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Cleveland Clinic  
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### Rozanolixizumab for Generalized Myasthenia Gravis

By: Sharon Halliburton, Pharm.D.

**Background:** Generalized myasthenia gravis (gMG) is a rare, autoimmune disease characterized by immunoglobulin G (IgG) antibody-mediated inhibition of conduction at the neural synapse, impairing neuromuscular function.<sup>1</sup> Patients with gMG are either anti-acetylcholine receptor (AChR) antibody positive and/or anti-muscle-specific tyrosine kinase (MuSK) antibody positive.<sup>2</sup> Major symptoms of gMG include fatigue and severe muscle weakness which may lead to serious complications including myasthenia crisis.<sup>2,3</sup> While conventional treatment options for gMG such as acetylcholinesterase inhibitors (e.g., pyridostigmine), corticosteroids, and non-steroidal immunosuppressants may be somewhat effective, long-term use of these treatments could result in serious adverse effects. Plasma exchange (PLEX) and intravenous immunoglobulin (IVIg) are employed short-term for gMG exacerbations, but lack feasibility for chronic use. Therefore, new targeted therapies focused on reducing the pathogenic IgG circulation were created to treat this often debilitating disease. Efgartigimod alfa (Vyvgart®) intravenous injection and its subcutaneous counterpart, efgartigimod alfa and hyaluronidase (Vyvgart® Hytrulo), approved by the Food and Drug Administration (FDA) in 2021 and 2023, respectively, are targeted therapies indicated for adult patients who are anti-AChR antibody positive.<sup>4,5</sup> Rozanolixizumab-noli (Rystiggo®; UCB,

Inc), approved by the FDA in June 2023, is the first agent indicated for the treating of both anti-AChR and anti-MuSK antibody positive gMG.<sup>6</sup>

**Mechanism of Action:** Rozanolixizumab is a recombinant, humanized IgG4 monoclonal antibody that lowers pathogenic IgG by binding to the neonatal Fc receptor (FcRn), enabling IgG to be degraded by lysosomal breakdown.<sup>6</sup> Lowering circulating serum IgG inhibits the immune response against the neuromuscular synapse, thus improving neuromuscular function.

**Clinical Trials:** MycarinG was a phase 3, double-blind, placebo-controlled trial evaluating the safety and efficacy of rozanolixizumab in gMG.<sup>7</sup> A total of two-hundred patients at least 18 years of age with gMG with AChR or MuSK autoantibodies were enrolled. Participants had a Myasthenia Gravis Activities of Daily Living (MG-ADL) score of at least 3 without ocular symptoms and a minimum Quantitative Myasthenia Gravis (QMG) score of 11. The MG-ADL survey is an 8-item patient-reported outcome measure that assesses symptoms and functional activities of daily living with scores ranging from 0 to 24, while the QMG is a 13-item physician assessment tool that assesses disease severity based on impairments of body function and structures with scores ranging from 0 to 39. Higher scores for these assessment tools corre-

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spond to greater disease severity. Study participants were stratified by gMG autoantibody type and randomized in a 1:1:1 ratio to the following intervention groups for weekly subcutaneous infusions over a 6-week period: rozanolixizumab 7 mg/kg (n=66), rozanolixizumab 10 mg/kg (n=67), or placebo (n=67). The primary efficacy endpoint assessed the change in MG-ADL from baseline to day 43 of therapy. The greatest reduction in MG-ADL occurred within rozanolixizumab treatment groups, with a least-squares mean change of -3.37 in the 7 mg/kg group and -3.40 in the 10 mg/kg group, contrasted to -0.78 in the placebo group. The least squares mean difference from placebo was -2.59 in the rozanolixizumab 7 mg/kg group (95% CI, -4.09 to -1.25,  $p < 0.0001$ ) and -2.62 in the rozanolixizumab 10 mg/kg treatment group (95% CI, -3.99 to -1.16,  $p < 0.0001$ ). Treatment-emergent adverse events (TEAEs) occurred in 83% of the rozanolixizumab 10 mg/kg group, 81% in the rozanolixizumab 7 mg/kg group, and 67% in the placebo group. Headache was the most frequently reported TEAE, followed by diarrhea and pyrexia. Based on the results of this study, the authors concluded that rozanolixizumab represents another potential targeted treatment option for gMG. A pooled analysis of MycarinG and two open-label extension studies, MG0004 and MG0007, assessed the long-term efficacy and safety of rozanolixizumab.<sup>8</sup> Patients enrolled in MG0004 received weekly subcutaneous infusions for up to 52 weeks, while those in MG0007 received additional infusions based on symptom worsening following one dose cycle of six weekly infusions. The pooled findings showed MG-Composite (MGC) scores improved across all rozanolixizumab cycles, noting a median of four treatment cycles were reported for patients requiring rozanolixizumab therapy beyond 1 year. A total of 89.9% of patients who received rozanolixizumab reported at least one TEAE, with most being mild-moderate in severity. The investigators found that rozanolixizumab was generally well-tolerated and efficacious throughout each 6-week infusion cycle.

**Safety:** The most common adverse effects of rozanolixizumab with an incidence of  $\geq 5\%$  included headache, infection, diarrhea, pyrexia, hypersensitivity reactions, nausea, administration site reactions, abdominal pain, and arthralgia.<sup>6</sup> Rozanolixizumab may rarely cause aseptic meningitis. Administration of live or live-attenuated vaccination is not recommended due to a diminished immune response via serum IgG reduction during rozanolixizumab therapy.

**Dosing and Administration:** Rozanolixizumab is administered undiluted via subcutaneous infusion at 20 mL/hour once weekly for 6 weeks.<sup>6</sup> Dosing is weight-based and listed in Table 1.

| Body Weight       | Dose (mg) | Infusion Volume (mL) |
|-------------------|-----------|----------------------|
| < 50 kg           | 420 mg    | 3 mL                 |
| 50 kg to < 100 kg | 560 mg    | 4 mL                 |
| $\geq 100$ kg     | 840 mg    | 6 mL                 |

Any missed doses of rozanolixizumab may be administered up to 4 days after the initially scheduled dose.

**Cost and Availability:** Rozanolixizumab (NDC: 50474-980-79) is available in preservative-free, single-use 280 mg/2 mL vials with an average wholesale price of approximately \$7260 per vial.<sup>6,9</sup> The cost for a patient who weighs 100 kg, requiring a total of 18 vials for a 6-week course of therapy, would be \$130,680. Rozanolixizumab should be stored in the original carton and protected from light until administration.<sup>6</sup> Vials may be stored at room temperature (up to 77°F [25°C]) for up to 30 days, but should not be returned to refrigeration following storage at room temperature.

**Formulary Status:** Rozanolixizumab has been added to the CCHS Formulary restricted to the Department of Neurology for outpatient use only in patients with refractory gMG positive for anti-acetylcholine receptor (AChR) or anti-muscle specific tyrosine kinase (MuSK) antibodies.

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| <b>Additions to the Adult CCHS Formulary</b>  |                                 |  |  |
|---|---------------------------------|--|--|
| <b>Drug</b>   | <b>Pharmacologic Class</b>      | <b>Formulary Use</b>   | <b>Restrictions/Comments</b>   |
| ADAMST13<br>Recombinant-krhn<br>(Adzynma®)<br>Intravenous<br>Injection  | Blood Factor                    | Congenital<br>TTP  | Restricted to the Department<br>of Hematology/Oncology for<br>congenital TTP for outpatient<br>use only  |
| Aminolevulinic<br>Acid<br>Topical<br>Products<br>(Levulan®<br>Kerastick® 20%<br>Topical Solution)<br>(Ameluz® Topical Gel<br>10%) | Photosensitizing<br>Agent       | Actinic Keratosis  | Restricted to the Department<br>of Dermatology for outpatient<br>use only  |
| Clozapine<br>Orally-Disintegrating<br>Tablets<br>(Fazaclo®)   | Antipsychotic                   | Psychiatric<br>Disorders   | Restricted to the Department<br>of Psychiatry for use in pa-<br>tients with a documented<br>suspicion of cheating or oral<br>access issues limiting the use<br>of tablets. Continuation of<br>therapy is not restricted. |
| Melphalan<br>with<br>Hepatic Delivery System<br>(Hepzato Kit™)<br>Intra-arterial<br>Infusion                                      | Chemotherapy<br>Agent           | Uveal Melanoma<br>With Unresectable<br>Hepatic<br>Metastases               | Restricted to the Department<br>of Hematology/Oncology for<br>Main Campus use only   |
| Milrinone<br>Inhalation   | PDE-3<br>Inhibitor              | Severe PAH<br>Complicated CAD Surgery<br>with Right Ventricular<br>Failure | Restricted for use in ICUs and<br>ORs meeting parameters out-<br>lined in the Respiratory Ther-<br>apy Inhaled Milrinone Ad-<br>ministration in the Adult Pa-<br>tient SOP.  |
| Mirikizumab-mrzk<br>(Omvo™)<br>Intravenous<br>Injection   | Monoclonal<br>Antibody          | Ulcerative Colitis   | Restricted to the Department<br>of Gastroenterology for out-<br>patient use only. Note: Miri-<br>kizumab-mrzk subcutaneous<br>injection will remain non-<br>formulary  |
| Nadofaragene<br>firadenovec-vncg<br>(Adstiladrin®)<br>Intravesical<br>Instillation  | Gene<br>Therapy                 | BCG-Resistant<br>Non-Muscle<br>Invasive<br>Bladder Cancer                  | Restricted to the Department<br>of Urology for outpatient use<br>only  |
| Pegfilgrastim-cbqv<br>(Udenyca® On-Body)<br>Subcutaneous<br>Injection   | Colony<br>Stimulating<br>Factor | Prevention of<br>Chemotherapy-Induced<br>Neutopenia                        | Restricted to the Department<br>of Hematology/Oncology for<br>outpatient use only  |
| Rezafungin<br>(Rezzayo®)<br>Intravenous<br>Injection  | Antifungal<br>Agent             | Candidemia<br>and<br>Invasive Candidiasis                                  | Restricted to the Department<br>of Infectious Diseases for out-<br>patient use only  |

TTP=Thrombotic thrombocytopenic purpura PDE-3=Phosphodiesterase-3 PAH=Pulmonary arterial hypertension

CAD=Cardiac assist device ICUs=Intensive care units ORs=Operating rooms SOP=Standard operating procedure BCG=Bacillus calmette-guerin

### Additions to the Adult CCHS Formulary

| Drug   | Pharmacologic Class | Formulary Use            | Restrictions/Comments  |
|--|---------------------|--------------------------|--|
| Sodium Zirconium Cyclosilicate (Lokelma®) Oral Powder for Suspension | Potassium Binder    | Hyperkalemia             | No Restrictions  |
| Toripalimab-tpzi (Loqtorzi®) Intravenous Injection                   | Monoclonal Antibody | Nasopharyngeal Carcinoma | Restricted to the Department of Hemaology/Oncology for outpatient use only |

### Changes to Restrictions of Medications on the Adult CCHS Formulary

| Drug  | Pharmacologic Class               | Formulary Use  | Changes to Restrictions/ Comments  |
|---|-----------------------------------|--|--|
| Anakinra (Kineret®) Subcutaneous/ Intravenous Injection | Interleukin-1 Receptor Antagonist | Refractory HLH   | Modified restrictions to:<br>1) Management of CRS and neurotoxicity in patients receiving CAR-T therapy for inpatient or outpatient use.*<br>2) The Department of Hematology/ Oncology for management of HLH |
| Esketamine (Spravato®) Intranasal Solution              | Antidepressant                    | TRD  | Modified restrictions to include the Department of Psychiatry for the management of TRD in the outpatient setting at Lutheran and Marymount Hospital.  |
| Fosaprepitant (Emend®) Intravenous Injection            | Antiemetic                        | PONV<br>Chemotherapy-Induced NV                                | Modified restrictions to: Restricted to the Department of Anesthesiology for the treatment of PONV   |
| Hypertonic Saline 23.4% Intravenous Injection           | Electrolyte                       | Refractory Intracranial Hypertension<br>Traumatic Brain Injury | Modified restrictions to allow for peripheral administration for emergent use prior to obtaining central line venous catheter access   |
| Ketamine (Ketalar®) Intravenous Injection               | General Anesthetic Analgesic      | Analgesia  | Modified restrictions to include Palliative and Support Care and Chronic Pain Management for non-ICU units meeting the monitoring parameters in the Subanesthetic Ketamine Infusion SOP.                     |
| Lacosamide (Vimpat®) Intravenous Injection              | Anti-Epileptic Agent              | Seizures<br>Trigeminal Neuralgia                               | Modified restrictions to include the Departments of Neurology and Neurosurgery for trigeminal neuralgia  |
| Ziprasidone (Geodon®) Intramuscular Injection           | Antipsychotic Agent               | Psychiatric Disorders  | All restrictions were removed to allow ordering by any provider specialty  |

\*May be ordered by Emergency Medicine Staff Physicians, Hematology/Oncology Staff Physicians, Intensivists, Hematology/Oncology or ICU Fellows, Advanced Practice Practitioners, or Hospitalists in consultation with a Hematology/Oncology Staff Physician.

HLH=Hemophagocytic lymphohistiocytosis CRS=Cytokine release syndrome CAR-T=Chimeric antigen receptor-T TRD=Treatment-resistant depression  
PONV=Postoperative nausea and vomiting NV=Nausea and vomiting ICU=Intensive care unit SOP=Standard Operating Procedure

| <b>Product Standardizations to the Adult CCHS Formulary</b> |  |  |  |
|---|--|--|--|
| <b>Drug</b>   | <b>Pharmacologic Class</b>             | <b>Formulary Use</b>                           | <b>Details</b>   |
| Angiotensin-Converting Enzyme Inhibitors                    | Antihypertensive                       | Hypertension<br>CHF                            | A therapeutic interchange has been created for ACE-Is. Details are in Lexicomp.  |
| Leuprolide Injection (Eligard®) (Lupron® Depot)             | Gonadotropin-Releasing Hormone Agonist | Prostate Cancer                                | Pharmacists will be able to interchange Eligard® for Lupron® Depot for the indication of advanced prostate cancer based on the patient's insurance.  |
| Levonorgestrel Intrauterine Device Standardization          | Progestin                              | Abnormal Uterine Bleeding<br><br>Contraceptive | Inpatient use of Liletta® is restricted to the immediate postpartum period. If restriction criteria are not met, then use is restricted to outpatient use only.<br><br>Liletta® is available outpatient for patients needing to pay out-of-pocket.<br><br>Mirena®, Kyleena®, and Skyla® are restricted to outpatient use only.   |
| Sulfonylureas   | Antidiabetic Agents                    | Type II Diabetes                               | The following modifications were made to the current sulfonylurea therapeutic interchange:<br><ol style="list-style-type: none"> <li>1. Discontinued sulfonylurea agents were removed (chlorpropamide, tolazamide, tolbutamide).</li> <li>2. Glipizide ER will be interchanged with Glipizide IR</li> <li>3. Glimepiride will not be included in the interchange</li> </ol> Details are in Lexicomp. |

CHF=Congestive heart failure ACE-Is= Angiotensin converting enzyme-inhibitors ER=Extended-release IR=Immediate-release



## Process Changes to the Adult CCHS Formulary

| Process   | Pharmacologic Class      | Formulary Use                   | Details   |
|---|--------------------------|---------------------------------|---|
| Adult (18+) Infectious Diseases Sexually Transmitted Infections Prophylaxis and Treatment Standard Operating Procedure for Pharmacist Consult Agreements* | Anti-infectives          | Sexually Transmitted Infections | Various updates to this SOP were approved.  |
| Aminoglycoside Dosing Service Standard Operating Procedure  | Aminoglycosides          | Various Infections              | Establishment of this dosing service for adult patients was approved.   |
| Guideline for Dosing of Anti-Malarial Agents  | Anti-Malarial Agents     | Malaria                         | Guideline for dosing anti-malarial agents was added to the CCHS Antimicrobial Use Guidelines for adult dosing and was excluded from the Medication Dose Optimization Service.   |
| Guideline for Dosing Mycobacterial Infections   | Antimycobacterial Agents | Mycobacterial Infections        | An antimycobacterial dosing table was added to the CCHS Antimicrobial Use Guidelines for adult dosing and included in the Medication Dose Optimization Service.   |
| Hypertonic Sodium Chloride Guideline Update   | Electrolyte              | Hyponatremia                    | The guideline includes details about safe peripheral administration of 23.4% hypertonic sodium chloride.  |
| Infliximab (Renflexis®)   | TNF Inhibitor            | Various Indications             | Infliximab doses $\geq 300$ mg will be automatically rounded by Pharmacy to the nearest 100 mg vial size. Doses less than 300 mg will not be automatically rounded.<br>1. Doses $\leq 50$ mg will be rounded down to the nearest 100 mg (e.g., 750 mg = 700 mg)<br>2. Doses $> 50$ mg will be rounded up to the nearest 100 mg (e.g., 351 mg = 400 mg)**+ |

\*Formerly known as Infectious Diseases Sexually Transmitted Infections Prophylaxis and Treatment Services Standard Operating Procedure

\*\*This includes all infliximab doses for adult patients, both inpatient and outpatient, and for all indications (both oncology and non-oncology).

+Dose rounding is automated within the electronic order entry system without prior authorization of the ordering physician.

SOP=Standard Operating Procedure TNF=Tumor necrosis factor

| <b>Process Changes to the Adult CCHS Formulary</b>                                  |                                |  |   |
|---|--------------------------------|--|---|
| <b>Process</b>  | <b>Pharmacologic Class</b>     | <b>Formulary Use</b>   | <b>Details</b>  |
| Sugammadex<br>(Bridion®)  | Selective<br>Relaxant<br>Agent | Reversal of rocuronium-<br>or vecuronium-induced<br>blockade | Dose rounding will<br>be allowed up to<br>the nearest 50 mg<br>1. Dose 301 mg<br>rounded<br>to 350 mg |
| Travel Medicine Standard<br>Operating Procedure for<br>Pharmacist Consult Agreement | Various Medications            | Various Indications  | Updates to SOP<br>were approved.  |

SOP=Standard operating procedure

| <b>Removals from the Adult CCHS Formulary</b>        |                            |  |   |
|--|----------------------------|--|---|
| <b>Drug</b>  | <b>Pharmacologic Class</b> | <b>Formulary Use</b>                       | <b>Details</b>  |
| Conivaptan<br>(Vaprisol®)                            | Vasopressin<br>Antagonist  | Hyponatremia                               | Medication was removed due<br>to shortages and price increase.<br>Tolvaptan can be considered as<br>an alternative. |
| Copanlisib<br>(Aliqopa™)<br>Intravenous<br>Injection | Antineoplastic<br>Agent    | Relapsed/Refractory<br>Follicular Lymphoma | The drug was pulled from the<br>market due to toxicities and<br>therefore, removed from the<br>CCHS Formulary.      |
| Diazepam<br>Rectal Gel                               | Antiepileptic              | Seizures                                   | Removed due to low usage  |

| <b>Removals from the Pediatric CCHS Formulary</b> |                            |                      |                                       |
|---|----------------------------|----------------------|---------------------------------------|
| <b>Drug</b>                                       | <b>Pharmacologic Class</b> | <b>Formulary Use</b> | <b>Details</b>                        |
| Diazepam<br>Rectal Gel                            | Antiepileptic              | Seizures             | Removed due to low usage              |
| Phenylephrine<br>0.125%<br>Nasal Drops            | Decongestant               | Nasal Congestion     | Manufacturers discontinued<br>product |

| <b>Additions to the Pediatric CCHS Formulary</b>             |                            |  |  |
|--|----------------------------|--|--|
| <b>Drug</b>  | <b>Pharmacologic Class</b> | <b>Formulary Use</b>                                     | <b>Restrictions/Comments</b>   |
| Exagamglogene Autotemcel (Casgey™) Intravenous Injection     | Gene Therapy               | Beta-thalassemia<br>Sickle Cell Disease                  | Restricted to Staff Physicians from the Department of Pediatric Bone Marrow Transplant and only after prior authorization or covered approval has been obtained from the patient's insurance company in conjunction with the manufacturer. |
| Lovotibeglogene Autotemcel (Lyfgenia™) Intravenous Injection | Gene Therapy               | Sickle Cell Disease                                      | Restricted to Staff Physicians from the Department of Pediatric Bone Marrow Transplant and only after prior authorization or covered approval has been obtained from the patient's insurance company in conjunction with the manufacturer. |
| Mirikizumab-mrkz (OmvoH™) Intravenous Injection              | Monoclonal Antibody        | Ulcerative Colitis                                       | Restricted to the Department of Pediatric Gastroenterology for outpatient use only. Note: Mirikizumab-mrkz subcutaneous injection will remain non-formulary  |
| Phenylephrine 0.25% Nasal Spray                              | Decongestant               | Nasal Congestion   | Phenylephrine 0.25% nasal spray will only be allowable for pediatric patients aged ≥ 35 weeks actual or corrected to < 6 years of age.   |
| Rezafungin (Rezzayo®) Intravenous Injection                  | Antifungal Agent           | Candidemia and Invasive Candidiasis                      | Restricted to the Department of Pediatric Infectious Diseases for outpatient use only  |
| Trabectedin (Yondelis®) Intravenous Injection                | Antineoplastic Agent       | Unresectable or Metastatic Liposarcoma or Leiomyosarcoma | Restricted to the Department of Pediatric Hematology/Oncology  |

| <b>Product Standardizations to the Pediatric CCHS Formulary</b> |                            |                      |   |
|---|----------------------------|----------------------|---|
| <b>Drug</b>   | <b>Pharmacologic Class</b> | <b>Formulary Use</b> | <b>Details</b>  |
| Nasal Decongestant Spray Therapeutic Interchange                | Decongestants              | Nasal Congestion     | Due to the discontinuation of phenylephrine 0.125% nasal drops, the existing nasal decongestant spray automatic interchange was updated. Details are in Lexicomp. |



## Changes to Restrictions of the Pediatric CCHS Formulary

| Drug   | Pharmacologic Class | Formulary Use  | Changes  |
|--|---------------------|--|--|
| Bevacizumab (Avastin®)<br>Intravenous Injection  | Monoclonal Antibody | Recurrent/Refractory Primary CNS Tumor<br>Refractory Solid Tumor | Modified restrictions to include the Department of Pediatric Hematology/Oncology for outpatient use only   |
| Epoprostenol (Veletri®)<br>Intravenous Injection | Prostaglandin       | Anticoagulant  | Modified restrictions to include use as an anticoagulant during CRRT restricted to Staff Physicians from Pediatric Nephrology or Staff Physicians from the Pediatric ICU |
| Epoprostenol (Veletri®)<br>Injection             | Prostaglandin       | PAH  | Modified restrictions when used for PAH to include the Pediatric Pulmonary Hypertension Nurse Practitioner*  |
| Iloprost (Ventavis®)<br>Inhalation               | Prostaglandin       | PAH  | Modified restrictions to include the Pediatric Pulmonary Hypertension Nurse Practitioner*  |

\*Nurse practitioner will be permitted to order for initiation and continuation, including dose titrations.

CNS=Central nervous system CRRT=Continuous renal replacement therapy ICU=Intensive care unit PAH=Pulmonary arterial hypertension

## Process Changes to the Pediatric CCHS Formulary

| Process  | Pharmacologic Class | Formulary Use      | Details   |
|--|---------------------|--------------------|---|
| Aminoglycoside Dosing Service Standard Operating Procedure | Aminoglycosides     | Various Infections | Establishment of this dosing service for pediatric patients was approved.   |
| Infliximab (Remicade®)                                     | Monoclonal Antibody | UC<br>CD           | All doses of infliximab ordered in mg/kg DOWN by no more than 10% may be rounded to the nearest vial size. Doses exceeding the 10% margin or entered as flat doses will NOT be rounded.*+<br>Example: A dose for 330 mg will automatically be rounded down to 300 mg. A dose for 331 mg will not be automatically rounded up or down.<br><b>Please note: The pediatric dose rounding scheme is different from the adult dose rounding scheme.</b> |

\*This includes all infliximab doses for pediatric patients, both inpatient and outpatient for all indications (both oncology and non-oncology).

+Dose rounding is automated within the electronic order entry system without prior authorization of the ordering physician.

UC=Ulcerative colitis CD=Crohn's disease