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2 EMA/CHMP/BPWP/143744/2011 rev.2
3 Committee for Medicinal Products for Human Use (CHMP)

4 **Guideline on core SmPC for human normal**
5 **immunoglobulin for subcutaneous and intramuscular**
6 **administration (SCIg/IMIg)**
7 **Draft**

Draft agreed by Haematology Working Party	25 October 2024
Adopted by CHMP for release for consultation	2 December 2024
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8
9 This guideline replaces 'Guideline on core SPC for human normal immunoglobulin for subcutaneous and
10 intramuscular administration' (EMA/CHMP/BPWP/143744/2011 rev.1).

11
12 Comments should be provided using this [EUSurvey form](#). For any technical issues, please contact
the [EUSurvey Support](#).

Keywords	<i>SCIg, IMIg, human normal immunoglobulin, primary and secondary immunodeficiency syndromes, hepatitis A prophylaxis, immunomodulation, chronic inflammatory demyelinating polyradiculoneuropathy (CIDP).</i>
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14 Guideline on core SmPC for human normal
15 immunoglobulin for subcutaneous and intramuscular
16 administration (SCIg/IMIg)

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46 **Executive summary**

47 This guideline describes the information to be included in the Summary of Product Characteristics
48 (SmPC) for human normal immunoglobulins for subcutaneous and/or intramuscular administration
49 (SCIg/IMIg).

50 **1. Introduction (background)**

51 The purpose of this core SmPC is to provide applicants and regulators with harmonised guidance on the
52 information to be included in the Summary of product characteristics (SmPC) for a human normal
53 immunoglobulin for subcutaneous and/or intramuscular administration (SCIg/IMIg). The choice of text
54 will depend on whether the product is for both subcutaneous and intramuscular administration or only
55 one of these routes. This guideline should be read in conjunction with the current version of the
56 Guideline on the clinical investigation of human normal immunoglobulin for subcutaneous and
57 intramuscular administration (EMA/CHMP/BPWP/410415/2011 rev 2).

58 The Quality Review of Documents (QRD) product information template with explanatory notes (QRD PI
59 annotated template¹) and the QRD convention to be followed for the EMA-QRD templates² provide
60 general guidance on format and text and should be read in conjunction with the core SmPC and the
61 Guideline on summary of product characteristics³.

62 This core SmPC has been prepared based on SmPCs of authorised medicinal products and considering
63 the published scientific literature. Any marketing authorisation application or variation of a marketing
64 authorisation for a human normal immunoglobulin should be accompanied by the required data
65 particulars, documents, literature and/or justification for the application to be valid.

66 For parenteral products such as SCIg and IMIg, practical information relevant for healthcare
67 professionals, especially the posology and method of administration, should be included at the end of
68 the package leaflet since the SmPC is not always readily available (see the QRD annotated template for
69 further guidance on how to present such information).

70 In addition, for the content of sections 4.4 and 4.8 concerning transmissible agents, refer to the
71 current version of the Guideline on the warning on transmissible agents in SmPCs and package leaflets
72 for plasma-derived medicinal products (EMA/CHMP/BWP/360642/2010 current version⁴).

73 This revision (2024) includes updates to the guideline to be consistent where applicable with the
74 revised Guideline on core SmPC for human normal immunoglobulin for intravenous administration
75 (IVIg) (EMA/CHMP/BPWP/94038/2007 Rev. 6)⁵ and the inclusion of the indication for chronic
76 inflammatory demyelinating polyradiculoneuropathy (CIDP).

77 **2. Scope**

78 This core SmPC covers human normal immunoglobulin for subcutaneous and intramuscular
79 administration (SCIg/IMIg) defined by the relevant European Pharmacopoeia monographs. It does not
80 apply to products intentionally prepared to contain fragmented or chemically modified IgG.

¹ https://www.ema.europa.eu/en/documents/template-form/grd-product-information-annotated-template-english-version-104-highlighted_en.pdf

² https://www.ema.europa.eu/en/documents/regulatory-procedural-guideline/quality-review-documents-grd-convention-be-followed-european-medicines-agency-grd-templates_en.pdf

³ https://health.ec.europa.eu/system/files/2016-11/smpc_guideline_rev2_en_0.pdf

⁴ [Guideline on transmissible agents in SmPC - plasma-d products 2010 \(europa.eu\)](https://www.ema.europa.eu/en/documents/scientific-guideline/guideline-core-smpc-human-normal-immunoglobulin-intravenous-administration-ivig-rev-6_en.pdf)

⁵ https://www.ema.europa.eu/en/documents/scientific-guideline/guideline-core-smpc-human-normal-immunoglobulin-intravenous-administration-ivig-rev-6_en.pdf

81 **3. Legal basis**

82 This guideline has to be read in conjunction with Article 11 of Directive 2001/83/EC as amended, and
83 the introduction and general principles (4) and part I of the Annex I to Directive 2001/83/EC as
84 amended.

85 **4. References**

- 86 European Academy of Neurology/Peripheral Nerve Society guideline on diagnosis and treatment of
87 chronic inflammatory demyelinating polyradiculoneuropathy: Report of a joint Task Force—Second
88 revision Peter Y. K. Van den Bergh et al First published: 30 July 2021
89 <https://doi.org/10.1111/ene.14959>
- 90 European Federation of Neurological Societies/Peripheral Nerve Society guideline on management of
91 multifocal motor neuropathy. Report of a joint task force of the European Federation of Neurological
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95 MMN J.-M. Léger. *Clinical and Experimental Immunology*, 178: 42–44; doi:10.1111/cei.12505
- 96 Subcutaneous immunoglobulins in the treatment of chronic immune-mediated neuropathies Verena I.
97 Leussink et al. *Ther Adv Neurol Disord* 2016, Vol. 9(4) 336–343; DOI: 10.1177/1756285616641583
- 98 Treatment of patients with multifocal motor neuropathy with immunoglobulins in clinical practice: the
99 SIGNS registry Martin Stangel et al. *Ther Adv Neurol Disord* 2016, Vol. 9(3) 165–179 DOI:
100 10.1177/1756285616629869
- 101 Diagnosis and management of Guillain–Barré syndrome in ten steps; EVIDENCE- BASED GUIDELINES
102 Sonja E. Leonhard et al. *Nat Rev Neurol.* 2019 Nov;15(11):671-683;https://doi.org/10.1038/s41582-
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- 104 Updated international consensus report on the investigation and management of primary immune
105 thrombocytopenia Drew Provan et al. *Blood Adv.* 2019 Nov 26;3(22):3780-3817. doi:
106 10.1182/bloodadvances.2019000812
- 107 Recommendations for the Clinical Approach to Immune Thrombocytopenia: Spanish ITP Working Group
108 (GEPTI) Mingot-Castellano, M.E.et al. *J. Clin. Med.*2023, 12, 6422.
109 <https://doi.org/10.3390/jcm12206422>
- 110 Recommendations for the management of acute immune thrombocytopenia in children. A Consensus
111 Conference from the Italian Association of Pediatric Hematology and Oncology Giovanna Russo et al.
112 *Blood Transfus.* 2023 Jul 27. doi: 10.2450/BloodTransfus.501
- 113 European consensus-based recommendations for the diagnosis and treatment of Kawasaki disease -
114 the SHARE initiative Nienke de Graeff et al. *Rheumatology* 2019;58:672-682
115 doi:10.1093/rheumatology/key344
- 116 Kawasaki Disease: an Update Eileen Rife et al. *Current Rheumatology Reports* (2020) 22:75
117 <https://doi.org/10.1007/s11926-020-00941-4>
- 118 Effectiveness and Safety of an Intravenous Immune Globulin (IVIG) Preparation in Post-exposure
119 Prophylaxis (PEP) Against Measles in Infants Benno Kohlmaier et al. *Front. Pediatr.* 9:762793.
120 doi: 10.3389/fped.2021.762793

- 121 Clinical experience of intramuscular immunoglobulin for measles prophylaxis in children: Is it practical?
122 Leanne Philips et al. Journal of Paediatrics and Child Health 56 (2020) 364–366 doi:10.1111/jpc.14800
- 123 Fachliche Anwendungshinweise zur Masern-Postexpositionsprophylaxe bei Risikopersonen
124 Stellungnahme der Ständigen Impfkommission (STIKO) am RKI; Epidemiologisches Bulletin 12. Januar
125 2017 / Nr. 2

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ANNEX I
SUMMARY OF PRODUCT CHARACTERISTICS

150 <▼ This medicinal product is subject to additional monitoring. This will allow quick identification of
151 new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See
152 section 4.8 for how to report adverse reactions.> [For medicinal products subject to additional monitoring
153 ONLY]
154

155 **1. NAME OF THE MEDICINAL PRODUCT**

156
157 {(Invented) name strength pharmaceutical form}
158

159
160 **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

161 Human normal immunoglobulin (<SCIg> <and> <IMIg>)

162
163
164 *[Product-specific information on quantitative composition. Include: IgG subclasses, human protein*
165 *content and minimum content of IgG, maximum IgA content]*
166

167 One ml contains:

168 Human normal immunoglobulin.....{X} mg
169 (purity of at least {XX}% IgG)

170
171 Each {container e.g. vial} of {xx} ml contains: {X} g of human normal immunoglobulin

172
173 <Antibodies to Hepatitis A at least {x} IU/ml>

174
175 Distribution of the IgG subclasses (approx. values):

176 IgG1 {XX.X}%

177 IgG2 {XX.X}%

178 IgG3 {XX.X}%

179 IgG4 {XX.X}%
180

181 The maximum IgA content is {x} micrograms/ml.

182
183 Produced from the plasma of human donors.

184
185 <Excipient(s) with known effect>

186
187 <For the full list of excipients, see section 6.1.>
188
189

190 **3. PHARMACEUTICAL FORM**

191
192 *[Product specific, including osmolality]*
193
194

195 **4. CLINICAL PARTICULARS**

196
197 **4.1 Therapeutic indications**

198
199 *[Age ranges given in this section may require modification if there are any safety issues for the excipients*
200 *used for a particular product e.g. sorbitol risk for babies and young children with hereditary fructose*
201 *intolerance.]*
202

203 Indications for subcutaneous administration (SCIg)

204
205 Replacement therapy in adults, children and adolescents (0-18 years) in:

- 206 • Primary immunodeficiency syndromes (PID) with impaired antibody production (see section 4.4).
207 • Secondary immunodeficiencies (SID) in patients who suffer from severe or recurrent infections,
208 ineffective antimicrobial treatment and either proven specific antibody failure (PSAF)* or serum
209 IgG level of <4g/l.

210

211 *PSAF = failure to mount at least a 2-fold rise in IgG antibody titre to pneumococcal polysaccharide and
212 polypeptide antigen vaccines.

213

214 Immunomodulation in adults, children and adolescents (0–18 years) in chronic inflammatory
215 demyelinating polyradiculoneuropathy (CIDP) as maintenance therapy after stabilisation with IVIg.

216

217 <Indications for intramuscular administration (IMIg)

218

219 *[Product-specific for SC/IMIg with a minimum antibody content for HAV of 100 IU/ml:]*

220

221 *Hepatitis A prophylaxis*

222

223 In adults and children and adolescents (0-18 years)

224 • Pre-exposure prophylaxis, preferably in combination with vaccination, in unvaccinated individuals
225 travelling in less than 2 weeks to areas at risk of hepatitis A.

226 • Post-exposure prophylaxis in unvaccinated individuals within 2 weeks of hepatitis A virus (HAV)
227 exposure.

228

229 For long-term hepatitis A prophylaxis, vaccination is recommended. >

230

231 <Consideration should also be given to other official guidance on the appropriate use in hepatitis A
232 prophylaxis.>

233

234 *[For product-specific immunomodulatory indications - see current version of the Guideline on the clinical
235 investigation of human normal immunoglobulin for subcutaneous and/or intramuscular administration
236 (EMA/CHMP/BPWP/410415/2011 rev 2). These product-specific indications should state in which age
237 groups the product is indicated, specifying the age limits, e.g. 'X is indicated in
238 <adults><neonates><infants><children> <adolescents> <aged x to y <years, months>>.]*

239

240 **4.2 Posology and method of administration**

241

242 Replacement therapy should be initiated and monitored under the supervision of a physician experienced
243 in the treatment of immune system disorders.

244

245 Posology

246

247 The dose and dose regimen are dependent on the indication.

248

249 *Replacement therapy*

250 The medicinal product should be administered via the subcutaneous route.

251

252 In replacement therapy, the dose may need to be individualised for each patient depending on the
253 pharmacokinetic and clinical response.

254 <This medicinal product can be administered at regular intervals from once daily up to every other week.>

255 The following dose regimens are given as a guideline.

256

257 *Replacement therapy in primary immunodeficiency syndromes (see section 4.1)*

258 The dose regimen should achieve a trough level of IgG (measured before the next infusion) of at least 5 to

259 6 g/l and aim to be within the reference interval of serum IgG for age. A loading dose of at least 0.2 to 0.5
260 g/kg (1.2 to 3.0 ml/kg) body weight may be required. This may need to be divided over several days, with
261 a maximal daily dose of 0.1 to 0.15 g/kg.
262

263 After steady state IgG levels have been attained, maintenance doses are administered at repeated intervals
264 to reach a cumulative monthly dose of the order of 0.4-0.8 g/kg (2.4 to 4.8 ml/kg). Each single dose may
265 need to be injected at different anatomic sites.

266 Trough levels should be measured and assessed in conjunction with the incidence of infection. To reduce
267 the rate of infection, it may be necessary to increase the dose and aim for higher trough levels.
268

269 *Replacement therapy in secondary immunodeficiencies (see section 4.1.)*

270 The recommended dose administered at regular intervals (approximately once per week) is to reach a
271 cumulative monthly dose of the order of 0.2-0.4 g/kg (1.2 – 2.4 ml/kg). Each single dose may need to be
272 injected at different anatomic sites.

273 IgG trough levels should be measured and assessed in conjunction with the incidence of infection. The
274 dose should be adjusted as necessary to achieve optimal protection against infections; an increased dose
275 may be required in patients with persisting infection, and a decreased dose can be considered when the
276 patient remains infection free.
277

278 *<Hepatitis A prophylaxis*

279 The product should be administered via the intramuscular route.
280

281 To achieve a minimum protective level of 10 mIU/ml with an IMIg with a minimum antibody content for
282 HAV of 100 IU/ml, the following dose is recommended:
283

284 - Pre-exposure prophylaxis in unvaccinated individuals travelling in less than 2 weeks to areas of hepatitis
285 A risk (short term prophylaxis):

286 For stays in endemic areas of less than 3 months: 0.17 ml/kg body weight (preferably given in
287 combination with vaccination).
288

289 - Post-exposure prophylaxis in unvaccinated individuals within 2 weeks of exposure: 0.17 ml/kg body
290 weight.>
291

292 *Immunomodulatory therapy in CIDP*

293 Treatment is initiated 1 week after the last IVIg infusion. The recommended subcutaneous dose is 0.2 to
294 0.4 g/kg body weight per week administered in 1 or 2 sessions over 1 or 2 consecutive days. The initial
295 subcutaneous dose may be a 1:1 conversion from the previous IVIg dose (calculated as weekly dose).
296 Example: a 1 g/kg IVIg dose given every 3 weeks would convert into a 0.33 g/kg dose given once a week.
297 The weekly dose can be divided into smaller doses and administered by desired number of times per week.
298 For dosing every two weeks, the weekly dose should be doubled.
299

300 *Elderly*

301 No dose adjustment is required unless clinically warranted (see section 4.4).
302

303 *Hepatic impairment*

304 No evidence is available to require a dose adjustment.
305

306 *Renal impairment*

307 No dose adjustment is required unless clinically warranted (see section 4.4).
308

309 *Paediatric population*

310 The posology in children and adolescents (0-18 years) is not different to that of adults as the posology for
311 each indication is given by body weight and adjusted to the clinical outcome of the above-mentioned
312 conditions.

313 Method of administration

314

315 For subcutaneous use <only>.

316

317 Subcutaneous infusion for home treatment should be initiated and monitored by a physician experienced
318 in the guidance of patients for home treatment. The patient must be instructed in the use of a syringe
319 driver, the infusion techniques, the keeping of treatment diary, recognition of and measures to be taken in
320 case of severe adverse reactions.

321

322 {(Invented) name} may be injected into sites such as abdomen, thigh, upper arm, and lateral hip.

323 It is recommended to use an initial administration speed of {XX} mL/kg/hr.

324 If well tolerated (see section 4.4), the infusion speed can be enhanced by {YY} mL/kg/hr every
325 subsequent infusion. The recommended maximum speed is {ZZ} mL/kg/hr. More than one pump can be
326 used simultaneously. The amount of product infused into a particular site varies. In infants and children,
327 infusion site may be changed every 5-15 ml. In adults, doses over 30 ml may be divided according to
328 patient preference. There is no limit to the number of infusion sites.

329

330 <For intramuscular use.>

331 <Intramuscular injection must be given by a physician or nurse.>

332

333 **4.3 Contraindications**

334

335 Hypersensitivity to the active substance (human immunoglobulin) or to any of the excipients (see sections
336 4.4 and 6.1). [*Product-specific contraindications*].

337 {(Invented) name} must not be given intravascularly.

338

339 It must also not be administered intramuscularly in case of severe thrombocytopenia and in other disorders
340 of haemostasis.

341

342 **4.4 Special warnings and precautions for use**

343

344 [*In addition to the text below, include any additional product-specific precautions for use and warnings*
345 *(e.g. those relating to excipients present in the product).*]

346

347 Traceability

348

349 In order to improve the traceability of biological medicinal products, the name and the batch number of
350 the administered product should be clearly recorded.

351

352 Precautions for use

353

354 If {(Invented) name} is accidentally administered into a blood vessel, patients could develop shock.

355 The recommended infusion rate must be closely followed (see section 4.2). Patients must be closely
356 monitored and carefully observed for any symptoms throughout the infusion period.

357

358 Certain adverse reactions may occur more frequently in patients who receive human normal
359 immunoglobulin for the first time or, in rare cases, when the human normal immunoglobulin product is
360 switched or when there has been a long interval since the previous infusion.

361

362 Potential complications can often be avoided by ensuring that patients:

363 • are not sensitive to human normal immunoglobulins by initially injecting the product slowly (see
364 section 4.2);

365 • are carefully monitored for any symptoms throughout the infusion period. In particular, patients
366 naïve to human normal immunoglobulin, patients switched from an alternative immunoglobulin

367 product or when there has been a long interval since the previous infusion should be monitored
368 during the first infusion and for the first hour after the first infusion in a controlled healthcare
369 setting in order to detect potential adverse signs and to ensure that emergency treatment can be
370 administered immediately should problems occur.

371 All other patients should be observed for at least 20 minutes after administration.

372

373 In case of adverse reaction, either the infusion rate must be reduced or the infusion stopped. The treatment
374 required depends on the nature and severity of the adverse reaction.

375

376 Hypersensitivity

377

378 Hypersensitivity reactions are rare. They can particularly occur in patients with anti-IgA antibodies who
379 should be treated with particular caution. Patients with anti-IgA antibodies, in whom treatment with
380 subcutaneous IgG products remains the only option, should be treated with {(Invented) name} only under
381 close medical supervision.

382 Rarely, human normal immunoglobulin can induce a fall in blood pressure with anaphylactic reaction,
383 even in patients who had tolerated previous treatment with human normal immunoglobulin.

384 In case of shock, standard medical treatment for shock should be implemented.

385

386 Thromboembolism

387

388 Arterial and venous thromboembolic events including myocardial infarction, cerebral vascular accident
389 (including stroke), deep vein thrombosis and pulmonary embolism have been associated with the use of
390 immunoglobulins. Patients should be sufficiently hydrated before use of immunoglobulins. Caution should
391 be exercised in patients with preexisting risk factors for thrombotic events (such as advanced age,
392 hypertension, diabetes mellitus and a history of vascular disease or thrombotic episodes, patients with
393 acquired or inherited thrombophilic disorders, patients with prolonged periods of immobilisation, severely
394 hypovolemic patients, patients with diseases which increase blood viscosity).

395

396 Patients should be informed about first symptoms of thromboembolic events including shortness of breath,
397 pain and swelling of a limb, focal neurological deficits and chest pain and should be advised to contact
398 their physician immediately upon onset of symptoms.

399

400 *[For SCIg products, include the following warning:]*

401

402 <Aseptic meningitis syndrome (AMS)

403

404 Aseptic meningitis syndrome has been reported to occur in association with subcutaneous
405 immunoglobulin treatment; the symptoms usually begin within several hours to 2 days following
406 treatment. Discontinuation of immunoglobulin treatment may result in remission of AMS within several
407 days without sequelae.

408 Patients should be informed about first symptoms which encompass severe headache, neck stiffness,
409 drowsiness, fever, photophobia, nausea, and vomiting.>

410

411

412 Interference with serological testing

413

414 After injection of immunoglobulin the transitory rise of the various passively transferred antibodies in the
415 patient's blood may result in misleading positive results in serological testing.

416 Passive transmission of antibodies to erythrocyte antigens, e.g. A, B, D may interfere with some

417 serological tests for red cell antibodies for example the direct antiglobulin test (DAT, direct Coombs' test).

418

419 Transmissible agents

420

421 *[The text to be inserted here for transmissible agents should be in accordance with the current version of*
422 *the guideline on the Warning on Transmissible Agents in SmPCs and Package Leaflets for plasma-derived*
423 *medicinal products (EMA/CHMP/BWP/360642/2010) rev. 1.]*

425 Paediatric population

426
427 *[Product specific]*

428 <The listed warnings and precautions apply both to adults and children.>

430 **4.5 Interaction with other medicinal products and other forms of interaction**

432 Live-attenuated virus vaccines

433
434 Immunoglobulin administration may impair for a period of at least 6 weeks and up to 3 months the
435 efficacy of live attenuated virus vaccines such as measles, rubella, mumps and varicella. After
436 administration of this medicinal product, an interval of 3 months should elapse before vaccination with
437 live-attenuated virus vaccines. In the case of measles, this impairment may persist for up to 1 year.
438 Therefore patients receiving measles vaccine should have their antibody status checked.

440 Paediatric population

441
442 *[Product specific]*

443 <The listed interactions apply both to adults and children.>

445 **4.6 Fertility, pregnancy and lactation**

447 Pregnancy

448
449 The safety of this medicinal product for use in human pregnancy has not been established in controlled
450 clinical trials. Therefore, this product should only be given with caution to pregnant women.
451 Immunoglobulin products have been shown to cross the placenta, increasingly during the third trimester.
452 Clinical experience with immunoglobulins suggests that no harmful effects on the course of pregnancy, or
453 on the foetus and the neonate are to be expected.

455 Breast-feeding

456
457 The safety of this medicinal product for use during lactation has not been established in controlled clinical
458 trials. Therefore, this product should only be given with caution during breast-feeding.
459 Immunoglobulins are excreted into human milk.
460 No adverse effects on the breastfed newborn/infant are anticipated.

462 Fertility

463
464 Clinical experience with immunoglobulins suggests that no harmful effects on fertility are to be expected.

466 *[Any relevant product-specific information should be added.]*

468 **4.7 Effects on ability to drive and use machines**

469
470 The ability to drive and operate machines may be impaired by some adverse reactions associated with
471 {(Invented) name}. Patients who experience adverse reactions during treatment should wait for these to
472 resolve before driving or operating machines.

474 **4.8 Undesirable effects**

475

476 Summary of the safety profile

477

478 *[Frequencies of adverse reactions cited in the summary of safety profile should be stated as accurately as*
479 *possible; please include incidence in brackets, if available.]*

480

481 Adverse reactions such as chills, headache, dizziness, fever, vomiting, allergic reactions, nausea,
482 arthralgia, low blood pressure and moderate low back pain may occur occasionally.

483

484 Rarely human normal immunoglobulins may cause a sudden fall in blood pressure and, in isolated cases,
485 anaphylactic shock, even when the patient has shown no hypersensitivity to previous administration.

486

487 Local reactions at infusion sites, such as swelling, soreness, redness, induration, local heat, itching,
488 bruising and rash, may frequently occur.

489

490 For safety information with respect to transmissible agents, see section 4.4.

491

492 Tabulated list of adverse reactions

493

494 Adverse reactions from <clinical trials><post-authorisation safety studies><spontaneous reporting> are
495 listed by MedDRA system organ classification (SOC and Preferred Term Level) in the table below.

496

497 Frequencies have been evaluated according to the following convention: very common ($\geq 1/10$); common
498 ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1\ 000$ to $< 1/100$); rare ($\geq 1/10\ 000$ to $< 1/1\ 000$); very rare ($< 1/10\ 000$),
499 not known (cannot be estimated from the available data).

500

501 <Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.>

502

MeDRA System Organ Class (SOC)	Adverse reaction	Frequency per patient	Frequency per infusion
		<Very common> <common> <uncommon> <rare> <very rare> <unknown>	<Very common> <common> <uncommon> <rare> <very rare> <unknown>

503

504 Description of selected adverse reactions

505

506 *[Product specific. If the safety profile is different depending on the route of administration, the differences*
507 *should be mentioned here.]*

508

509 Paediatric population

510

511 *[Product specific]*

512 <Frequency, type and severity of adverse reactions in children are <expected to be> the same as in
513 adults.>

514

515 <Other special population(s)>

516

517 Reporting of suspected adverse reactions

518

519 Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows
520 continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are
521 asked to report any suspected adverse reactions via the national reporting system listed in [Appendix V](#).

522 **4.9 Overdose**

523

524 <Consequences of an overdose are not known.>

525

526

527 **5. PHARMACOLOGICAL PROPERTIES**

528

529 **5.1 Pharmacodynamic properties**

530

531 Pharmacotherapeutic group: immune sera and immunoglobulins, immunoglobulins, normal human, ATC
532 code: J06BA01

533

534 Human normal immunoglobulin contains mainly immunoglobulin G (IgG) with a broad spectrum of
535 antibodies against infectious agents.

536 Human normal immunoglobulin contains the IgG antibodies present in the normal population. It is usually
537 prepared from pooled plasma from not fewer than 1000 donations. It has a distribution of immunoglobulin
538 G subclasses closely proportional to that in native human plasma. Adequate doses of this medicinal
539 product may restore abnormally low immunoglobulin G levels to the normal range.

540

541 *[Product specific for products with immunomodulatory indications:]*

542 <The mechanism of action in indications other than replacement therapy is not fully elucidated, but
543 includes immunomodulatory effects.>

544

545 *[Product specific: Clinical study results can be briefly summarised here]*

546

547 Paediatric population

548

549 *[Product specific: The text should be in line with the Paediatric Regulation and the SmPC guideline. In
550 case of a full waiver or any deferral, include the standard statement in accordance with the SmPC
551 guideline.]*

552

553 **5.2 Pharmacokinetic properties**

554

555 Following subcutaneous administration of {(Invented) name}, peak serum levels are achieved after
556 approximately {X} days.

557

558 In a clinical trial with {(Invented) name} (n = {XX}), the subjects achieved sustained trough levels
559 (median {XX} g/l) over a period of {YY} weeks when receiving median weekly doses of {ZZ} g/kg.

560

561 Absorption and distribution

562

563 *[Product specific]*

564

565 Elimination

566

567 IgG and IgG-complexes are broken down in cells of the reticuloendothelial system. *[Product specific]*

568

569 Paediatric population

570

571 *[Product specific]*

572

573 **5.3 Preclinical safety data**

574

575 *[Product specific]*

576

577 **6. PHARMACEUTICAL PARTICULARS**

578

579 **6.1 List of excipients**

580

581 *[Product specific. Where applicable, the amount of albumin added as a stabiliser should be stated (Ph.*
582 *Eur. labelling requirement).]*

583

584 **6.2 Incompatibilities**

585

586 In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal
587 products.

588 *[Product specific]*

589

590 **6.3 Shelf life**

591

592 *[Product specific: reference should be made to the SmPC guideline for stability at different temporary*
593 *storage conditions.]*

594

595 **6.4 Special precautions for storage**

596

597 *[Product specific]*

598

599 **6.5 Nature and contents of container**

600

601 *[Product specific]*

602

603 **6.6 Special precautions for disposal <and other handling>**

604

605 *[Product specific]*

606

607 The medicinal product should be brought to room or body temperature before use.

608 <Total reconstitution should be obtained within *[product-specific time]*.>

609 <Products should be inspected visually for particulate matter and discoloration prior to administration.>

610 The solution should be clear or slightly opalescent and colourless or pale yellow. Solutions that are cloudy
611 or have deposits should not be used.

612

613 Any unused medicinal product or waste material should be disposed of in accordance with local
614 requirements.

615

616

617 **7. MARKETING AUTHORISATION HOLDER**

618

619 *[Product specific]*

620

621

622 **8. MARKETING AUTHORISATION NUMBER(S)**

623

624 *[Product specific]*

625

626

627 **9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

628

629 *[Product specific]*

630

631 **10. DATE OF REVISION OF THE TEXT**

632

633 *[Product specific]*

634

635 Detailed information on this medicinal product is available on the website of the European Medicines
636 Agency <http://www.ema.europa.eu><, and on the website of {name of MS Agency (link)}>.