



# Immune Globulin (Human) Reference Chart

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Product Name	Flebogamma® 10% DIF	GAMMAGARD® S/D IgA < 1 µg/mL	GAMMAPLEX® 5%	GAMMAPLEX® 10%	Octagam® 5%	Octagam® 10%	PANZYGA®	Privigen®	GAMMAGARD LIQUID®	GAMMAKED™	GAMUNEX-C®	CUTAQUIG®	CUVITRU® <sup>7</sup>	Hizentra®	HYQVIA®	GamaSTAN® S/D
Manufacturer/Supplier	Grifols	Takeda	Bio Products Laboratory		Octapharma		Octapharma, distributed by Pfizer	CSL Behring	Takeda	Kedrion Biopharma	Grifols	Octapharma	Takeda	CSL Behring	Takeda	Grifols
Contact Number	(888) 474-3657	(800) 423-2862	(866) 398-0825		(888) 429-4535		(888) 429-4535	(800) 504-5434	(800) 423-2862	(855) 353-7466	(888) 474-3657	(888) 429-4535	(800) 423-2862	(800) 504-5434	(800) 423-2862	(888) 474-3657
Sizes	5 g, 10 g, 20 g	5 g, 10 g	5 g, 10 g, 20 g		1 g, 2.5 g, 5 g, 10 g	2 g, 5 g, 10 g, 20 g	2.5 g, 5 g, 10 g, 20 g, 30 g	5 g, 10 g, 20 g, 40 g	1 g, 2.5 g, 5 g, 10 g, 20 g, 30 g	5 g, 10 g, 20 g	1 g, 2.5 g, 5 g, 10 g, 20 g, 40 g	1 g (6 mL), 1.65 g (10 mL), 2 g (12 mL), 3.3 g (20 mL), 4 g (24 mL), 8 g (48 mL)	1 g (5 mL), 2 g (10 mL), 4 g (20 mL), 8 g (40 mL)	1 g (5 mL), 2 g (10 mL), 4 g (20 mL), 10 g (50 mL)	2.5 g (25 mL), 5 g (50 mL), 10 g (100 mL), 20 g (200 mL), 30 g (300 mL) <sup>10</sup>	2 mL, 10 mL
Storage	2° to 25°C (36° to 77°F). Do not freeze.	Not to exceed 25°C (77°F). Do not freeze. Do not shake.	2° to 25°C (35.6° to 77°F). Do not freeze. Do not shake.		2° to 25°C (36°F to 77°F). Do not freeze.	2° to 8°C (36°F to 46°F). Within first 6 months, may be stored at 25°C (≤ 77°F).	2° to 8°C (36° to 46°F) for up to 24 months. Up to 25°C (77°F) for up to 9 months. After storage at 25°C (77°F), either use immediately or discard the product. Do not freeze. Do not shake.	Room temperature up to 25°C (77°F) to expiration date on label. <sup>1</sup> Do not freeze. Do not shake. Keep in original carton to protect from light.	2° to 8°C (36° to 46°F) for up to 36 months. Up to 25°C (77°F) for up to 24 months. <sup>4</sup> Do not freeze. Do not shake.	2° to 8°C (36° to 46°F) AND at temperatures not to exceed 25°C (77°F) for up to 6 months. <sup>7</sup> Do not freeze. Do not shake.	2° to 8°C (36° to 46°F) AND at temperatures not to exceed 25°C (77°F) for up to 6 months. <sup>7</sup> Do not freeze. Do not shake.	2° to 8°C (36°F to 46°F) for up to 24 months. Up to 25°C (77°F) for up to 6 months without return to refrigeration. After storage at 25°C (77°F), discard if not used. Do not freeze. Do not shake solution.	2°C to 8°C (36°F to 46°F) for up to 36 months, or room temperature (not to exceed 25°C (77°F)) for up to 12 months. Do not freeze. Do not shake.	Room temperature up to 25°C (77°F). Do not freeze. Do not shake.	2°C to 8°C (36°F to 46°F). Within first 3 months, may be stored at up to 25°C (77°F) during first 24 months from date of manufacturing. Do not freeze. Do not shake.	2° to 8°C (36° to 46°F). Do not freeze.
Form	Liquid	Lyophilized	Liquid		Liquid		Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
Reconstitution Fluid	N/A	Sterile Water for Injection	N/A		N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concentration Options	10%	5% or 10%	5%	10%	5%	10%	10%	10%	10%	10%	10%	16.5%	20%	20%	10% IG with Recombinant Human Hyaluronidase (PH20)	15%–18% protein solution
Filtration	Not required	Product supplied with a transfer device and administration set that includes an integral airway and a 15 micron filter.	Not required		If a filtered infusion set is used (not mandatory), the filter size must be 0.2 to 200 microns.		Not required	Not required	In-line filter optional	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Indications	PI, chronic ITP (age ≥ 2 years)	PI (age ≥ 2 years), chronic ITP (adults), B cell CLL, pediatric Kawasaki disease	PI (age ≥ 2), chronic ITP	PI (age ≥ 2), chronic ITP (adults)	PI	chronic ITP (adults)	PI (age ≥ 2), chronic ITP (adults)	PI, chronic ITP (age ≥ 15 years), CIDP (adults)	<b>IVIG:</b> PI (age ≥ 2 years), MMN (adults) <b>SCIG:</b> PI (age ≥ 2 years)	<b>IVIG:</b> PI (age ≥ 2 years), CIDP (adults), ITP <b>SCIG:</b> PI (age ≥ 2 years)	<b>IVIG:</b> PI (age ≥ 2 years), CIDP (adults), ITP <b>SCIG:</b> (age ≥ 2 years)	PI in adults	PI (age ≥ 2 years)	PI (age ≥ 2 years), CIDP (adults)	PI (adults)	Hepatitis A, measles (rubeola), varicella, rubella <sup>13</sup>
Contraindications	History of anaphylactic or severe systemic hypersensitivity reactions to human immune globulin. IgA-deficient patients with antibodies to IgA and a history of hypersensitivity.	History of anaphylactic or severe systemic hypersensitivity reactions to the administration of GAMMAGARD S/D with < 1 µg/mL IgA in a 5% solution.	History of anaphylactic or severe systemic reaction to the administration of human immunoglobulin. IgA deficiency with antibodies to IgA and a history of hypersensitivity. 5% concentration only: Hereditary intolerance to fructose, also in infants and neonates for whom sucrose or fructose tolerance has not been established.		History of acute severe hypersensitivity reactions to human immunoglobulin. IgA-deficient patients with antibodies against IgA and a history of hypersensitivity. Octagam 5%: History of acute hypersensitivity reaction to corn, including corn allergy (Octagam 10%: Warning/Precaution for patients with corn allergy).		History of anaphylactic or severe systemic reactions to human immunoglobulin. Hyperproliferemia (Privigen contains L-proline as a stabilizer.) IgA-deficient patients with antibodies against IgA and a history of hypersensitivity.	History of anaphylactic or severe systemic reactions to human immunoglobulin. Hyperproliferemia (Privigen contains L-proline as a stabilizer.) IgA-deficient patients with antibodies to IgA and a history of hypersensitivity.	History of anaphylactic or severe systemic reactions to human immunoglobulin. IgA-deficient patients with antibodies to IgA and a history of hypersensitivity.	IgA deficiency with antibodies to IgA and a history of hypersensitivity. Anaphylactic or severe systemic reactions to human immunoglobulin.	IgA deficiency with antibodies to IgA and a history of hypersensitivity. Anaphylactic or severe systemic reactions to human immunoglobulin.	History of anaphylactic or severe systemic reaction to SC administration of human IG or to any components of CUTAQUIG (e.g. Polysorbate 80). IgA deficient patients with antibodies against IgA and a history of hypersensitivity to IG treatment.	History of an anaphylactic or severe systemic hypersensitivity reaction to the subcutaneous administration of human immune globulin. IgA-deficient patients with antibodies to IgA and a history of hypersensitivity to human immune globulin treatment.	History of anaphylactic or severe systemic reactions to human immune globulin or to components of Hizentra, such as polysorbate 80. Hyperproliferemia (type I or II); Hizentra contains L-proline as a stabilizer. IgA-deficient patients with antibodies against IgA and a history of hypersensitivity.	History of anaphylactic or severe systemic reactions to the administration of IgG. IgA-deficient patients with antibodies to IgA and a history of hypersensitivity. Known hypersensitivity to hyaluronidase including PH20 of HYQVIA. Known systemic hypersensitivity to human albumin (in the PH20 solution).	Persons with isolated IgA deficiency. Severe thrombocytopenia or any coagulation disorder or where IM injections are contraindicated. <sup>14</sup>
Initial Infusion Rate <sup>8</sup>	0.01 mL/kg/min	The recommended initial 5% solution infusion rate is 0.5 mL/kg/hr. Patients who tolerate the 5% concentration at 4 mL/kg/hr can be infused with 10% concentration starting at 0.5 mL/kg/hr.	0.01 mL/kg/min (0.5 mg/kg/min)	0.005 mL/kg/min (0.5 mg/kg/min)	0.5 mg/kg/min	1 mg/kg/min	0.01 mL/kg/min (1 mg/kg/min)	0.005 mL/kg/min (0.5 mg/kg/min)	<b>IVIG:</b> 0.5 mL/kg/hr (0.8 mg/kg/min) <b>SCIG:</b> If ≥ 40 kg body weight: 30 mL/site at 20 mL/hr/site. If < 40 kg body weight: 20 mL/site at 15 mL/hr/site.	<b>IVIG:</b> 1 mg/kg/min for PI/ITP and 2 mg/kg/min for CIDP. <b>SCIG (for PI only):</b> 20 mL/hr per infusion site (adults); see prescribing information for children.	<b>IVIG:</b> 1 mg/kg/min for PI/ITP and 2 mg/kg/min for CIDP. <b>SCIG (for PI only):</b> 20 mL/hr per infusion site (adults); see prescribing information for children and adolescents.	<b>For subcutaneous use only.</b> Refer to full prescribing information (Section 2.3. Administration) for initial administration rate instructions.	<b>For subcutaneous administration only.</b> Refer to full prescribing information (Section 2.3. Administration) for initial infusion rate instructions.	<b>For subcutaneous infusion only. Do not inject into a blood vessel (vein or artery).</b> For first infusion, do not exceed maximum volume of 15 mL per infusion site (PI) or 20 mL per infusion site (CIDP).	<b>For subcutaneous use only.</b> Administer PH20 at an initial rate per site of approximately 1 to 2 mL per minute, or as tolerated. Refer to full prescribing information (Section 2.2. Administration) for 10% immune globulin initial infusion rate instructions.	See full prescribing information for dosing information.
Other Administration Information <sup>2</sup>	Several vials may be pooled into an empty sterile IV solution container by using aseptic technique.	Begin administration as soon as possible within 2 hours if reconstitution is performed aseptically outside of a sterile laminar air flow hood. <sup>5</sup> Administer the reconstituted material at room temperature.	Administer at room temperature. Infuse using a separate infusion line. An infusion pump may be used to control the rate of administration. For administration of large doses, pool multiple vials using aseptic technique. 5% concentration only: Begin infusion within 2 hours after pooling.		Administer at room temperature.		Administer at room or body temperature only, using an in-line filter with pore size 0.2-200 microns (although filtering not mandatory.) After administration, flush the infusion line with either normal saline or 5% dextrose in water.	Infuse at room temperature. Do not shake. Vials may be pooled using aseptic technique (begin infusion within 8 hours of pooling.) Contains no preservative; use promptly once vial is entered.	Do not mix with other products. Do not shake. Allow product to come to room temperature before use. Do not microwave.	If dilution is required, may be diluted with 5% dextrose in water (D5W). Contents of vials may be pooled under aseptic conditions into sterile infusion bags. Use within 8 hours after pooling. Warm to room temperature prior to infusion.	If dilution is required, may be diluted with 5% dextrose in water (D5W). Contents of vials may be pooled under aseptic conditions into sterile infusion bags. Use within 8 hours after pooling. Warm to room temperature prior to infusion.	Administer using an infusion pump and compatible syringe(s). Do not dilute CUTAQUIG.	Allow refrigerated vials to come to room temperature. Do not dilute. Do not shake. Do not apply heat or place in microwave. Do not return CUVITRU to the refrigerator if taken out to room temperature.	Discard all used administration supplies and any unused product immediately after each infusion.	Do not mix Hizentra with other products.	Do not administer subcutaneously or intravenously due to potential for serious reactions. Administer intramuscularly, preferably in the anterolateral aspects of the upper thigh and the deltoid muscle of the upper arm. The gluteal region should not be used routinely.
Compatibility Issues <sup>6</sup>	Do not dilute with other IV fluids. Do not inject other medications into IV tubing being used for Flebogamma, or add any medications or other IV fluids to the Flebogamma infusion container. Infuse through a separate IV line.	Administer separately from other drugs/medications. Do not mix the product with human IVIG products from other manufacturers.	Do not mix with other IV medications (including normal saline) or IVIG products.		Administer separately from other drugs or medications. The infusion line may be flushed before or after Octagam administration with either normal saline or 5% dextrose in water (D5W).		Do not administer PANZYGA simultaneously with another intravenous preparation in the same infusion set, including immune globulin products from another manufacturer.	Do not mix with other IVIG products or other intravenous medications. May be diluted with Dextrose Injection, USP (D5W). Infusion line can be flushed with D5W or 0.9% Sodium Chloride for Injection, USP.	Do not mix with other products. Do not shake. Allow product to come to room temperature before use. Do not microwave.	If dilution is desired, 5% dextrose in water (D5W) may be used as a diluent. Do not use normal saline as a diluent (the infusion line may be flushed with normal saline).	Infuse product by separate line without mixing with other IV fluids or medications. <b>Do not dilute with saline.</b>	Infuse product by separate line without mixing with other IV fluids or medications. <b>Do not dilute with saline.</b>	Do not mix CUVITRU with other products.	Do not mix Hizentra with other products.	Do not mix the PH20 and 10% immune globulin into the same container prior to administration. Do not mix or administer components of HYQVIA with other products. Flush the infusion line with normal saline or Dextrose 5% in water (D5W) if required.	N/A
IgA Content	< 100 µg/mL	< 1 µg/mL (5% concentration)	< 10 µg/mL	< 20 µg/mL	Not more than 200 µg/mL	Average of 106 µg/mL	Average 100 µg/mL	≤ 25 µg/mL	Average 37 µg/mL	Average 46 µg/mL	Average 46 µg/mL	≤ 0.6 mg/mL	Average 80 µg/mL	≤ 50 mcg/mL	Average 37 µg/mL	Not identified in prescribing information
Sugar Content	<b>D-sorbitol 50 mg/mL</b>	<b>Glucose 20mg/ml (5% concentration)</b> , glycine	<b>D-sorbitol 50 mg/mL</b> , glycine, polysorbate 80	Glycine, polysorbate 80	<b>Maltose 100 mg/mL<sup>9</sup></b>	<b>Maltose 90 mg/mL<sup>9</sup></b>	Glycine	L-proline	Glycine	Glycine	Glycine	<b>Maltose 79 mg/mL<sup>9</sup></b>	Glycine	L-proline, polysorbate 80	Glycine	None
Osmolality	240–370 mOsm/L	5% concentration: 636 mOsm/L 10% concentration: 1250 mOsm/L	Not less than 240 mOsm/kg (typically 420 to 500 mOsmol/kg)	Not less than 240 mOsmol/kg (typically 280 mOsmol/kg)	310-380 mOsmol/kg		240-310 mOsmol/kg	320 mOsmol/kg (range 240 to 440 mOsmol/kg)	240–300 mOsmol/kg	258 mOsmol/kg	258 mOsmol/kg	310-380 mOsmol/kg	280 to 292 mOsmol/kg	N/A	240 to 300 mOsmol/kg	N/A

## GENERAL INFORMATION

Do not mix immune globulin intravenous (human) products of differing formulations or brands. Do not use reconstituted products if particulate matter or discoloration is seen. Antibodies may interfere with response to live viral vaccines.

The information presented in this guide is not meant to serve as a guideline for patient management. Any procedures, medications or other courses of diagnosis or treatment discussed or suggested in this guide should not be used by clinicians without full evaluation of their patients' conditions and possible contraindications or dangers in use, review of any applicable manufacturer's product information, and comparison with recommendations of other authorities.

## KEY

<b>CLL</b>	chronic lymphocytic leukemia	<b>IVIG</b>	intravenous immune globulin	<b>N/A</b>	not applicable
<b>CIDP</b>	chronic inflammatory demyelinating polyneuropathy	<b>mL</b>	milliliter	<b>PH20</b>	recombinant human hyaluronidase
<b>IgA</b>	immunoglobulin A	<b>MMN</b>	multifocal motor neuropathy	<b>PI</b>	primary immunodeficiency disorders
<b>IGIM</b>	immune globulin intramuscular	<b>mOsm/kg</b>	milliosmoles per kilogram	<b>SCIG</b>	subcutaneous immune globulin
<b>ITP</b>	immune thrombocytopenic purpura	<b>mOsm/L</b>	milliosmoles per liter	<b>µg</b>	micrograms

## NOTES

- Additional instructions or special recommendations (e.g., administration to patients at increased risk of acute renal failure) may appear in full prescribing information; always refer to full prescribing information before initiating treatment with any of these products.
- Includes selected highlights only; for complete administration instructions, refer to full prescribing information.
- Call for availability.
- Total storage time depends on timing of transfer to room temperature; see full prescribing information.
- Manufacture of GAMMAGARD S/D with IgA ≤ 2.2 µg/mL was discontinued after December 2012; manufacture of GAMMAGARD S/D with IgA < 1 µg/mL will continue. See full prescribing information for contraindications to GAMMAGARD S/D with IgA ≤ 2.2 µg/mL.
- When reconstitution is performed aseptically in a sterile laminar air flow hood, the reconstituted product may be either maintained in the original glass container or pooled into Vialflex bags and stored under constant refrigeration (2°–8°C). Check with each manufacturer on extended stability information.
- FFF does not currently supply this product.

- May store at temperatures not to exceed 25°C (77°F) for up to 6 months anytime during the 36 month shelf life.
- Maltose can be misinterpreted as glucose (resulting in falsely elevated glucose readings) by certain types of blood glucose testing systems. See manufacturer's warning.
- When stored up to 25°C (77°F), product is stable for up to 36 months as indicated by the expiration date on the packaging.
- Doses may be divided and infused into several sites (refer to full prescribing information for maximum number of sites to use at the same time). Injection sites in the same session should be at least two inches apart. Change the actual site of injection with each weekly administration.
- Packaged with 1.25 mL, 2.5 mL, 5.0 mL, 10.0 mL and 15.0 mL of recombinant human hyaluronidase (PH20), respectively.
- Should not be used for prophylaxis of viral hepatitis type B. Not indicated for routine prophylaxis or treatment of rubella, poliomyelitis, mumps or varicella. Not indicated for allergy or asthma in patients who have normal levels of immunoglobulin. Refer to full prescribing information.
- Should be given with caution to patients with a history of prior systemic allergic reactions following administration of human immunoglobulin preparations.

## IG Resources

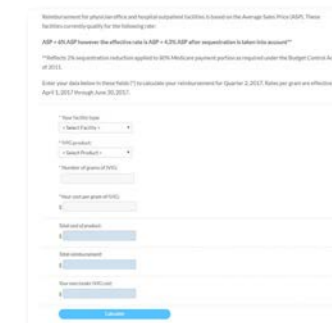
# IVIG & SCIG Dosing Calculations

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# Immune Globulin (Human) Reference Chart

The critical-care products you need, when you need them.

### IG Reimbursement Calculator



Calculate your current Medicare intravenous immune globulin (IVIG) and subcutaneous immune globulin (SCIG) rates at [FFEnterprises.com](http://FFEnterprises.com).

### IG Living Magazine

Resources for successful living for immune globulin patients and their healthcare providers. Subscribe and view our online edition at [IGLiving.com](http://IGLiving.com).



### Reimbursement Question?



FFF has a robust, nationwide sales force of professionals, as well as access to infusion, pharmacy and reimbursement advisors. Our skilled professionals are experienced with every IG product we carry and can provide answers to your questions 24/7 at (800) 843-7477.

#### LIQUID PRODUCTS

The ready-to-infuse liquid form is manufactured in 5%, 10%, 16.5% and 20% concentrations and requires no reconstitution or dilution. Gram-volume relationships are as follows. Not all IVIG brands are available in all sizes. See chart on other side.

IVIG Liquid 10% (and some SCIG brands)						
1 g	2 g	2.5 g	5 g	10 g	20 g	30 g
10 mL	20 mL	25 mL	50 mL	100 mL	200 mL	300 mL
						400 mL

IVIG Liquid 5%					
1 g	2.5 g	5 g	10 g	20 g	25 g
20 mL	50 mL	100 mL	200 mL	400 mL	500 mL

CUTAQUIG® 16.5%					
1 g	1.65 g	2 g	3.3 g	4 g	8 g
6 mL	10 mL	12 mL	20 mL	24 mL	48 mL

CUVITRU® 20%				
1 g	2 g	4 g	8 g	
5 mL	10 mL	20 mL	40 mL	

Hizentra® 20%				
1 g	2 g	4 g	10 g	
5 mL	10 mL	20 mL	50 mL	

HYQVIA® (10% Immune Globulin with recombinant human hyaluronidase)					
IG	2.5 g	5 g	10 g	20 g	30 g
		25 mL	50 mL	100 mL	200 mL
Hyaluronidase	200 u	400 u	800 u	1600 u	2400 u
	1.25 mL	2.5 mL	5 mL	10 mL	15 mL

#### LYOPHILIZED PRODUCTS

The only lyophilized product, Gammagard S/D Low IGA, must be reconstituted prior to administration. The patient's fluid and renal function should be considered in selecting an appropriate concentration. The proper amount of sterile water for injection (SWFI) is necessary to produce the correct concentration. SWFI volumes and osmolality/osmolality appear in the chart below.

GAMMAGARD® S/D LOW IGA			
Packaged with sterile water for injection; final volumes in parentheses.			
Concentration	5 g	10 g	Osmolality (mOsm/L)
5%	96 mL (100 mL)	192 mL (200 mL)	636
10%	48 mL (50 mL)	96 mL (100 mL)	1250

#### HIZENTRA DOSAGE RECOMMENDATION FOR CIDP

- Initiate HIZENTRA 1 week after the last IVIG dose.
- Recommended HIZENTRA dose is 0.2 g/kg (1 mL/kg) per week (all dosing based on actual body weight).
  - In the clinical study after transitioning from IVIG to HIZENTRA, a dose of 0.4 g/kg (2 mL/kg) per week was also safe and effective to prevent CIDP relapse.
- If CIDP symptoms worsen, consider re-initiating treatment with IVIG, while discontinuing HIZENTRA.
  - If improvement and stabilization are observed during IVIG treatment, consider reinitiating HIZENTRA at 0.4 g/kg per week, while discontinuing IVIG.
  - If CIDP symptoms worsen on 0.4 g/kg per week, consider re-initiating therapy with IVIG, while discontinuing HIZENTRA.
- Monitor and adjust based on clinical response.

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- Subcutaneous IG Products
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The nation's largest and most trusted specialty distributor of plasma products, vaccines, biosimilars and other specialty pharmaceuticals and biopharmaceuticals.

Patient Safety | Product Efficacy | Fair Pricing



Beginning in 1988, FFF had the goal to provide our customers and patients with counterfeit-free products. We have maintained this goal through our commitment to **Guaranteed Channel Integrity**™ — our promise to purchase only from manufacturers and ship only to licensed healthcare providers, thereby protecting you and your patients from the risks of counterfeiting, drug diversion and irresponsible pricing.



Our **Lot-Track**® service tracks products by lot number and provides recall notifications within four hours directly to those affected.



Our **Verified Inventory Program-Consignment (VIPc)**® utilizes RFID-powered technology to provide real-time inventory management of high-value medications and eliminate carrying costs through a consignment-based model, allowing you to focus on patient care.

With a perfect safety track record of counterfeit-free product distribution since 1988, FFF continues to set the standard for patient safety, product efficacy, and fair pricing for the critical-care products and vaccines that improve the quality of life for the patients we serve.

- Immune Globulins
- Hyperimmune Globulins
- Coagulation
- Antithrombin
- Albumin
- Antivirals
- Influenza Vaccines
- Pediatric Vaccines
- Adult Vaccines
- Brand Pharmaceuticals
- Other Pharmaceuticals
- Oncology
- Ophthalmology
- Ancillaries
- BioSurgicals