

## Flolan (Epoprostenol) infusion-preparation and storage, for use in Continuous Renal Replacement Therapy (CRRT) in critical care

### Reconstitution

Use the glycine buffer diluent and vial adaptor provided for reconstitution.

1. Draw up 10mL of diluent through the vial adaptor.
2. Inject the 10mL diluent into the vial containing 0.5mg freeze-dried Flolan and shake gently until the powder has dissolved.
3. Draw up the resulting Flolan solution into the syringe and inject into the remaining volume of the diluent solution. Mix thoroughly.

**This solution is now referred to as the concentrated Flolan solution and contains 10,000 nanograms per mL epoprostenol.**

### Syringe preparation for infusion

1. Draw up 25mL of concentrated Flolan solution into a 50mL syringe. Secure the syringe end by attaching the provided sterile yellow filter. Attach syringe to extension line set which is connected to the CRRT circuit. The circuit is ready for use. See table 1 for dosing information.
2. Draw the remaining 25mL concentrated Flolan solution into a separate 50mL syringe. Secure syringe end with a red bung.
3. Label syringe with a completed drug infusion label. Ensure date and time of preparation is legible. Store this syringe in the ICU drug fridge and use for the next infusion.

### Dosing table<sup>1</sup>

Table 1 Infusion rate (mL/hour) using a concentrated Flolan 10,000nanograms/mL infusion

Patient weight	Dose: nanograms / kg / minute				
	1 nanogram / kg / minute	2 nanograms / kg / minute	3 nanograms / kg / minute	4 nanograms / kg / minute	5 nanograms / kg / minute
	Rate of Administration: mL/hour				
<b>30kg</b>	0.18 mL/hour	0.36 mL/hour	0.54 mL/hour	0.72 mL/hour	<b>0.90 mL/hour</b>
<b>40kg</b>	0.24 mL/hour	0.48 mL/hour	0.72 mL/hour	0.96 mL/hour	<b>1.20 mL/hour</b>
<b>50kg</b>	0.30 mL/hour	0.60 mL/hour	0.90 mL/hour	1.20 mL/hour	<b>1.50 mL/hour</b>
<b>60kg</b>	0.36 mL/hour	0.72 mL/hour	1.08 mL/hour	1.44 mL/hour	<b>1.80 mL/hour</b>
<b>70kg</b>	0.42 mL/hour	0.84 mL/hour	1.26 mL/hour	1.68 mL/hour	<b>2.10 mL/hour</b>
<b>80kg</b>	0.48 mL/hour	0.96 mL/hour	1.44 mL/hour	1.92 mL/hour	<b>2.40 mL/hour</b>
<b>90kg</b>	0.54 mL/hour	1.08 mL/hour	1.62 mL/hour	2.16 mL/hour	<b>2.70 mL/hour</b>
<b>100kg</b>	0.60 mL/hour	1.20 mL/hour	1.80 mL/hour	2.40 mL/hour	<b>3.00 mL/hour</b>

\*If patient's weight is not indicated in the table round to nearest 10Kg and manually calculate the dose if required. E.g. if patient weight is 105Kg calculate infusion rate required based on 110kg dose. See Medusa injectable guide for example calculation.

### Storage

#### Pre-prepared Flolan syringe:

- Store in ICU drug fridge at 2-8°C<sup>2</sup>
- Can safely be stored for **72 hours** starting from the time of preparation<sup>2</sup>. Any remaining solution after this time must be discarded. Do not store pre-prepared Flolan syringe at room temperature in bedside locker.

#### Concentrated Flolan solution running in the CRRT circuit:

- Will expire **12 hours** after preparation and require changing<sup>2</sup>. This will be prompted on the prescription.
  - Please complete a GANTT check at nursing handover, confirming the 12 hours expiry time with the next nurse
- **Yellow Filter:**
  - Must be changed every **24 hours** when a new infusion is prepared<sup>2</sup>.
    - Use the same yellow filter when commencing a pre-prepared syringe taken from the ICU drug fridge.
    - If the yellow filter is damaged or discarded then replace with a 0.2 micron filter.

References: 1) Medusa Epoprostenol (Flolan and non-proprietary products) Adult dosing table accessed online on 28/03/23, 2) SmPC, Summary of Product Characteristics (date last revised), Patient Leaflet (date last revised); GlaxoSmithKline UK, Flolan 0.5mg Powder and Solvent for solution for infusion (with pH12 solvent & Vented Vial Adaptor) (03/09/2021), [09/03/2023]