

# Assessment of Immunoglobulin Utilization and Shortage

Protocol Addendum      October 6, 2020

## STUDY TEAM

<b>FDA/CBER</b>
Dorothy Scott Graça Dores Cindy Zhou Azadeh Shoaibi Hui-Lee Wong
<b>Acumen, LLC</b>
Yoganand Chillarige Ellen Tworkoski Yixin Jiao Ayushi Bhargava Arnstein Lindaas Shanlai Shangguan Rowan McEvoy Yuxin Ma Stella Muthuri Jiemin Liao Nirmal Choradia Laurie Feinberg Michael Wernecke
<b>Stanford University</b>
Lorene Nelson Julia Simard Steven Goodman
<b>IBM</b>
Keran Moll Bill Olesiuk Kathryn Fingar Tim Burrell Jane Naig Shayan Hobbi

## ABBREVIATIONS

---

<b>FDA</b>	U.S. Food and Drug Administration
<b>HCPCS</b>	Healthcare Common Procedure Coding System
<b>CPT</b>	Current Procedural Terminology
<b>ICD-9-CM</b>	International Classification of Diseases, Ninth Revision, Clinical Modification
<b>ICD-10-CM/PCS</b>	International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System
<b>NDC</b>	National Drug Code

---

OVERVIEW

**STUDY TEAM** ..... 2

**ABBREVIATIONS** ..... 3

**1. IMMUNOGLOBULIN PRODUCTS OF INTEREST** ..... 5

**2. REFERENCES**..... 6

**3. APPENDIX** ..... 7

## 1. IMMUNOGLOBULIN PRODUCTS OF INTEREST

Given that the study period spans January 1, 2009 to September 30, 2019 for IBM MarketScan and January 1, 2009 to December 31, 2019 for Medicare, Iveegam will be excluded from the list of exposures as it was discontinued in September, 2008.<sup>1</sup> The study will focus on following IVIG and SCIG products approved by FDA<sup>2</sup>, and a list of ICD-10-PRC, HCPCS, and NDC codes used to identify these exposures can be found on Appendix 1 and Appendix 2.

- **IVIG:** Asceniv, Bivigam, Carimune, Flebogamma, Gammagard S/D, Gammaplex, Gammar-P IV, Gamunex, Octagam, Panzyga, Panglobulin, Polygam, Privigen, Sandoglobulin;
- **SCIG:** Cutaquig, Cuvitru, Hizentra, Hyqvia, Vivaglobin, Xembify;
- **IV/SCIG:** Gammagard Liquid, Gammaked, Gamunex-C

## 2. REFERENCES

1. US Food and Drug Administration. User Fee Billable Biologic Products and Potencies Approved Under Section 351 of the PHS Act. 2020; <https://www.fda.gov/media/113210/download>. Accessed October 1, 2020.
2. US Food and Drug Administration. Immune Globulins. <https://www.fda.gov/vaccines-blood-biologics/approved-blood-products/immune-globulins> Accessed June 29, 2020.

### 3. APPENDIX

#### *Appendix 1. ICD-9/10-CM Procedure Codes and HCPCS Codes for IVIG and SCIG Drugs*

Product Name	Code	Code Type	Short Description	Long Description	Brand Names
Intravenous immunoglobulin (IVIG)	90283	CPT	Human ig, iv	Immune globulin (igiv), human, for intravenous use	Nonspecific
Intravenous immunoglobulin (IVIG)	90399	CPT	Human ig, iv	Unlisted immune globulin injection or infusion	Nonspecific
Intravenous immunoglobulin (IVIG)	J1459	HCPCS	Inj ivig privigen 500 mg	Injection, immune globulin (privigen), intravenous, non-lyophilized (e.g., liquid), 500 mg	PRIVIGEN
Intravenous immunoglobulin (IVIG)	J1556	HCPCS	Inj, imm glob bivigam, 500mg	Injection, immune globulin (bivigam), 500 mg	BIVIGAM
Intravenous immunoglobulin (IVIG)	J1557	HCPCS	Gammaplex injection	Injection, immune globulin, (gammaplex), intravenous, non-lyophilized (e.g., liquid), 500 mg	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	J1563	HCPCS		IV IMMUNE GLOBULIN	Nonspecific
Intravenous immunoglobulin (IVIG)	J1566	HCPCS	Immune globulin, powder	Injection, immune globulin, intravenous, lyophilized (e.g. powder), not otherwise specified, 500 mg	Nonspecific
Intravenous immunoglobulin (IVIG)	J1567	HCPCS	Immune globulin, liquid	Injection, immune globulin, intravenous, non-lyophilized (e.g. liquid), 500 mg	Nonspecific
Intravenous immunoglobulin (IVIG)	J1568	HCPCS	Octagam injection	Injection, immune globulin, (octagam), intravenous, non-lyophilized (e.g., liquid), 500 mg	OCTAGAM
Intravenous immunoglobulin (IVIG)	J1572	HCPCS	Flebogamma injection	Injection, immune globulin, (flebogamma/flebogamma dif), intravenous, non-lyophilized (e.g. liquid), 500 mg	FLEBOGAMMA

Intravenous immunoglobulin (IVIG)	30230S1	PRC10		Transfusion of Nonautologous Globulin into Peripheral Vein, Open Approach	Nonspecific
Intravenous immunoglobulin (IVIG)	30233S1	PRC10		Transfusion of Nonautologous Globulin into Peripheral Vein, Percutaneous Approach	Nonspecific
Intravenous immunoglobulin (IVIG)	30240S1	PRC10		Transfusion of Nonautologous Globulin into Central Vein, Open Approach	Nonspecific
Intravenous immunoglobulin (IVIG)	30243S1	PRC10		Transfusion of Nonautologous Globulin into Central Vein, Percutaneous Approach	Nonspecific
Intravenous immunoglobulin (IVIG)	30253S1	PRC10		Transfusion of Nonautologous Globulin into Peripheral Artery, Percutaneous Approach	Nonspecific
Intravenous immunoglobulin (IVIG)	30263S1	PRC10		Transfusion of Nonautologous Globulin into Central Artery, Percutaneous Approach	Nonspecific
Intravenous immunoglobulin (IVIG)	C9270	HCPCS	Gammaflex, 500 mg	Injection, immune globulin (gammaflex), intravenous, non-lyophilized (e.g. liquid), 500 mg	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	C9130	HCPCS	Bivigam, 500 mg	Injection, immune globulin (bivigam), 500 mg	BIVIGAM
Intravenous immunoglobulin (IVIG)	Q4087	HCPCS	Octagam, 500 mg	INJECTION, IMMUNE GLOBULIN, (OCTAGAM), INTRAVENOUS, NON-LYOPHILIZED (E.G. LIQUID), 500 MG	OCTAGAM
Intravenous immunoglobulin (IVIG)	Q4091	HCPCS	Flebogamma, 500 mg	INJECTION, IMMUNE GLOBULIN, (FLEBOGAMMA), INTRAVENOUS, NON-LYOPHILIZED (E.G. LIQUID), 500 MG	FLEBOGAMMA
Intravenous immunoglobulin (IVIG)	Q4092	HCPCS	Gamunex, 500 mg	INJECTION, IMMUNE GLOBULIN, (GAMUNEX), INTRAVENOUS, NON-LYOPHILIZED (E.G. LIQUID), 500 MG	GAMUNEX
Intravenous immunoglobulin (IVIG)	Q4097	HCPCS	Privigen, 500 mg	INJECTION, IMMUNE GLOBULIN, (PRIVIGEN), INTRAVENOUS, NON-LYOPHILIZED (E.G. LIQUID), 500 MG	PRIVIGEN



Intravenous immunoglobulin (IVIG)	30250S1	PRC10		Transfusion of Nonautologous Globulin into Peripheral Artery, Open Approach	Nonspecific
Intravenous immunoglobulin (IVIG)	30260S1	PRC10		Transfusion of Nonautologous Globulin into Central Artery, Open Approach	Nonspecific
Intravenous immunoglobulin (IVIG)	99.14	PRC9		Injection or infusion of immunoglobulin	Nonspecific
Subcutaneous immunoglobulin (SCIG)	90284	CPT	Human ig, sc	Immune globulin (scig), human, for use in subcutaneous infusions, 100 mg, each	Nonspecific
Subcutaneous immunoglobulin (SCIG)	J1559	HCPCS	Injection, immune globulin (hizentra), 100 mg	Injection, immune globulin (hizentra), 100 mg	HIZENTRA
Subcutaneous immunoglobulin (SCIG)	J1562	HCPCS	Immune globulin 5 gms	Injection, immune globulin (vivaglobin), 100 mg	VIVAGLOBIN
Subcutaneous immunoglobulin (SCIG)	J1555	HCPCS	Inj, imm glob cuvitru, 100mg	Injection, immune globulin (cuvitru) 100 mg	CUVITRU
Subcutaneous immunoglobulin (SCIG)	J1575	HCPCS	Hyqvia 100mg immunoglobulin	Injection, immune globulin/hyaluronidase, (hyqvia), 100 mg immunoglobulin	HYQVIA
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	J1564	HCPCS		IMMUNE GLOBULIN 10 MG	Nonspecific
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	J1561	HCPCS	Immune globulin 500 mg	Injection, immune globulin, (gamunex-c/gammaked), non-lyophilized (e.g., liquid), 500 mg	GAMUNEX-C /GAMMAKED

Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	J1569	HCPCS	Gammagard liquid injection	Injection, immune globulin, (gammagard liquid), non-lyophilized, (e.g. liquid), 500 mg	GAMMAGARD Liquid
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	Q4088	HCPCS	Gammagard liquid injection, 500 mg	INJECTION, IMMUNE GLOBULIN, (GAMMAGARD), INTRAVENOUS, NON-LYOPHILIZED (E.G. LIQUID), 500 MG	GAMMAGARD Liquid
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	J1599	HCPCS	Ivig non-lyophilized, nos	Injection, immune globulin, intravenous, non-lyophilized (e.g., liquid), not otherwise specified, 500 mg	Nonspecific

**Appendix 2. NDCs for IVIG/SCIG Drugs**

<b>Product Name</b>	<b>11-digit Code</b>	<b>FDB Generic Name</b>	<b>FDB Brand Name</b>
Intravenous immunoglobulin (IVIG)	00026064612	immune globulin gamma (IGG)	GAMIMUNE N
Intravenous immunoglobulin (IVIG)	00026064620	immune globulin gamma (IGG)	GAMIMUNE N
Intravenous immunoglobulin (IVIG)	00026064624	immune globulin gamma (IGG)	GAMIMUNE N
Intravenous immunoglobulin (IVIG)	00026064625	immune globulin gamma (IGG)	GAMIMUNE N
Intravenous immunoglobulin (IVIG)	00026064671	immune globulin gamma (IGG)	GAMIMUNE N
Intravenous immunoglobulin (IVIG)	00053748605	immune globulin gamma (IGG)	GAMMAR P I.V.
Intravenous immunoglobulin (IVIG)	00053748610	immune globulin gamma (IGG)	GAMMAR P I.V.
Intravenous immunoglobulin (IVIG)	00078012094	immune globulin gamma (IGG)	SANDOGLOBULIN
Intravenous immunoglobulin (IVIG)	00944047169	immune globulin gamma (igg)	POLYGAM S D
Intravenous immunoglobulin (IVIG)	00944047172	immune globulin gamma (igg)	POLYGAM S D
Intravenous immunoglobulin (IVIG)	00944047175	immune globulin gamma (igg)	POLYGAM S D
Intravenous immunoglobulin (IVIG)	00944047180	immune globulin gamma (igg)	POLYGAM S D
Intravenous immunoglobulin (IVIG)	00944280701	immune globulin gamma (igg)	GAMMAGARD S D
Intravenous immunoglobulin (IVIG)	00944280704	immune globulin gamma (igg)	GAMMAGARD S D
Intravenous immunoglobulin (IVIG)	00944262001	immune globulin gamma (igg)	GAMMAGARD S D
Intravenous immunoglobulin (IVIG)	00944262002	immune globulin gamma (igg)	GAMMAGARD S D
Intravenous immunoglobulin (IVIG)	00944262003	immune globulin gamma (igg)	GAMMAGARD S D

Intravenous immunoglobulin (IVIG)	00944262004	immune globulin gamma (igg)	GAMMAGARD S D
Intravenous immunoglobulin (IVIG)	00944265503	immune globulin gamma (igg)	GAMMAGARD S D
Intravenous immunoglobulin (IVIG)	00944265504	immune globulin gamma (igg)	GAMMAGARD S D
Intravenous immunoglobulin (IVIG)	00944265603	Immune globulin gamma(igg)	GAMMAGARD S D
Intravenous immunoglobulin (IVIG)	00944265804	Immune globulin gamma(igg)	GAMMAGARD S D
Intravenous immunoglobulin (IVIG)	00026064515	Immune glob gam caprylate(igg)	GAMUNEX
Intravenous immunoglobulin (IVIG)	00026064520	Immune glob gam caprylate(igg)	GAMUNEX
Intravenous immunoglobulin (IVIG)	00026064524	Immune glob gam caprylate(igg)	GAMUNEX
Intravenous immunoglobulin (IVIG)	00026064571	Immune glob gam caprylate(igg)	GAMUNEX
Intravenous immunoglobulin (IVIG)	13533064515	Immune glob gam caprylate(igg)	GAMUNEX
Intravenous immunoglobulin (IVIG)	13533064571	Immune glob gam caprylate(igg)	GAMUNEX
Intravenous immunoglobulin (IVIG)	13533064520	Immune glob gam caprylate(igg)	GAMUNEX
Intravenous immunoglobulin (IVIG)	13533064524	Immune globulin gamma caprylate (igg)	GAMUNEX
Intravenous immunoglobulin (IVIG)	44206041501	immune globulin gamma (igg)	CARIMUNE NF NANOFILTERED
Intravenous immunoglobulin (IVIG)	44206041603	immune globulin gamma (igg)	CARIMUNE NF NANOFILTERED
Intravenous immunoglobulin (IVIG)	44206041706	immune globulin gamma (igg)	CARIMUNE NF NANOFILTERED
Intravenous immunoglobulin (IVIG)	44206041812	immune globulin gamma (igg)	CARIMUNE NF NANOFILTERED
Intravenous immunoglobulin (IVIG)	44206043605	Immune globulin gamma (igg) proline iga 0 to 50 mcg ml	PRIVIGEN

Intravenous immunoglobulin (IVIG)	44206043710	Immune globulin gamma(igg)	PRIVIGEN
Intravenous immunoglobulin (IVIG)	44206043820	Immune globulin gamma (igg) proline iga 0 to 50 mcg ml	PRIVIGEN
Intravenous immunoglobulin (IVIG)	44206043892	Immune globulin gamma (igg) proline iga 0 to 50 mcg ml	PRIVIGEN
Intravenous immunoglobulin (IVIG)	44206043940	Immune globulin gamma(igg)	PRIVIGEN
Intravenous immunoglobulin (IVIG)	44206050551	Immune globulin gamma(igg)	CARIMUNE
Intravenous immunoglobulin (IVIG)	44206050653	Immune globulin gamma(igg)	CARIMUNE
Intravenous immunoglobulin (IVIG)	44206050756	Immune globulin gamma(igg)	CARIMUNE
Intravenous immunoglobulin (IVIG)	44206050862	Immune globulin gamma(igg)	CARIMUNE
Intravenous immunoglobulin (IVIG)	52769026866	Immune globulin gamma(igg)	PANGLOBULIN
Intravenous immunoglobulin (IVIG)	52769026972	Immune globulin gamma(igg)	PANGLOBULIN
Intravenous immunoglobulin (IVIG)	52769027071	Immune globulin gamma(igg)	PANGLOBULIN
Intravenous immunoglobulin (IVIG)	52769027073	Immune globulin gamma(igg)	PANGLOBULIN
Intravenous immunoglobulin (IVIG)	52769041706	Immune globulin gamma(igg)	PANGLOBULIN NF
Intravenous immunoglobulin (IVIG)	52769041812	Immune globulin gamma(igg)	PANGLOBULIN NF
Intravenous immunoglobulin (IVIG)	52769047172	Immune globulin gamma(igg)	POLYGAM S D
Intravenous immunoglobulin (IVIG)	52769047175	Immune globulin gamma(igg)	POLYGAM S D
Intravenous immunoglobulin (IVIG)	52769047180	Immune globulin gamma(igg)	POLYGAM S D
Intravenous immunoglobulin (IVIG)	61953000302	Immune globulin gamma(igg)	FLEBOGAMMA DIF

Intravenous immunoglobulin (IVIG)	61953000303	immune globulin gamma (igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000304	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000400	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000401	immune globulin gamma (igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000402	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000403	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000404	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000405	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000406	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000407	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000408	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000409	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000501	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000502	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000503	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000504	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000505	Immune globulin gamma(igg)	FLEBOGAMMA DIF
Intravenous immunoglobulin (IVIG)	61953000506	Immune globulin gamma(igg)	FLEBOGAMMA DIF

Intravenous immunoglobulin (IVIG)	64208823401	Immune globulin gamma(igg)	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823402	Immune globulin gamma(igg)	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823403	Immune globulin gamma(igg)	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823404	Immune globulin gamm(igg) sorbitol glycin iga 0 to 50 mcg ml	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823405	Immune globulin gamma(igg)	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823406	Immune globulin gamma(igg)	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823407	Immune globulin gamma(igg)	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823408	Immune globulin gamma(igg)	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823501	Immune globulin gamma (igg) glycine iga 0 to 50 mcg ml	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823502	Immune globulin gamma (igg) glycine iga 0 to 50 mcg ml	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823503	Immune globulin gamma (igg) glycine iga 0 to 50 mcg ml	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823505	Immune globulin gamma (igg) glycine iga 0 to 50 mcg ml	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823506	Immune globulin gamma (igg) glycine iga 0 to 50 mcg ml	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	64208823507	Immune globulin gamma (igg) glycine iga 0 to 50 mcg ml	GAMMAPLEX
Intravenous immunoglobulin (IVIG)	67467084301	immune globulin gamma (igg) maltose	OCTAGAM
Intravenous immunoglobulin (IVIG)	67467084302	Immune globulin gamm(igg) maltose iga greater than 50 mcg ml	OCTAGAM
Intravenous immunoglobulin (IVIG)	67467084303	Immune globulin gamm(igg) maltose iga greater than 50 mcg ml	OCTAGAM

Intravenous immunoglobulin (IVIG)	67467084304	Immune globulin gamm(igg) maltose iga greater than 50 mcg ml	OCTAGAM
Intravenous immunoglobulin (IVIG)	68209084302	Immune globulin gamm(igg) maltose iga greater than 50 mcg ml	OCTAGAM
Intravenous immunoglobulin (IVIG)	68209084303	Immune globulin gamm(igg) maltose iga greater than 50 mcg ml	OCTAGAM
Intravenous immunoglobulin (IVIG)	68209084304	Immune globulin gamm(igg) maltose iga greater than 50 mcg ml	OCTAGAM
Intravenous immunoglobulin (IVIG)	68982082001	Human immunoglobulin g	Panzyga
Intravenous immunoglobulin (IVIG)	68982082002	Human immunoglobulin g	Panzyga
Intravenous immunoglobulin (IVIG)	68982082003	Human immunoglobulin g	Panzyga
Intravenous immunoglobulin (IVIG)	68982082004	Human immunoglobulin g	Panzyga
Intravenous immunoglobulin (IVIG)	68982082005	Human immunoglobulin g	Panzyga
Intravenous immunoglobulin (IVIG)	68982082006	Human immunoglobulin g	Panzyga
Intravenous immunoglobulin (IVIG)	68982084001	Immune globulin gamm(igg) maltose iga greater than 50 mcg ml	OCTAGAM
Intravenous immunoglobulin (IVIG)	68982084002	Immune globulin gamm(igg) maltose iga greater than 50 mcg ml	OCTAGAM
Intravenous immunoglobulin (IVIG)	68982084003	Immune globulin gamm(igg) maltose iga greater than 50 mcg ml	OCTAGAM
Intravenous immunoglobulin (IVIG)	68982084004	Immune globulin gamm(igg) maltose iga greater than 50 mcg ml	OCTAGAM
Intravenous immunoglobulin (IVIG)	68982084005	Immune globulin gamm(igg) maltose iga greater than 50 mcg ml	OCTAGAM



Intravenous immunoglobulin (IVIG)	68982085001	Immune globulin gamma (igg) human maltose	OCTAGAM
Intravenous immunoglobulin (IVIG)	68982085002	Immune globulin gamma (igg) human maltose	OCTAGAM
Intravenous immunoglobulin (IVIG)	68982085003	Immune globulin gamma (igg) human maltose	OCTAGAM
Intravenous immunoglobulin (IVIG)	68982085004	Immune globulin gamma (igg) human maltose	OCTAGAM
Intravenous immunoglobulin (IVIG)	69800025001		ASCENIV
Intravenous immunoglobulin (IVIG)	69800025002		ASCENIV
Intravenous immunoglobulin (IVIG)	59730650301	Human immunoglobulin g	BIVIGAM (U)
Intravenous immunoglobulin (IVIG)	59730650201	Human immunoglobulin g	BIVIGAM (U)
Intravenous immunoglobulin (IVIG)	76125091804	Human immunoglobulin g	BIVIGAM (U)
Intravenous immunoglobulin (IVIG)	76125091809	Human immunoglobulin g	BIVIGAM (U)
Subcutaneous immunoglobulin (SCIG)	00053759601	Immune globulin gamma (IGG)	VIVAGLOBIN
Subcutaneous immunoglobulin (SCIG)	00053759603	Immune globulin gamma (IGG)	VIVAGLOBIN
Subcutaneous immunoglobulin (SCIG)	00053759610	Immune globulin gamma (IGG)	VIVAGLOBIN
Subcutaneous immunoglobulin (SCIG)	00053759615	Immune globulin gamma (IGG)	VIVAGLOBIN
Subcutaneous immunoglobulin (SCIG)	00053759620	Immune globulin gamma (IGG)	VIVAGLOBIN
Subcutaneous immunoglobulin (SCIG)	00053759625	Immune globulin gamma (IGG)	VIVAGLOBIN
Subcutaneous immunoglobulin (SCIG)	00944251002	Immune globulin gamma(igg) human hyaluronidase human recomb	HYQVIA

Subcutaneous immunoglobulin (SCIG)	00944251102	Immune globulin gamma(igg) human hyaluronidase human recomb	HYQVIA
Subcutaneous immunoglobulin (SCIG)	00944251202	Immune globulin gamma(igg) human hyaluronidase human recomb	HYQVIA
Subcutaneous immunoglobulin (SCIG)	00944251302	Immune globulin gamma(igg) human hyaluronidase human recomb	HYQVIA
Subcutaneous immunoglobulin (SCIG)	00944251402	Immune globulin gamma(igg) human hyaluronidase human recomb	HYQVIA
Subcutaneous immunoglobulin (SCIG)	00944285001	Immune globulin gamma (IGG) glycine IGA greater than 50 mcg ml	CUVITRU
Subcutaneous immunoglobulin (SCIG)	00944285002	Immune globulin gamma (IGG) glycine IGA greater than 50 mcg ml	CUVITRU
Subcutaneous immunoglobulin (SCIG)	00944285003	Immune globulin gamma (IGG) glycine IGA greater than 50 mcg ml	CUVITRU
Subcutaneous immunoglobulin (SCIG)	00944285004	Immune globulin gamma (IGG) glycine IGA greater than 50 mcg ml	CUVITRU
Subcutaneous immunoglobulin (SCIG)	00944285005	Immune globulin gamma (IGG) glycine IGA greater than 50 mcg ml	CUVITRU
Subcutaneous immunoglobulin (SCIG)	00944285006	Immune globulin gamma (IGG) glycine IGA greater than 50 mcg ml	CUVITRU
Subcutaneous immunoglobulin (SCIG)	00944285007	Immune globulin gamma (IGG) glycine IGA greater than 50 mcg ml	CUVITRU
Subcutaneous immunoglobulin (SCIG)	00944285008	Immune globulin gamma (IGG) glycine IGA greater than 50 mcg ml	CUVITRU
Subcutaneous immunoglobulin (SCIG)	44206045101	Immune globulin gamma(IGG)	HIZENTRA
Subcutaneous immunoglobulin (SCIG)	44206045190	Immune globulin gamma (IGG) proline iga 0 to 50 mcg ml	HIZENTRA

Subcutaneous immunoglobulin (SCIG)	44206045202	Immune globulin gamma(IGG)	HIZENTRA
Subcutaneous immunoglobulin (SCIG)	44206045291	Immune globulin gamma (IGG) proline iga 0 to 50 mcg ml	HIZENTRA
Subcutaneous immunoglobulin (SCIG)	44206045404	Immune globulin gamma(IGG)	HIZENTRA
Subcutaneous immunoglobulin (SCIG)	44206045492	Immune globulin gamma (IGG) proline iga 0 to 50 mcg ml	HIZENTRA
Subcutaneous immunoglobulin (SCIG)	44206045510	Immune globulin gamma(IGG)	HIZENTRA
Subcutaneous immunoglobulin (SCIG)	44206045593	Immune globulin gamma (IGG) proline iga 0 to 50 mcg ml	HIZENTRA
Subcutaneous immunoglobulin (SCIG)	00069106101	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	00069106102	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	00069147601	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	00069147602	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	00069150901	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	00069150902	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	00069196501	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	00069196502	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	13533081005	XEMBIFY	XEMBIFY
Subcutaneous immunoglobulin (SCIG)	13533081006	XEMBIFY	XEMBIFY
Subcutaneous immunoglobulin (SCIG)	13533081010	XEMBIFY	XEMBIFY

Subcutaneous immunoglobulin (SCIG)	13533081011	XEMBIFY	XEMBIFY
Subcutaneous immunoglobulin (SCIG)	13533081020	XEMBIFY	XEMBIFY
Subcutaneous immunoglobulin (SCIG)	13533081021	XEMBIFY	XEMBIFY
Subcutaneous immunoglobulin (SCIG)	13533081050	XEMBIFY	XEMBIFY
Subcutaneous immunoglobulin (SCIG)	13533081051	XEMBIFY	XEMBIFY
Subcutaneous immunoglobulin (SCIG)	68982081001	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	68982081002	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	68982081003	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	68982081004	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	68982081005	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	68982081006	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	68982081081	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	68982081082	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	68982081083	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	68982081084	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	68982081085	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	68982081086	CUTAQUIG	CUTAQUIG
Subcutaneous immunoglobulin (SCIG)	00944270002	Immune globulin gamma (igg)	GAMMAGARD LIQUID

and Intravenous immunoglobulin (IVIG)			
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	00944270004	Immune globulin gamma (igg)	GAMMAGARD LIQUID
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	00944270006	Immune globulin gamma (igg)	GAMMAGARD LIQUID
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	00944270007	Immune globulin gamma (igg)	GAMMAGARD LIQUID
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	00944270003	Immune globulin gamma (IGG)	GAMMAGARD LIQUID
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	00944270005	Immune globulin gamma (IGG)	GAMMAGARD LIQUID
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	00944270008	Immune globulin gamma (IGG)	GAMMAGARD LIQUID
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	00944270009	Immune globulin gamma (IGG)	GAMMAGARD LIQUID
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	00944270010	Immune globulin gamma (IGG)	GAMMAGARD LIQUID
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	00944270011	Immune globulin gamma (IGG)	GAMMAGARD LIQUID
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	00944270012	Immune globulin gamma (IGG)	GAMMAGARD LIQUID

Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	00944270013	Immune globulin gamma (IGG)	GAMMAGARD LIQUID
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	13533080012	Immune globulin gamma caprylate (IGG)	GAMUNEX C
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	13533080013	Immune globulin gamma caprylate (IGG)	GAMUNEX C
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	13533080015	Immune globulin gamma caprylate (IGG)	GAMUNEX C
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	13533080016	Immune globulin gamma caprylate (IGG)	GAMUNEX C
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	13533080020	Immune globulin gamma caprylate (IGG)	GAMUNEX C
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	13533080021	Immune globulin gamma caprylate (IGG)	GAMUNEX C
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	13533080024	Immune globulin gamma caprylate (IGG)	GAMUNEX C
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	13533080025	Immune globulin gamma caprylate (IGG)	GAMUNEX C
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	13533080040	Immune globulin gamma caprylate (IGG)	GAMUNEX C
Subcutaneous immunoglobulin (SCIG)	13533080041	Immune globulin gamma caprylate (IGG)	GAMUNEX C

and Intravenous immunoglobulin (IVIG)			
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	13533080071	Immune globulin gamma caprylate (IGG)	GAMUNEX C
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	13533080072	Immune globulin gamma caprylate (IGG)	GAMUNEX C
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	76125090001	Immune globulin gamma caprylate (IGG)	GAMMAKED
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	76125090002	Immune globulin gamma caprylate (IGG)	GAMMAKED
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	76125090010	Immune globulin gamma caprylate (IGG)	GAMMAKED
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	76125090011	Immune globulin gamma caprylate (IGG)	GAMMAKED
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	76125090020	Immune globulin gamma caprylate (IGG)	GAMMAKED
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	76125090021	Immune globulin gamma caprylate (IGG)	GAMMAKED
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	76125090025	Immune globulin gamma caprylate (IGG)	GAMMAKED
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	76125090026	Immune globulin gamma caprylate (IGG)	GAMMAKED

Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	76125090050	Immune globulin gamma caprylate (IGG)	GAMMAKED
Subcutaneous immunoglobulin (SCIG) and Intravenous immunoglobulin (IVIG)	76125090051	Immune globulin gamma caprylate (IGG)	GAMMAKED