

## 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.

Arcalyst                      Kineret  
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 for Increlex 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/ Nutropin AQ	Zorbtive

### **HEMATOPOIETICS**

Mozobil is used in combination with granulocyte colony-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	Monoclote-P
Bebulin VH	Mononine
BeneFix	NovoSeven
Corifact	Proplex T
Desmopressin injection (DDAVP Injection)	Profilnine SD Recombinate
Feiba VH	ReFacto
Helixate FS	Stimate Nasal 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	Ribasphere)
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
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## 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
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## 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 globulin
Gammagard	(RhoGAM,
Gammaplex	HyperRho,
Gamunex	Rhophylac,
hepatitis B immune globulin (HepaGam B,	WinRho)
HyperHep B S/D,	Vivaglobulin
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).

Actimmune                      Alferon-N

## 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.

Bravelle	Follistim AQ
Cetrotide	ganirelix acetate
Chorionic gonadotropin (Novarel, Ovidrel, Pregnyl)	Gonal-F leuprolide acetate Luveris Menopur Repronex

## 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.

Cimzia	Remicade
Humira	Tysabri

## IRON OVERLOAD

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

deferoxamine (Desferal)	Exjade Ferriprox
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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.

Adagen	Lumizyme
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Aldurazyme  
Cerezyme  
Cystagon  
Elaprase  
Elelyso  
Fabrazyme

Myozyme  
Naglazyme  
Orfadin  
VPRIV  
Zavesca

## 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.

Apokyn	Xenazine
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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.

Ampyra	Gilenya
Avonex	Novantrone
Betaseron	Rebif
Copaxone	Tysabri
Extavia	

## 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.

Leukine	Neupogen
Neulasta	

## ONCOLOGY

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

Adcetris	Proleukin
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Afinitor	Revlimid
Arzerra	Rituxan
Avastin	Sprycel
Caprelsa	Sutent
Dacogen	Sylatron
Elspar	Tarceva
Erbitux	Targretin
Erivedge	Tasigna
Erwinaze	Temodar
Folotyn	Thalomid
Fusilev	Thyrogen
Gleevec	Torisel
Halaven	Treanda
Herceptin	Tykerb
Hycamtin	Valstar
Capsules	Vectibix
Inlyta	Velcade
Intron-A	Vidaza
Iressa	Votrient
Istodax	Xalkori
Ixempra	Xeloda
Jakafi	Xgeva
Jevtana	Yervoy
Nexavar	Zelboraf
Novantrone	Zolinza
Oncaspar	Zometa
Perjeta	Zytiga

## OSTEOARTHRITIS (OA)

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	Supartz
Hyalgan	Synvisc/Synvisc
Orthovisc	One

## 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
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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





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