

## Who can administer

May be administered by registered competent doctor or nurse/midwife

## Important information

- Contact PASU 4685 to prepare infusion
- If PASU are unable to prepare the infusion, a Closed System Transfer Device (CSTD) must be used- see Important information:
- **Staff must wear gloves, goggles, mask and gown and must use a Closed System Transfer Device (CSTD)(e.g. Equashield or PhaSeal) to prepare this drug.** This is to prevent exposure of health-care staff to the drug
- **Equashield instructions** (view these websites on desktop computer)
  - [Preparing a vial assembly](#)
  - [Reconstituting a powder using a diluent vial](#)
  - [Adding to an infusion bag](#)
  - [Other instructional videos](#)
- Equashield components required:
- a: VA20 vial adaptor (VA-20/2) - one for the water for injection 100ml bottle, and one for each vial of drug required
- b: 10ml Syringe unit (SU-10/2) - to draw up Water for injection to reconstitute drug and will also draw up reconstituted solution
- c: spike adaptor (SA-IT) (to add reconstituted solution into the infusion bag)
- **Phaseal:** <https://www.youtube.com/watch?v=whKZWkCPbc8>
- See under 'Further information' regarding **handling of drug and the disposal of waste**
- See under 'Dose' for adjustments required in **renal** impairment

## Available preparations

Cymevene 500mg vial

## Reconstitution

### Water for injection

- Using a Closed System Transfer Device (CSTD)- see Important information: add 10ml water for injection from a 100ml vial (available in pharmacy) into the vial (plasco not suitable as cannot connect to Equashield)
- Swirl gently to dissolve drug
- This produces a 50mg/ml solution
- **Dilute further prior to administration**

## Infusion fluids

Sodium chloride 0.9% or Glucose 5%

# Methods of intravenous administration

## Intermittent intravenous infusion (administer using an electronically controlled infusion device)

- Using a Closed System Transfer Device (CSTD)- see Important information:, dilute to a maximum concentration of 10mg/ml
- Doses of **500mg or less**: add to **at least** 50ml infusion fluid (preferably 100ml to avoid significant loss from residual volume in administration set)
- Doses of **over 500mg** (but less than 1000mg): add to at least 100ml infusion fluid
- Administer over 60 minutes

## Dose in adults

### TREATMENT OF CMV INFECTION

- **Induction treatment:** give 5mg/kg every twelve hours for 14 to 21 days
- **Maintenance treatment:** for immunocompromised patients at risk of relapse of CMV, a course of maintenance treatment may be given. The dose is 6mg/kg once daily for five days per week, **or** 5mg/kg once daily for seven days per week
- **Duration of treatment:** should be determined on an individual basis - consult local specialists
- **Treatment of disease progression:** any patient in whom the CMV disease progresses, either while on maintenance treatment, or because treatment was discontinued, may be retreated using the induction treatment regimen

### PREVENTION OF CMV DISEASE (using pre-emptive therapy)

- **Induction treatment:** give 5mg/kg every twelve hours for 7 to 14 days
- **Maintenance treatment:** dose is 6mg/kg once daily for five days per week, **or** 5mg/kg once daily for seven days per week
- **Duration of treatment:** the duration of maintenance treatment is based on the risk of CMV disease - consult local specialists

**For other indications: see SPC**

### Renal impairment

- Dosage adjustment is required, see table below
- Need to **calculate creatinine clearance** rather than using eGFR for ganciclovir
- **Note: The Renal Drug database includes an alternative regimen** <sup>(ref 2)</sup>. Consult micro/ID for advice on a case by case basis

Creatinine clearance (ml per minute)	Dose	Frequency
<b>70 or greater</b>	usual dose	usual frequency
<b>50 to 69</b>	initial dose 2.5mg per kg	every 12 hours
	maintenance dose 2.5mg per kg	every 24 hours
<b>25 to 49</b>	initial dose 2.5mg per kg	every 24 hours
	maintenance dose 1.25mg per kg	every 24 hours
<b>10 to 24</b>	initial dose 1.25mg per kg	every 24 hours
	maintenance dose 0.625mg per kg	every 24 hours
<b>Renal replacement therapy</b>	consult pharmacy or specialist texts	

## Monitoring

- Serum creatinine levels, or **creatinine clearance** should be monitored carefully
- **FBC and platelet** counts should also be monitored
- If there is a significant deterioration of blood counts during therapy with Ganciclovir, treatment with haematopoietic growth factors and/or dose interruption should be considered.

## Further information

- **Special precautions are recommended when handling** this drug. All products involved in preparation and administration of the drug should be disposed of in a purple **cytotoxic** bin. Staff should wear protective clothing, gloves and goggles when administering the drug.
- Some 90% of the drug is excreted unchanged in the urine - hence care must be taken when disposing of products - e.g.catheter bags, nappies etc. - again they should be treated as **cytotoxic waste**

## Storage

- Store below 25<sup>0</sup>C

## References

SPC May 2023

1: Injectable medicines Guide, accessed via Medusa 28/01/2025

2: Renal drug database accessed online 28/01/2025

## Therapeutic classification

Anti-viral drug