Table 1. Infusion Rates for Privigen and Gammaguard™ IVIG

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Rate\*** | **Time** | **VTBI** |
| 1 | 0.3 mL/kg/hr | 30 mins | 0.15 mL/kg |
| 2 | 0.6 mL/kg/hr | 30 mins | 0.3 mL/kg |
| 3 | 1.2 mL/kg/hr | 30 mins | 0.6 mL/kg |
| 4 | 2.4 mL/kg/hr | 30 mins | 1.2 mL/kg |
| 5 | 4.8 mL/kg/hr | \*\*remainder of bottle | \*\*remainder of dose/volume |

\* Increase rates of infusion as per patient’s tolerance. Do not exceed maximum suggested rate. If patient does not tolerate a rate increase (experiences a mild transient reaction, as defined above), resume previous tolerated rate and then increase rate slower than recommended, i.e. 0.5 mL/kg/hr. In the event of an acute transfusion reaction, **STOP** the transfusion immediately and follow the MUHC Procedure for Transfusion Reactions.

\*\* If time required to complete the prescribed dose/volume exceeds four (4) hours once the bottle is open, then the bottle must be discarded and a new one started.

NOTE: When a bottle with a different lot number is used during the same infusion (i.e. 10g and 5g bottles), the rate of infusion must begin at step one with the new bottle. Due to different donors and batches of product, the patient may react if the infusion of a new bottle is too rapid.

Appendix 1- IVIg rates of infusion

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**Do not exceed maximum suggested rate**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Rate of infusion** | | | | |
| **Step 1** | **Step 2** | **Step 3** | **Step 4** | **Step 5** |
| 0.3 mL/kg/h | 0.6 mL/kg/h | 1.2 mL/kg/h | 2.4 mL/kg/h | 4.8 mL/kg/h |
| = 0.5 mg/kg/min | = 1 mg/kg/min | = 2 mg/kg/min | = 4 mg/kg/min | = 8 mg/kg/min |

**NOTE:** if prescribed dose > 1 g/kg, the maximum rate of infusion = step 4

Appendix 2 - Example of Volume and Rate calculations for IVIg

Patient weight =48 kg

Medical order: administer 1 g/kg IVIg = 48 g of IVIg as per protocol

Dose: 1g x 48kg = 48g

Volume required:

1 g 10 mL

48 g X mL

X = 480 mL

Rates + VTBI:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Step | Prescribed rate | Calculated rate | Time | Prescribed VTBI | Calculated VTBI | Total Volume infused |
| 1 | 0.3 mL/kg/hr | 0.3 x 48 = 14.4 mL/hr | 30 mins | 0.15 mL/kg | 0.15 mL/kg x 48 = 7.2 mL | 7.2 mL |
| 2 | 0.6 mL/kg/hr | 0.6 x 48 = 28.8 mL/hr | 30 mins | 0.3 mL/kg | 0.3 mL/kg x 48 = 14.4 mL | 21.6 mL |
| 3 | 1.2 mL/kg/hr | 1.2 x 48 = 57.6 mL/hr | 30 mins | 0.6 mL/kg | 0.6 mL/kg x 48 = 28.8 mL | 50.4 mL |
| 4 | 2.4 mL/kg/hr | 2.4 x 48 = 115.2 mL/hr | 30 mins | 1.2 mL/kg | 1.2 mL/kg x 48 = 57.6 mL | 108 mL |
| 5 | 4.8 mL/kg/hr | 4.8 x 48 = 230.4 mL/hr | Remainder of time \* | Remaining volume of dose = prescribed volume – total infused volume | Remaining volume of dose = 480 mL – 108 mL = 372 mL  230.4 mL 372 mL  60 mins X mins  X = 97 mins\*\* | 108 + 372 = 480 mL |

\*If time required to finish dose exceeds 4 hours total, bottle must be changed at 4 hour mark

\*\*Remainder of volume will take 97 minutes to infuse – does not exceed 4 hour time limit