	<10 kg Loading: 6 mg/kg once/month for 3 doses Maintenance: 3 mg/kg once/month  10 kg to <20 kg	N/A

Luspatercept (REBLOZYL)	Anemia (Hgb <11 g/dL) due to beta thalassemia in patients requiring regular red blood cell transfusions  Anemia (Hgb <11 g/dL) due to myelodysplastic syndromes with ring sideroblasts or myelodysplastic/ myeloproliferative neoplasm with ring sideroblasts and thrombocytosis  Anemia without previous erythropoiesis stimulating agent use (ESA-naïve) in patients with very low- to intermediate-risk myelodysplastic syndromes	≥ 18 yr	Loading: 6 mg/kg once/month for 3 doses  Maintenance: 6 mg/kg once every 3 months  ≥ 20 kg  Loading: 3 mg/kg once/month for 3 doses  Maintenance: 3 mg/kg once every 3 months  All maintenance dosing begins 1 month after last loading dose.  Initial: 1 mg/kg SC  Max dose of 1.25 mg/kg every 3 wks for beta thalassemia  Max dose of 1.75 mg/kg every 3 wks for myelodysplastic syndromes	Baseline Monitoring/Documentation  Number of red blood cell transfusions in the prior 2 months; minimum of 2 RBC units over the prior 8 wks in patients with myelodysplastic syndromes  Trial and failure of an erythropoiesis stimulating agent in patients with myelodysplastic syndromes  Hemoglobin level Blood pressure  Ongoing Monitoring Discontinue if there is not a decrease in transfusion burden after 3 maximal doses (about 9-15 wks) Hemoglobin level Blood pressure
Maralixibat	intermediate-risk myelodysplastic syndromes (MDS) who may require regular red blood cell (RBC) transfusions Cholestatic pruritis in patients	≥ 3 mo	Initial: 190 mcg/kg once daily, 30	Baseline/Ongoing Monitoring
(LIVMARLI)	with Alagille syndrome		min before first meal of day  Goal: 380 mcg/kg once daily after 1 week on initial dose, as tolerated	<ul> <li>Liver function tests (ALT, AST, total bilirubin and direct bilirubin)</li> <li>Fat soluble vitamins (A, D, E, K); INR used as surrogate for Vitamin K</li> </ul>
Mitapivat (PYRUKYND)	Hemolytic anemia in adults with pyruvate kinase (PK) deficiency.	≥ 18 yr	Initial: 5 mg twice daily  Titration: If Hb less than normal range or patient required transfusion in previous 8 weeks,	Baseline/Ongoing Monitoring  Hgb, transfusion requirement

Nedosiran RIVFLOZA	Lower urinary oxalate levels in those with primary hyperoxaluria type 1 (PH1) and relatively preserved renal function, e.g., eGFR ≥ 30 mL/min/1.73 m <sup>2</sup>	≥ 9 yr	then after 4 weeks increase to 20 mg twice daily, and after another 4 weeks increase to 50 mg twice daily.  Max dose: 50 mg twice daily  Discontinuation should include down-titration.  Weight ≥ 50 kg: 160 mg once monthly  Weight <50 kg and age ≥12 yr: 128 mg once monthly  Weight <50 kg and age 9 to 11 yr: 3.3 mg/kg once monthly; max 128 mg.	Baseline/Ongoing Monitoring  • eGFR
Odevixibat (BYLVAY)	Pruritus in patients with progressive familial intrahepatic cholestasis (PFIC)  Limitation of Use: may not be effective in PFIC type 2 in patients with ABCB11 variants resulting in non-functional or complete absence of bile salt export pump protein (BSEP-3)  Cholestatis pruritus in patients with Alagille syndrome (ALGS)	≥ 3 mo ≥ 12 mo	Initial: 40 mcg/kg once daily with morning meal  Titration: After 3 months of initial dose, 40 mcg/kg increments  Max dose: 120 mcg/kg once daily; not to exceed 6 mg	Baseline/Ongoing Monitoring     Liver function tests (ALT, AST, total bilirubin and direct bilirubin)     Fat soluble vitamins (A, D, E, K); INR used as surrogate for Vitamin K
Olipudase alfa-rpcp (XENPOZYME)	Non-central nervous system manifestations of acid sphingomyelinase deficiency (ASMD)	N/A	Initial: Age based dose escalation table per Package insert  Maintenance: 3 mg/kg via IV infusion every 2 weeks  Weight: • If BMI ≤ 30, use actual body weight • If BMI > 30, use adjusted body weight	Baseline Monitoring Liver function tests (ALT, AST) within 1 month Pregnancy test (if childbearing potential)  Ongoing Monitoring Liver function tests (ALT, AST) within 72 hours of infusions during dose escalation, then during routine clinical management once at maintenance dose

			Adjusted body weight (kg) = (actual height in M) <sup>2</sup> x 30	
Palovarotene, (SOHONOS)	Fibrodysplasia ossificans progressive (FOP)	≥ 8 yr females ≥ 10 yr males	≥ 14 years: Daily: 5 mg Flare wk 1-4: 20 mg once daily Flare wk 5-12: 10 mg once daily <14 years weight based: Daily 10-19.9 kg: 2.5 mg 20-39.9 kg: 3 mg 40-59.9 kg: 4 mg ≥ 60 kg: 5 mg  Flare week 1-4 (daily dose) 10-19.9 kg: 10 mg 20-39.9 kg: 15 mg 20-39.9 kg: 15 mg ≥ 60 kg: 20 mg  Flare week 5-12 (daily dose) 10-19.9 kg: 5 mg 20-39.9 kg: 6 mg 40-59.9 kg: 7.5 mg ≥ 60 kg: 10 mg  Week 5-12 flare dosing may be extended in 4-week intervals and continued until symptoms resolve. If marked worsening of original symptoms or another flare occurs during flare-up treatment, may restart 12 week flare-up dosing. (all ages)	Baseline Monitoring Pregnancy test (if childbearing potential) Assessment of skeletal maturity in growing pediatric patients: hand/wrist & knee x-ray, standard growth curves, pubertal staging. Psychiatric symptoms or signs of depression  Ongoing Monitoring Pregnancy test (if childbearing potential) Assessment of skeletal maturity in growing pediatric patients every 6-12 months until skeletal maturity or final adult height. Spine assessment for bone density New or worsening psychiatric symptoms or signs of depression
Plasminogen, human-tvmh (RYPLAZIM)	Treatment of patients with plasminogen deficiency type 1 (hypoplasmino-genemia)	N/A	6.6 mg/kg body weight given IV every 2 to 4 days	Baseline Monitoring     Plasminogen activity level (allow 7 day washout if receiving with fresh frozen plasma)     CBC (bleeding)     Ongoing Monitoring     Trough Plasminogen activity level 72 hours after initial dose and every 12 wks with ongoing therapy     CBC (bleeding)
pozelimab-bbfg (VEOPOZ)	CD55-deficient protein-losing enteropathy (PLE or CHAPLE disease)	≥ 1 yr	Day 1 loading dose: 30 mg/kg single IV infusion	Baseline Monitoring     Meningococcal vaccination at least 2 wk prior to first drug dose unless risks of delayed

			Day 8 and after maintenance dose): 10 mg/kg SC weekly  May increase to 12 mg/kg if inadequate response after at least 3 weekly doses  Max maintenance dose: 800 mg once weekly	therapy outweigh risk of meningococcal infection.  Ongoing Monitoring  Signs of meningococcal infection
Sodium thiosulfate (PEDMARK)	Decrease ototoxicity associated with cisplatin infusions lasting ≤ 6 hours. Not approved for use with longer infusions.	≥ 1 mo to ≤18 yr	< 5 kg: 10 g/m <sup>2</sup> 5-10 kg: 15 g/m <sup>2</sup> >10 kg: 20 g/m <sup>2</sup>	Baseline Monitoring  • Serum potassium and sodium
Sutimlimab-jome (ENJAYMO)	Decrease need for RBC transfusion due to hemolysis in cold agglutinin disease (CAD)	≥ 18 yr	Dosed IV infusion weekly for two weeks, then every two weeks thereafter.  39 to <75 kg: 6500 mg  ≥75 kg: 7500 mg	Vaccination against encapsulated bacteria     (Neisseria meningititides (any serogroup),     Streptococcus pneumonia, and Haemophilus influenza) at least prior to treatment or as soon as possible if urgent therapy needed
Trientine tetrahydrochloride (CUVRIOR)	Stable Wilson's disease who are de-coppered and tolerant to penicillamine	≥ 18 yr	Total daily dose in transition from penicillamine per table in package insert.	Baseline/Ongoing Monitoring     Serum NCC levels at baseline, 3 months, then roughly every 6 months serum levels or 6 to 12 months with urinary copper excretion
Velmanase alfa-tycv (LAMZEDE)	Treatment of non-central nervous system manifestations of alphamannosidosis	N/A	1 mg/kg (actual body weight) once weekly by IV infusion	Baseline and ongoing monitoring     Pregnancy test (if childbearing potential)

Abbreviations: ALP = alkaline phosphatase; ALT = alanine aminotransferase, AST = aspartate aminotransferase; BG = blood glucose; BSA = body surface area; CBC = complete blood count; CrCL = creatinine clearance; ECG = electrocardiogram; eGFR = estimated glomerular filtration rate; ESRD = end stage renal disease; HbA1c = glycalated hemoglobin; Hgb = hemoglobin; INR = international normalized ratio; IV = intravenous; mo = months; NCC = non-ceruloplasmin copper; RBC = red blood cells; SC = subcutaneously; wks = weeks; yrs = years

Approval Criteria	
1. What diagnosis is being treated?	Record ICD10 code.

Approval Criteria						
2. Is the diagnosis funded by OHP?	Yes: Go to #4	No: For current age ≥ 21 years: Pass to RPh. Deny; not funded by the OHP  For current age < 21 years: Go to #3				
3. Is there documentation that the condition is of sufficient severity that it impacts the patient's health (e.g., quality of life, function, growth, development, ability to participate in school, perform activities of daily living, etc)?	Yes: Go to #4	No: Pass to RPh. Deny; medical necessity.				
4. Is the request for a drug FDA-approved for the indication, age, and dose as defined in <b>Table 1</b> ?	<b>Yes</b> : Go to #5	No: Pass to RPh. Deny; medical appropriateness.				
Is the request for continuation of therapy in a patient previously approved by FFS?	Yes: Go to Renewal Criteria	<b>No:</b> Go to #6				
6. Is baseline monitoring recommended for efficacy or safety (e.g., labs, baseline symptoms, etc) AND has the provider submitted documentation of recommended monitoring parameters?	Yes: Go to #7	No: Pass to RPh. Deny; medical appropriateness.				
7. Is this medication therapy being prescribed by, or in consultation with, an appropriate medical specialist?	Yes: Go to #8	No: Pass to RPh. Deny; medical appropriateness.				
8. Have other therapies been tried and failed?	Yes: Approve for up to 3 months (or length of treatment) whichever is less	No: Approve for up to 3 months (or length of treatment) whichever is less				
	Document therapies which have been previously tried	Document provider rationale for use as a first-line therapy				

R	enewal Criteria		
1.	Is there documentation based on chart notes that the patient experienced a significant adverse reaction related to treatment?	Yes: Go to #2	<b>No:</b> Go to #3
2.	Has the adverse event been reported to the FDA Adverse Event Reporting System?	Yes: Go to #3  Document provider attestation	No: Pass to RPh. Deny; medical appropriateness
3.	Is baseline efficacy monitoring available?	Yes: Go to #4	<b>No:</b> Go to #5
4.	Is there objective documentation of improvement from baseline OR for chronic, progressive conditions, is there documentation of disease stabilization or lack of decline compared to the natural disease progression?	Yes: Approve for up to 6 months  Document benefit	No: Pass to RPh. Deny; medical appropriateness
5.	Is there documentation of benefit from the therapy as assessed by the prescribing provider (e.g., improvement in symptoms or quality of life, or for progressive conditions, a lack of decline compared to the natural disease progression)?	Yes: Approve for up to 6 months  Document benefit and provider attestation	No: Pass to RPh. Deny; medical appropriateness

P&T/DUR Review: 2/24; 12/23; 10/23; 6/23; 2/23; 12/22; 6/22; 4/22; 12/21; 10/21; 6/21; 2/21; 8/20; 6/20; 2/20 Implementation: 4/1/24; 1/1/24; 11/1/23; 7/1/23; 4/1/23; 1/1/23; 7/1/22; 5/1/22; 1/1/2022; 7/1/2021; 3/1/21; 11/1/20; 9/1/20; 7/1/20