SGM Therapy and Drug Overview

ACROMEGALY
Acromegaly is a hormonal disorder in which there is excessive growth hormone and the body tissues gradually enlarge possibly resulting in severe disfigurement, serious complicating conditions and premature death if untreated. There are no treatments to prevent the condition, but these medications may prevent complications.
Sandostatin Somavert Somatuline Depot

ALCOHOL DEPENDENCY
Alcohol dependence can have severe impacts on both physical and mental health. Vivitrol is an injectable medicine used to treat alcohol dependence.
Vivitrol

ALLERGIC ASTHMA
Asthma is a chronic disorder characterized by reversible airway obstruction and airway inflammation that is often triggered by environmental exposure to allergens. Patients with allergic asthma often have specific immunoglobulin E (IgE) antibodies to allergens. Xolair inhibits the binding of IgE to mast cells decreasing the body’s reaction to the allergic stimuli.
Xolair

ALPHA1-ANTITRYPsin (AAT) DEFICIENCY
AAT deficiency is a hereditary disorder that can cause lung and liver disease. AAT is a serum protein normally found in the lungs and helps to protect the lungs from diseases such as emphysema and chronic obstructive pulmonary disease (COPD). These protein replacement products are used to treat AAT deficiency.
Aralast Prolastin/Prolastin-C Glassia Zemaira

ANEMIA
Anemia is a decrease in number of red blood cells (RBCs) or a decrease in the amount of hemoglobin. These medications stimulate RBC production to correct anemia.
Aranesp Omontys Epogen Procrit

BOTULINUM TOXINS
Botulinum toxin is used to treat muscle spasms that affect muscles that control movement such as in the eye or neck. The toxin works by weakening or paralyzing affecting muscles or by blocking affecting nerves.
Botox Myobloc Dysport Xeomin

CARDIAC DISORDERS
Samsca is indicated for the treatment of hyponatremia. Hyponatremia is an electrolyte abnormality in which the sodium level in the serum is lower than normal. Normal sodium levels are vital to cell function. Tikosyn is used to treat arrhythmias and maintain normal heart rhythm.
Samsca Tikosyn

COAGULATION DISORDERS
Abnormal bleeding can result from rare genetic disorders of the coagulation system. Disorders of coagulation can lead to an increased risk of bleeding or thrombosis (clotting). Ceprotin is used in patients with congenital protein C deficiency for the prevention and treatment of venous thrombosis. RiaSTAP is used in patients with congenital fibrinogen deficiency for the treatment of acute bleeding episodes.
Ceprotin RiaSTAP

CRYOPYRIN-ASSOCIATED PERIODIC SYNDROMES (CAPS)
CAPS are comprised of three rare genetic autoinflammatory: Familial cold
autoinflammatory syndrome (FCAS), Muckle-wells syndrome (MWS), and Neonatal-onset multisystem inflammatory disease/chronic infantile neurologic cutaneous and articular syndrome (NOMID/CINCA). These syndromes are associated with an increased release of the cytokine interleukin, which causes the inflammation. There is no cure for CAPS, but these interleukin-1 inhibitors help reduce inflammation.

**ArcaLyxt**
**Kinertil**
**Ilaris**

**CYSTIC FIBROSIS (CF)**
CF is an inherited disease of secretory glands, including the glands that make mucus and sweats. CF causes mucus to be thick and sticky. Treatment can help relieve symptoms and prevent complications. Because majority of patients die from respiratory failure, these medications help preserve lung function.

**Cayston**
**Pulmozyme**
**Kalydeco**
**TOBI**

**DUPUYTREN’S CONTRACTURE**
Dupuytren’s contracture is a hand deformity affecting the connective tissue under the skin of the palm. The thickening and tightening of tissue can cause the fingers to curl (flex). Xiaflex works by breaking down the excessive buildup of collagen in hand.

**Xiaflex**

**ELECTROLYTE DISORDER**
Samsca helps to correct clinically significant low sodium levels due to conditions such as heart failure, liver disease, and certain hormone imbalances.

**Samsca**

**GOUT**
Gout is a condition caused by high uric acid levels resulting in painful, swollen, and tender joints that can lead to bone damage. Krystexxa is used for refractory chronic gout that cannot be controlled by standard gout medications.

**Krystexxa**

**GROWTH HORMONE (GH) AND ENDOCRINE-METABOLIC DISORDERS**
GH is secreted by the pituitary gland and promotes growth and regulates metabolism. GH deficiency can be caused by congenital or acquired conditions. These GH products replace the protein the patient cannot produce on their own. Increlex replaces insulin-like growth factor that the body cannot produce on its own. Candidates forIncrelex therapy have many of the same symptoms as patients that have GH deficiency (e.g., short stature, difficulty regulating metabolism).

**Genotropin**
**Omnitrope**
**Humatrope**
**Saizen**
**Increlex**
**Serostim**
**Norditropin**
**Tev-Tropin**
**Nutropin/AQ**
**Zorbtive**

**HEMATOPOIETICS**
Mozobil is used in combination with granulocytecolony-stimulating factor in patients with non-Hodgkin’s lymphoma and multiple myeloma who are undergoing bone marrow transplants. Neumega is used for the prevention of severe thrombocytopenia (low platelet count) following chemotherapy in adult patients with nonmyeloid malignancies.

**Mozobil**
**Neumega**

**HEMOPHILIA AND RELATED BLEEDING DISORDERS**
Hemophilia and von Willebrand disease (vWD) are inherited bleeding disorders. Hemophilia is caused by a deficiency of coagulation factor VIII (hemophilia A) or factor IX (hemophilia B). vWD is the most common inherited bleeding disorder and occurs when there is a defect in the quantity or quality of von Willebrand factor. These products replace the missing clotting factors to help prevent or treat spontaneous
and traumatic bleeds and to recover from surgery.

Advate  
Kogenate FS
Alphanate  
Monarc-M
AlphaNine SD  
Monoclate-P
Bebulin VH  
Mononine
BeneFix  
NovoSeven
Corifact  
Proplex T
Desmopressin injection (DDAVP Injection)  
ReFacto
Feiba VH  
Stimate Nasal
Helixate FS  
Spray
Hemofil M  
Wilate
Humate-P  
Xyntha
Koate-DVI

HEPATITIS C

Hepatitis C is an infectious disease that causes inflammation of the liver. If left untreated, chronic infection may lead to liver damage or cirrhosis, liver cancer, or liver failure requiring a liver transplant. These medications are used to treat chronic hepatitis C infection. Ribavirin is used in combination with interferon therapy.

Infergen  
Ribavirin
Incivek (Copegus, Rebetol, Intron-A Ribaphere)
Pegasys  
Victrelis
Peg-Intron

HEREDITARY ANGIOEDEMA (HAE)

HAE is a rare but serious disorder of the immune system that causes swelling, particularly of the face and airways, and abdominal cramping. While there is no cure for HAE, treatment may include preventing or treating HAE attacks.

Berinert  
Firazyr
Cinryze  
Kalbitor

HUMAN IMMUNODEFICIENCY VIRUS (HIV)

HIV is the virus that causes acquired immune deficiency syndrome (AIDS). HIV attacks the immune system by destroying CD4 positive (CD4+) T cells, a type of white blood cell that is vital to fighting off infection. Fuzeon helps manage HIV by blocking the ability of HIV to enter and infect healthy CD4 cells. Egrifta is used to reduce the excess abdominal fat in HIV-infected patients with lipodystrophy.

Egrifta  
Fuzeon

HORMONAL THERAPIES

Hormonal therapies are used to treat cancer and other medical conditions. Lupron is also used for infertility and central precocious puberty (CPP).

Eligard  
Supprelin LA
Firmagon  
Trelstar
leuprolide acetate  
Vantas
Lupron Depot  
Zoladex

IMMUNE (IDIOPATHIC)

THROMBOCYTOPENIC PURPURA (ITP)

ITP is a condition in which there are too few platelets in the blood which may increase the risk for serious and potentially life-threatening bleeding. Nplate and Promacta act to increase platelet production and reduce the risk for serious bleeds.

Nplate  
Promacta

IMMUNE THERAPIES

These medications replace immune globulin, a protein critical in fighting infection and providing immunity.

Carimune NF  
Hizentra
Cytogam  
Octagam
Flebogamma  
Privigen
GamaSTAN S/D  
Rho(D) immune
Gammagard  
globulin
Gammmaplex (RhoGAM, Gamunex  
HyperRho,
hepatitis B immune globulin  
Rhophylac, (HepaGam B,
HyperHep B S/D, WinRho)
Nabi-HB)

INFECTIOUS DISEASE

Actimmune is used to treat chronic granulomatous disease, an inherited disorder in which immune system cells do not function properly and make a person vulnerable to various infectious diseases. Actimmune is also used to treat a rare
inherited bone disorder called osteopetrosis. Alferon-N is a type of interferon medication used to treat warts caused by the human papillomavirus (HPV).

**INFERTILITY**

Infertility means unable to become pregnant after a year of trying or unable to sustain a pregnancy. These medications are often used in combination as part of assisted reproductive technology (ART) treatments to achieve pregnancy.

<table>
<thead>
<tr>
<th>Brand Name</th>
<th>Generic Name</th>
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<tbody>
<tr>
<td>Bravelle</td>
<td>Follistim AQ</td>
</tr>
<tr>
<td>Cetrotide</td>
<td>Ganirelix acetate</td>
</tr>
<tr>
<td>Chorionic</td>
<td>Gonal-F</td>
</tr>
<tr>
<td>gonadotropin</td>
<td>Leuprolide acetate</td>
</tr>
<tr>
<td>(Novarel, Ovidrel, Pregnyl)</td>
<td>Luveris, Menopur, Repronex</td>
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**INFLAMMATORY BOWEL DISEASE (IBD)**

IBD covers a group of disorders in which the intestines or bowels become inflamed. IBD may be triggered by abnormal action of the immune system. These medications treat Crohn’s disease and ulcerative colitis, two forms of IBD. They help reduce inflammation, relieve symptoms and prevent flare-ups of IBD.

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<tr>
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<tbody>
<tr>
<td>Cimzia</td>
<td>Remicade</td>
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<tr>
<td>Humira</td>
<td>Tysabri</td>
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**IRON OVERLOAD**

Iron overload is caused by a build-up of iron in the body due to genetic disease or repeated blood transfusion.

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<tr>
<th>Brand Name</th>
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<tbody>
<tr>
<td>Deferoxamine</td>
<td>Exjade (Desferal)</td>
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<td></td>
<td>Ferriprox</td>
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**LYSOSOMAL STORAGE DISORDERS (LSD)**

LSDs are inherited genetic disorders caused by a lack of enzymes that normally eliminate unwanted substances in the cells. Over time, this can lead to damage to the body’s systems and organs. These medications treat LSDs by replacing the missing enzyme.

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<th>Brand Name</th>
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<tbody>
<tr>
<td>Adagen</td>
<td>Lumizyme</td>
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**MOVEMENT DISORDERS**

Movement disorders describe many neurological conditions that cause involuntary excessive movements or slow, awkward, deliberate movements. Apokyn is used to treat “off” episodes (times of difficulty moving, walking and speaking that may happen as medication wears off or at random) in patients with Parkinson’s disease. Xenazine is used to treat chorea (involuntary spasms or jerky movements) associated with Huntington’s disease.

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<tbody>
<tr>
<td>Apokyn</td>
<td>Xenazine</td>
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**MULTIPLE SCLEROSIS (MS)**

MS is a neurological disease affecting the brain and spinal cord leading to a broad spectrum of signs and symptoms. Many of these medications are used to prevent disease progression of MS. Ampyra is used to improve walking in patients with MS.

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<th>Brand Name</th>
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<tbody>
<tr>
<td>Ampyra</td>
<td>Gilenya</td>
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<tr>
<td>Avonex</td>
<td>Novantrone</td>
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<tr>
<td>Betaseron</td>
<td>Rebif</td>
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<tr>
<td>Copaxone</td>
<td>Tysabri</td>
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<tr>
<td>Extavia</td>
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**NEUTROPENIA**

Neutropenia is an abnormally low count of neutrophils, the white blood cells that protect your body from infection. These medications stimulate the bone marrow to produce more white blood cells.

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<tr>
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<tbody>
<tr>
<td>Leukine</td>
<td>Neupogen</td>
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<tr>
<td>Neulasta</td>
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**ONCOLOGY**

These medications are used to treat various cancer conditions. Each agent has specific tumor types that it treats.

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<tr>
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<tbody>
<tr>
<td>Adcetris</td>
<td>Proleukin</td>
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OA is a common form of arthritis that causes pain, swelling and reduced motion in the joints. In knees with osteoarthritis, the joint fluid can break down and not provide the cushioning the knee needs. These medications replace damaged joint fluid of the knee to help reduce pain and improve joint function.

Euflexxa
Hyalgan
Orthovisc

OSTEOPOROSIS
Osteoporosis is a disease in which the bone becomes porous and frail and increases a person’s risk for fractures. These medications are typically used in patients that have failed or cannot tolerate oral osteoporosis therapies.

Forteo
Reclast

Prolia

PAIN MANAGEMENT
Pain management is the process in which individuals cope with acute and chronic pain. Prialt is given by intrathecal injection (injection into the spinal fluid). It is indicated for the management of severe chronic pain in patients who cannot take or do not respond to other pain therapies.

Prialt

PAROXYSMAL NOCTURNAL HEMOGLOBINURIA (PNH)
PNH is a rare acquired disorder that leads to the premature death and impaired production of blood cells. Soliris treats the premature destruction of red blood cells known as hemolysis.

Soliris

PHENYLKETONURIA (PKU)
PKU is a rare genetic disorder that results from an impaired ability to metabolize phenylalanine (Phe) leading to elevated blood Phe levels. Phe is an essential amino acid found in foods containing protein. Left untreated, high blood Phe levels from PKU can affect the brain, impair thinking, and cause behavioral problems. Kuvan helps the body break down Phe to help keep blood Phe levels low.

Kuvan

PRE-TERM BIRTH
Makena is used to reduce the risk of pre-term birth in women who have a history of delivering a baby too early.

Makena

PSORIASIS
Psoriasis is a chronic, autoimmune skin disease that causes itchy or sore patches of thick, red skin with silvery scales known as plaques. Severe cases can be painful, disfiguring and disabling. These medications are typically used for patients
who have failed conventional oral or topical therapies.

Enbrel Remicade
Humira Stelara

**PULMONARY ARTERIAL HYPERTENSION (PAH)**
PAH is a condition that causes high blood pressure in the lungs putting a strain on the heart. There is no cure for PAH, but these medications help treat symptoms of the disease.
Adcirca Revatio
Epoprostenol Tracleer
(Flolan) Tyvaso
Letairis Veletri
Remodulin Ventavis

**RENAI ORDEROS**

Exjade helps rid the body of excess iron as a result of frequent blood transfusions. Sensipar helps regulate calcium levels and is used to treat secondary hyperparathyroidism in patients with chronic kidney disease. Sensipar is also used to treat high blood calcium levels in patients with parathyroid carcinoma.
Exjade Sensipar

**RESPIRATORY SYNCYTIAL VIRUS (RSV)**
RSV is a virus that may cause severe cold-like symptoms in infected patients. Patients at high risk for complications from RSV infection include infants born prematurely and those born with lung or heart disease. Synagis is used to prevent RSV infection in high risk infants.
Synagis

**RHEUMATOID ARTHRITIS (RA)**
RA is an autoimmune disease that causes pain, swelling and stiffness in joints. If untreated, this swelling may lead to joint deformity and disability. These medications are disease-modifying agents that act on the immune system to slow the progression of RA.
Actemra Orenzia
Cimzia Remicade
Enbrel Rituxan
Humira Simponi
Kineret

**SEIZURE DISORDERS**

Infantile spasms (IS) and complex partial seizures (CPS) are two types of seizure disorders that are often difficult to treat. If uncontrolled, seizure disorders can cause severe problems such as injury to the body or brain, decreased quality of life, and intellectual decline in children. These medications are treatment options for patients with seizure disorders.
Acthar Sabril

**SYSTEMIC LUPUS ERYTHMATOSUS**
Lupus is an autoimmune disease that affects the skin, joints, brain, and other organs. Benlysta is used to treat active lupus in patients who are receiving other lupus medications.

Benlysta

**UREA CYCLE DISORDERS**
Carbaglu is a drug used to treat high blood ammonia levels due to NAGS deficiency.
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