

Preparation for Administration
Treatment of Infant Botulism Caused by Toxin Type A or B

2.2 Treatment of Infant Botulism Cau
2.3 Administration
DOSAGE FORMS AND STRENGTHS
CONTRAINDICATIONS
WARNINGS AND PRECAUTIONS

FULL PRESCRIBING INFORMATION: CONTENTS*

BabyBIG, See full These highlights do not include all the information needed to use I [Botulism Immune Globulin Intravenous (Human)], safely and effectively, prescribing information for BabyBIG.

BabyBIC [Botulism Immune Globulin Intravenous (Human) (BIG-IV)] Lyophilized Powder for Reconstitution and Injection Initial U.S. Approval: 2003

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OR CHANGES -	10/2011	04/2009	
RECENT MAJOR CHANGES			
	Dosage and Administration (2)	Warning and Precautions (5)	

BabyBlG is an immune globulin intravenous (human) indicated for: • Treatment of infant botulism caused by toxin types A or B in patients below one year of

age (1).

DOSAGE AND ADMINISTRATION

Intravenous use only

Baby816°, Botulism Immune Globulin Intravenous (Human), is indicated for the treatment of infant botulism caused by toxin type A or B in patients below one year of age.

2 DOSAGE AND ADMINISTRATION

2.1 Preparation for Administration

For Intravenous Use Only

*Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

INDICATIONS AND USAGE

SUPPLIED/STORAGE AND HANDLING

PATIENT COUNSELING INFORMATION

- Recommended dose is 1.5 mL/kg (75 mg/kg) given as a single intravenous infusion (2). Reconstitute in 2 mL Sterile Water for Injection USP and initiate infusion within 2
- Administer Babyisis through a separate intraverous line (2.3).
 Pagin infloxo solvey (0.3 Enfl.&nl.); if no untoward reaction in 15 minutes, increase rate to 1.0 milkgyl (2.2, 2.3).
 DO NOT EXCED THE RECOMMENDED DOSE, CONCENTRATION, AND RATE OF INFLISION

- DOSAGE FORMS AND STRENCTHS.
 Single-use viat of 100 mg ± 20 mg tyophilized immunoglobulin (3)
 Reconstitution as directed results in a Baby816 solution concentration of 50 mg/mL (2.1)
- --- CONTRAINDICATIONS

equivelent.

Percentation the hypothized powder with 2 m. to Sterile Water for injection USP, to obtain a 50 mg/hr. Baby66 solution. A double-anded transfer neede or large syrings is studible for adding the water for exconstitution, while using a double-ended transfer neede, insert one end first into the vial of water. The populitized powder is supplied in an excustated with the otion of the populitized powder is supplied in an excustated via the otion of the resist should transfer by suction (the left of water should be alread to the relativistic into the executated vial, the residual vaccums should be netessed in bissen the transferred into the executated vial, the residual vaccums should be into his base that

- Prior history of severe reaction to other human immunoglobulin preparations (4)
 Selective immunoglobulin A deficiency with anti-IgA antibodies (4)
- WARNINGS AND PRECAUTIONS -
- risk should be nt administration Assess renal function prior to and following administration (5.1, 5.2). Anaphylaxis and hypersensitivity reactions may occur (5.4). This riconsidered when an IgA-deficient patient is to receive subsequent

 - of blood products containing 194 after previous treatment with Babyleiic (4).

 * Phyperpoteniemia, brossasse stem viscosity and phypotentem may occur in patients receiving immune apolutin intervenus (human) (161) finatory (5, 6).

 * Thrombtor bewats have cocurred in patients receiving (181/ products. Monthic patients with known risk actors for thomototic events, consider baseline assessment of blood viscosity for this activities of thyperviscosity (5.7).
 - · Hemolytic anemia can develop subsequent to IGIV therapy due to enhanced RBC
- sequestration (5.8).

 Rolf recipionals should be monitored for pulmonary adverse reactions, such as Translison-releated Audie Lung fujiny (TRALI), (5.9).

 Assplic mentingits syndrome (AMS) has been reported with other (5IV treatment, especially with high doses or rapid infusion (5.5).

 The product is made from furnan plasma and may contain infectious agents, e.g.,
 - viruses and, theoretically, the Creutzfeldt-Jakob disease agent (5.3).

— ADVERSE REACTIONS —

The most common adverse reaction occurring in at least 5% of the patients treated with BabyBlS in a controlled clinical study was mild and transiert erythematous rash of the face or trunk (6.1),

report SUSPECTED ADVERSE REACTIONS, contact the California Department Public Health at 1-510-231-7500 and http://www.infantbotulism.org/ or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

- The passive transfer of antibodies may interfere with the response to live viral vaccines (7). DRUG INTERACTIONS
- For use only in patients below one year of age (8.4)
 Renal impairment: Administer at minimum concentration and rate of infusion (2.3) - USE IN SPECIFIC POPULATIONS

See 17 for PATIENT COUNSELING INFORMATION

Begin infusion slowly, Administer BabyBiG intravenously at 0.5 ml. per kig body weight per hour (70 m/bdg). If 15 minutes, the rate may be increased to 1.0 ml./Agin (50 mg/Agin). D NOT EXCEED THIS ARTIC OF ADMINISTRATION Nambur the patient closely during and after each rate change (see WARMINISTRATION Nambur the patient closely during and after each rate change (see WARMINISTRATION Nambur the St. 3.1). At the recommended rates, infusion of the indicated dose should take 9.5 minutes total elegebet furnee.

Time (minutes)	Rate of 5% Solution	mg/kg/hr
0-15	0.5 mL/kg/h	52
15 to end of infusion	1.0 mL/kg/h	95
As adverse reactions	As adverse reactions experienced by patients treated with immune olobulin intrav	treated with in
(human) (IGIV) produc	(human) (IGIV) products have been related to the infusion rate, if the patient de	the infusion r
a minor side effect (/	a minor side effect (i.e. flushing) slow the rate of infusion or temporarily interru	the of inflision

furnan) ((6N) products have been related to the instition rate, if the patient develops a minor side effect ((s., firshing), slow the rate of infusion or temporarily interrupt the infusion. If anaphytaxis or a significant drop in blood pressure occurs, discontinue the infusion and administer epinephyine.

DOSAGE FORMS AND STRENGTHS

Aseptic Meningitis Syndrome Hyperproteinemia, Hyponatremia, and Serum Viscosity Thrombotic Events 5.1 Patient Municiping for Administration
5.2 Renal Advisors Reactions
5.3 Transmission of Boodo Borne Infectious Agents
5.4 Anathylesis
5.5 Asepto Maningtis Syndrome
5.7 Thrombotic Events
6.8 Hyperpotentiental, Hyponatremia, and Serum Visco
5.7 Thrombotic Events
6.9 Transtission-Related Acute Lung Injury (TRALI)
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6.6 Presturation Experience
6.7 Presturation Experience
6.8 Presturation Experience
6.9 Presturation

100 mg ± 20 mg lyophilized immunoglobulin per single-dose vial

CONTRAINDICATIONS

- As with other immunoglobulin preparations, BabyBiG should not be used in individuals
 with a prof instayr of severe accidio to other human immunoglobulin reparations:
 Individuals with selective immunoglobulin A deficiency have the potential for
 developing antibodies to immunoglobulin A and could have anaphylactic reactions to
 - the subsequent administration of blood products that contain immunoglobulin A.

5 WARNINGS AND PRECAUTIONS

Only administer BabyBlG as an intravenous infusion, since other routes of administration have not been evaluated. Oo not use BabyBlG if the reconstituted solution is turbid [see DASAGE AND ADMINISTRATION [2,1].

5.1 Patient Monitoring for Administration

Patients should be well hydrated prior to the initiation of the BabyBis initision.
 Seases retail funch, including the measurement of broot use managen (Bully or serum creatiline prior to the initial initision of BabyBis (see DOSAGE AMD AMMERSTAND).
 Patients meaning the prior to the initial initision of BabyBis (see DOSAGE AMD AMMERSTAND) incortain to the initial in

5.2 Renal Adverse Reactions

 BabyBIG does not contain a preservative. After reconstitution of the lyophilized product, the vial should be entered only once for the purpose of administration, and the infusion should begin within 2 hours of reconstitution. Remove the tab portion of the vial cap and clean the rubber stopper with 70% alcohol or

Other IGIV products have been reported to be associated with renal dysfunction, acute

renal failure, csmotic nephrosis, and death; **4 While these reports of roal dystanction and acute renal failure. There been associated with the use of many fleensed liGV products, those that contained sucrose as stabilizer and were administered at dialy ossess of 400 mg/kg or greater than accounted for a dispropriate state of the bush rumber. Pleabylist contains sucrose as a stabilizer patents predisposed to acute renal failure include those patents with any degree of pre-existing renal insufficiency, diabetes with any degree of pre-existing renal insufficiency, diabetes relative, volume expletion, sepsis, a spandorelement, or who are receiving known nephrotoxic drugs. Especially in such patients Babylist sould be administered at the minimum concentration available and at the minimum rate of infusion practicable."

Rotate the container gently to wet all the powder. An approximately 30-minute interval should be allowed for dissolving the powder. DO NOT SHAKE THE VIAL, AS THIS WILL SAIDER EDAMING. Inspect BabyBIG visually for particulate matter and discoloration prior to administration. Infuse the solution only if it is colorless, free of particulate matter, and not turbid [see WARNINGS AND PRECAUTIONS (5)]. To prevent the transmission of hepatitis viruses or other infectious agents from one person to another, use sterile disposable syringes and needles. Never reuse syringes

5.3 Transmission of Blood-Borne Infectious Agents
Babbylis is made from human plasma and, like other plasma products, carries
Babbylis is made from human plasma and, like other plasma products, carries
the possibility for transmission of blood-borne virtual agents and, therefore bloodborne virtuals has been reduced by screening plasma donns for prior exposure
to certain viviasis, for the presence of certain virtal intections, and by the virtal
handwidthon and/or moved propellation procedures used for the
putrification of Babylis (see JECS/PIT/DM 11). Despite these measures, some as yet
unexported blood-borne infectious eagents may not be inschaused by the manufacturing
process; therefore, Babylis (like any other blood product should be given only if a benefit
is expected (see PATIFHT COLM)SELING MFT/JNI.

2.2 Treatment of Infant Botulism Caused by Toxin Type A or B

The recommended total cospet of Bayoffs is: 5 m/Ag of 5 m/Ag, given as a single intravenous finding to a proper a period of proper a period by a per

- Serier reactions, such as angloedema and anaphylactic shock, although not observed ouring dinicital trials with Bobble, are a possibility. "If United anaphylaxes may occur even when the patient is not known to be sensitive to immune globulin products. A reaction may be related to the rate of infision; therefore carefully adhere to the infision rates as outlined under "DOSAGE AND ADMINISTRATION (2.3." it magnifystics or a drop in bodo gressure occurs, Giscontinue the infusion and administer phileginnes."
 - Although acute systemic allergic reactions were not seen in clinical trials with Babylo. Springhrime should be available for transment of charce allergic symptoms (See ADDFRER EASTIONS R. J.). Importension cranginybasis cocurs discontinue the administration of Babyglic immediately and give supportive care as reacted. Do not pre-dilute BabyBi6 before infusion.

 Bagin musion within 2 house the reconstitution is complete and conclude within 4 hous of reconstitution. Unless mirston is temporarly inferrupted for adverse seatchin. Monitor Virta Sins confunctory during finiscon.

 • Ammisser BabyBi6 infravenously using low wolume tubing and a constant infusion pump (i.e., an WC pump or quantient throughest pump as sesparate infravenous in it a separate line is not possible, it may be "progradiced" into a pre-existing inter fit in contrains the Soldum Chincille Interioru Digglobacker' into a pre-existing interior without McD added; 2.5% destrose in water. 5% destrose in water is water if the contrains invaried to "Only destrose in water is water in the contrains invaried to "Dig destrose in water is an adversarial plice music be used to not distute BabyBi6 with any other solutions have not been restalated. Use an in-line or systings-tip sterifie, disposable filter (16 µm) for the administration of BabyBi6.

5.5 Aseptic Meningitis Syndrome

An asspic membrals syndrome (AMS) has been reported to occur infrequently in association with first daministration.** The syndrome usually begins within several hours to two days following: several evaluations and syndromic and final syndromic and syndro observed in clinical trials of BabyBIG.

In the absence of prospective data allowing identification of the maximum safe of concentration, and rate of infusion in these patients, D0 NOT EXCEED RECOMMENDED BOSE, CONCENTRATION, AND RATE OF INFUSION.

1.6 thyperproteinemia, Hyponatremia, and Serum Viscosity
Hyperproteinemia, Hyponatremia, and Inseased serum viscosity have been observed
following administration or 16th products. It is clinically critical to distinguish true
phyponatremia from pseudophyporatremia caused by decreased calculated serum
cosmolatily or elevated control grob, because treatment almed at decreasing serum frea
water in patients with pseudophyponatremia may lead to volume depietion, a further
increase in serum viscosity and a higher risk of thromboembolic events. These adverse
events have not been observed with Babp16is.

5.7 Thrombotic Events any occur following IGN treatment. Patients at risk may include those Thrombotic events may occur following IGN treatment. Patients at risk may include those with a history of atherosciencis, multiple randomascular risk factors, advanced age, imparted cardiac output, coagulation disorders, protonged periods of immobilization, and or known or suspected hyperviscosity. Comider backetine assessment of hotory disossity in patients at risk for hyperviscosity, moluting those with cryopoboluris, itasting citylo-imcromeniam/ranketing high trade-pigiverole (triglycerides), or monocional gammopathies. For patients jurged to be at risk of developing thrombotic events, administer Babyelig at the minimum rate of infusion practicable.

5.6 Hemolytic Anemia (IGV proup antibodies, which can act as hemolysits and induce in vivo coating for dibodic cells with immunoglobulin, causing a positive direct amiglobulin reaction and trarely, hemolyses. Hemolytic sename may develop subsequent to IGN therapy due to enhanced red blood cell sequestration. Monitor patients for clinical signs and symptoms of hemolysis. If these are present after BabyBlG infusion, perform appropriate confirmatory laboratory testing.

5.9 Transfusion-Related Acute Lung Injury (TRALI)

Non-cardiogenic pulmonary edema may occur in patients following IGW treatment. $^{\rm DM}$ TRAL is characterized by severe respiratory distress, pulmonary edema, hypoxemia, normal left ventricular function, and fever. Symptoms typically occur within 1 to 6 hours following treatment (See PATIENT COUNSELING INFORMATION (17)).

Monitor patients for pulmonary adverse reactions, if TRALI is suspected, perform appropriate tests for the presence of anti-neutrophil antibodies in both the product and patient serum.

TRALI may be managed using oxygen therapy with adequate ventilatory support.

6 ADVERSE REACTIONS

- Serious adverse reactions were not observed in clinical trials using BabyBlG.
 The most common adverse reaction observed with BabyBlG treatment during clinical
- trials (>5%) was skin rash.

 Other reactions source of nills, muscle cramps, back pain, fewer, nauses, woming, and other reactions source of nills, muscle cramps, back pain fewer, nauses, woming, and wheezing were the most frequent adverse reactions observed during the elinical trials of similarly-prepared human IGW products^{pq}. The incidence of these reactions was less than 5% of all infusions in BagyBIG clinical trials, and these reactions were most often related to infusion rates.

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

Two chinical studies of Baby@IG were performed: (1) an adequate and well-controlled situly to evaluate safety and efficacy of Baby@IG, which used BabyBiG Lot 1, and (2) an open label study to collect additional safety data and confirm efficacy, which used BabyBiG Lot 2 (see Chinical Studies 1/4),"^{14,14} Different menticologies were used to collect abelose sensits in the controlled study and open label study. Minor clinical sevents that were not recorded as adverse events in the controlled study were recorded as adverse events in the controlled study were recorded as adverse events in the controlled study were recorded as adverse events in the controlled study were

The only advesse event considered possibly related to BatyBills administration was a mild, translent enythernatious rash of the face or trunk. The following table summarizes the occurrence of rash by day is study relative to day of treatment for the randomized, controlled cinical trail (RCI) and for the open label study (ICIs).

Day of	Study	æ	RCT	018
Relat	Relative to	Placebo* (N=64)	BabyBIG (N=65)	Baby BIG (N=283)
	1		n (%)	
Jay -5		(0) 0	1 (2)	6(2)
Day -4		2 (3)	1(2)	5 (2)
Day -3		3(5)	4 (6)	6(2)
Jay -2		5 (8)	2(3)	22 (8)
Jay -1		4 (6)	11(17)	28 (10)
Jay 0†	Before‡	5 (8)	9 (14)	32 (11)
	During & Affert	2 (3)	9 (14)	39 (13)
Day +1		2 (3)	1(2)	18 (6)
Jay +2		1 (2)	2 (3)	13 (4)
Jay +3		3 (5)	000	7 (2)
)ay +4		1 (2)	2 (3)	11 (4)
3ay +5		2 (3)	(0) 0	5 (2)

- * Both Gammagard 5% and Gammagard S/D 5% were used as placebo in this study, \uparrow Day 0 is the day of treatment. \ddagger In reference to treatment.
- In the controlled study, when only treatment emergent events are considered, 14% of the Bagylei-brands patient spediemage Hydrandstous rate further study influenced to placebo-treated patients also experienced enthematura rate in this study. A similar rask is known to occur both in infant bothdism gatenets who have not received any IGH products!" and in patients treated with other IGHs any IGH products!" and patients reated with other IGHs any IGH products!" and patients reated with other IGHs and in difficult in asserting the classifier of the ratis."

In the controlled study only, the following adverse events occurred in at least 5% of the patients receiving BabyBIG or placebo:

Adverse Event	BabyBiG N=65	2
with any AE Rash erythematous	9(14)	
Otitis media	7(11)	
Anemia	3(5)	
Hyponatremia	3 (5)	
Hypertension	1(2)	L
Respiratory arrest	1(2)	L
rinary tract infection	1(2)	
O consideration .		L

acebo in this stuch, agard S/D 5% were used

In the open label study only, the following adverse events occurred in at least 5% of the

Adverse Event	BabyBiG N=283
Section Control of the least	N(%)
Patients with Any AE	285 (97)
Blood pressure increased	221 (75)
Dysphagia	190 (65)
rritability	121 (41)
Velectasis	113 (39)
Honchi	100 (34)
Pallor	83 (28)
oose stools	73 (25)
Dermatitis contact	70 (24)
Rash erythematous	64 (22)
Vomiting	58 (20)
Hasal congestion	54 (18)
Edema	54 (18)
Oxygen saturation decreased	51(17)
Pyrexia	51(17)
Body temperature decreased	48 (16)
Blood pressure decreased	47 (16)
Cardiac murmur	45 (15)
Cough	39 (13)
Sales	37 (13)
Abdominal distension	33 (11)
Breath sounds decreased	30 (10)
Dehydration	30 (10)
Agitation	29 (10)
Hemoglobin decreased	27 (9)
Stridor	26 (9)
Lower respiratory tract infection	23 (8)
Oral candidiasis	23 (8)
njection-site reaction	21(7)
achycardia NOS	20(7)
Peripheral coldness	19(7)
Dyspriea NOS	16 (6)
fyponatremia	16 (6)
njection-site erythema	15 (5)
ntubation NOS	15 (5)
Metabolic acidosis	15 (5)
Veurogenic bladder	15 (5)
Anemia	14 (5)
Tachypnea	14 (5)

Averses event ucting was used in the open base study to distinguish between minor clinical events that required no intervention and more significant events that required intervention. For example, "increased blood pressure or decreased blood pressure was assigned when transient changes in board pressure was caspered when transient changes in board pressure was expensively. Was assigned when more prolonged or significant impossibility to the properties of the

6.2 Postmarketing Experience

changes were observed.

Because postmarketing reporting of adverse reactions is voluntary and from a population of uncertain size, it is not always possible to reliably estimate the frequency of these reactions or establish a causal relationship to product exposure.

Experience with Raybald. We adverse reactions have been identified or reported that are ascribed to the use of Bebyldish committees ascribed to the use of Bebyldish consistent with the safety-related information consistent with the safety-related information in the approved product labelling, and no new safety-related information has been presented information has been presented.

Experience with Other IGIV Products. Some classes of adverse reactions that have not been reported in BabyBlG clinical studies or postmarketing experience have been observed with the overall post-approval use of other IGIV products, as shown in the following table.

Respiratory	Apnea, Acute Respiratory Distress Syndrome (ARDS), Transtusion Related Acute Lung Injury (TRALI), cyanosis, hypoxemia, pulmonary edema, dyspnea, bronchospasm
Cardiovascular	Cardiac arrest, thromboembolism, vascular collapse, hypotension
Neurological	Coma, loss of consciousness, seizures, tremor
Integumentary	Steven-Johnson syndrome, epidermolysis, erythema multiforme, bullous dermatitis
Hematologic	Pancytopenia, leukopenia, hemolysis, positive direct antiglobulin (Coombs') test
General / Body as a Whole	Pyrexia, rigors
Musculoskeletal	Back pain
Gastrointestinal	Hepatic dysfunction, abdominal pain

- Admixtures of BabyBls with other drugs have not been evaluated. It is recommended that BabyBls be administered separately from other drugs or medications that the patient may be receiving [see DOSAGEAND ADMINISTRATION (2)].
 - Antibodies present in immune globulin preparations may interfere with the immune response to live visus vacchers such as a polic, measus, murings, and rubella; THEREORE, WCCIANTON WITH LIVE NIBS WACCHARS SUBJULD BE DEFERBED UNIT.
 APPROXIMATELY THREE OR MORE MONTHS AFTER ADMINISTRATION OF BabyglG.
 Such avorations were upower southly before or after BabyglG administration, revaccination may be necessary.

USE IN SPECIFIC POPULATIONS

8.4 Pediatric Use

BabyBlG has been studied for safety and efficacy only in patients below one year of age [see ADVERSE REACTIONS (6) and CLINICAL STUDIES (14)]. It has not been tested in other

Although limited data are available, clinical experience with other immunoglobulin preparations suggests that the major manifestations would be those related to volume overload.⁽¹⁾

DESCRIPTION

BabyBiG, Botulism Immune Globulin Intravenous (Human) (BIG-Ny, is a solvent-deeplagen-freated, stellar, lyphibited powder of immunologobulin (6 (196). stabilized with 5% sucrose and 1% albumin fluman). It contains no preservative. The purified immunogobulin is derived from probled adult pasens from presence who were immunized with pentavelenet botulium toxoid and selected for their high tites of neutraling antibody against boulinum neutrobxins type A and B. All donors were tessel and their sera found to be negative for antibodies against the human immunodeficiency virus and the hepatitis B and hepatitis C viruses.

The pooled plasma was fractionated by cold ethanol precipitation of the proteins according to Chindhorde burkot, modified by their a proteins administration. "And Sewara Steps in the manufacturing to costs of saving the wall steps in the manufacturing to see the save been wallicated to the fability to inactivate or remove viruses that may not have been detected in the Source Plasma." Sexus of the plasma is sexus.

These include Cohn/Ondey fractionation (Faction I through Supernatiant III Filtratie), hand/instruction from loan for Wo Sa-yan filters; and solventidetergrant viral machinitation finding ione 15-na mat who Sa-yan distance in a series of in withor experiments for their capacity to instructivate and/or serious Human immunodericency Virus type I (HV-I) and the following model viruses bowne viral diarrhae wirus (BVDy) as a model for frequency can procure of the process of the process

		W	tean Reduction Factor (log _{1,0}	Factor (log	9	
Process Step		Emm	Enveloped Viruses (size in nm)		Non-Enveloped Viruse (size in nm)	oed Viruses n nm)
9	Sindbis (60-70)	HIV-1 (80-100)	PRV (120-200)	8VDV (40-60)	MEMV (22-30)	FCV (35-39)
Cohn/Oncley fractionation	9.9	> 9.44	> 10.37	6.25	4.06	Not done
Nanotification	> 6.84	Not done	Not done	≥5.4	Not done	> 6.92
Solvent/detergent treatment	Not done	> 4.51	> 5.53	> 4.85	0.57*	Not done
Cumulative Reduction Factor (log.,)	>13.44	> 13.95	> 15.9	≥ 16.5	4.63	≥ 6.92

Additional testing performed with bovine panovirus (as a model for parvovirus 819) stowed a mane cumulative reduction factor of geater than 7.34 log₂, for Confortion factoristic and solventidetecgost restinater followed by hydrophobic chromatography. A mean cumulative reduction factor of 2.55 log₂, was observed for removal of promise parvovirus by nanofiltration. When reconstituted with Strain Water for higheston (SP each cubic continuest (milliter) contains approximately 50.2 ± 10 mg immunoglebulin primarily lig. and trace amounts (BA and 19M; 50 mg sucrose; 10 mg albumin (human), and approximately 50, as south in the excessituted souther should should approximately 50, as souther mise excessituted souther should should should be approximately 50, as you have should be approximately 50 mg sucroses.

CLINICAL PHARMACOLOGY 12

Baby816 contains 1g6 antibodies from the immunized donors who contributed to the pleans not form which the potod to well be plean to do attoblose in the reconstituted product against type A bothlum boxin is at least 15 LIVII. and against type B took in the season of t levels of circulating neurotoxin.114, 391

12.1 Mechanism of Action

BabyBIG contains antibodies specific for botulinum neurotoxin types A and B that bind to and neutralize circulating toxin types A and B in the patient.

12.2 Pharmacodynamics Formal studies on pharmacodynamics have not been conducted with BabyBIG.

Traditional pharmacoxinotic studies of BabyBlG have not been performed. However, the following table summarizes the mean serum titer of the anti-A component of BabyBlG following administration. 12.3 Pharmacokinetics

BabyBiG Lot 2 Anti-A Titer (mean ± S.D.)	mL.	537.1 ± 213.4	192.2 ± 71.2	155.5 ± 56.7	96.0 ± 33.2	61.4 ± 32.3	33.0 ± 22.3	
BabyBiG Lot 1 Anti-A Titer (mean ± S.D.)	mlU/ml	Not done	106.7 ± 44.6	90.0 ± 39.2	54.9 ± 22.8	26.0 ± 20.5	15.6 ± 10.4	**
Time		Day 1	Week 2	Week 4	Week 8	Week 12	Week 16	100

Week 20 7.6 ± 6.6 19.3 ± 14.1 NOTE: 1 IU of anti-type A or anti-type B antibody neutralizes. by definition, 10° mouse LD $_\omega$ of botulinum toxin.

The half-life of injected Baby9lG has been shown to be approximately 28 days in infants, $^{\rm IM}$ which is in agreement with existing data for other immunoglobulin preparations, $^{\rm EM}$

CLINICAL STUDIES

Two clinical studies in infant botulism were performed: (1) an adequate and well-controlled study to evaluate the starily and efficiency (Babbild (14-25) and 10,3 no open label study to collect additional stately data and confirm efficacy (N=29). In the adequate and well-controlled chinical study, BabyellS, given within the first 3 days of hospital admission to 59 patients with aboratory-confirmed infant botulism, has been shown to reduce the following.

	Average Londin in Mank	with in Weake	
	VALUE OF DEAL	AND BY MARKE	
	Placebo* N=63	Baby8IG N=59	p-value
lospital stay	5.7	2.6	p<0.0001
ntensive Care Unit stay	3.6	1.3	p<0.01
fechanical ventilation	2.4	0.7	30.000

study. Both Gammagard 5% and Gammagard S/D 5% were used as placebo in this

Length of hospital stay was also analyzed by patient age in both the adequate and ill-controlled study and in an open label study.

	Mean Length	Mean Length of Hospital Stay in Weeks	Weeks
Age (days)	Placebo* N=63	BabyBiG (RCT) N=59	BabyBiG (OLS) N=206
09-0	3.8 (N=10)	2.8 (N=10)	2.0 (N=46)
61-120	5.6 (N=29)	1.9 (N=17)	2.0 (N=68)
>120	6.6 (N=24)	3.0 (N=32)	1.8 (N=92)

The observed reduction in length of hospital stay was statistically significant (p<0.01) with the exception of the 0 to 60-day age stratum, where small patient numbers limited the statistical power. = randomized clinical trial = open label study

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DACE	Mean Length of He	Mean Length of Hospital Stay in Weeks
TOWN.	Placebo*	BabyBlg (RCT)
UR.D.	6.3	2.8
WHILE	(N=40)	(N=35)
Hon subilia	4.6	2.4
MOII-WILLE	(N=23)	(N=24)

Length of hospital stay was significantly reduced in both white and non-white patients BabyBIG has not been tested for safety and efficacy in adults.

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16 HOW SUPPLIED/STORAGE AND HANDLING

 $\bullet\,$ NDC 68403-1100-6, 100 mg $\pm\,20$ mg lyophilized immunoglobulin single-dose vial individually packaged in a carton, supplied with 2 mL Sterile Water for Injection USP for

Store the vial containing the lyophilized product between 2° and 8°C (85.6° to 46.4°F).
 Do not store BaygilG in the reconstituted state.
 Use reconstituted sabgliG with 2 hours.
 Use reconstituted sabgliG with 2 hours.
 Do not use beyond expiration date, and stipose unused product in accordance with.

local requirements.

PATIENT COUNSELING INFORMATION

Discuss the risks and benefits of Babyölö use with the patient's legal guardians, including the possibility of adverse reactions, a.y., hippersensitivity reactions such as analytivats, as well as aseptic meninglis. TFALI, hemoysis, renal failure, and thrombosis [see WARAWIGS AND PRECAUTIONS (5).
 Inform patient's lagal guardians that Babyölö is melle from human plasma and may contain infections agents that can cause desesse. While the risk of transmitting an infection has been reacted by screening beam domors for prior exposure, itsisting donated plasma, and hackvaling or removing certain vituses during manufacturing, the patient's guardian should report any symptoms that concern them gee MARAWINS AND PRECAUTIONS (5.3).
 Inform patient's legal guardians that babyölö may interfere with immune response to like variat vaccines (e.g., MARI) and Instruct them to notify the healthcare provider of this potential interaction when the patient is to receive vaccinations (see DRUG WITFEACTIONS (7)).

For additional information concerning BabyBIG, contact

infant Botulism Treatment and Prevention Program California Department of Public Health 850 Marina Bay Parkway, Room E-361 Richmond, California 98004 Telephone: 510-231-7600 US Govt. License No. 1797

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