# **RGCVP**

### **INDICATION:**

CD20-positive high-grade non-Hodgkin Lymphoma in patients in which R-CHOP is not indicated (ejection fraction <50% or risk factors for cardiovascular disease).

#### Prior to a course of treatment

- Blood tests FBC, DAT, U&Es, LDH, ESR, urate, calcium, magnesium, creatinine, LFTs, glucose, Igs, β2 microglobulin, hepatitis B core antibody and hepatitis BsAg, hepatitis C antibody, EBV, CMV, VZV, HIV 1+2 after consent, group and save.
- Hydration in patients with bulky disease pre-hydrate with sodium chloride 0.9% 1 litre over 4-6 hours.
   Patients at high risk of tumour lysis refer to tumour lysis protocol
- Treatment should be agreed in the relevant MDT
- If appropriate discuss possibility of pregnancy with female patients and need for contraception with both male and female patients. Discuss (low) risk of infertility - offer semen cryopreservation to male patients
- Written consent for course

#### Prior to each dose

- Medical review of fitness for chemotherapy exclude active infection, major changes in organ function
- Check FBC, U&Es, creat, LFTs neuts must be >1.0 and plats > 100 see dose modifications

Day 1	Rituximab	375mg/m <sup>2</sup> in 500mL Sodium Chloride 0.9%	IV Infusion (see protocol for rituximab)
	Cyclophosphamide	750mg/m <sup>2</sup>	IV Bolus
	Vincristine	1.4mg/m <sup>2</sup> in 50mL Sodium Chloride 0.9%*	IV Infusion over 5min
	Gemcitabine	750mg/m <sup>2</sup> in 250mL Sodium Chloride 0.9%	IV Infusion over 30min
Day 1-5	Prednisolone	100mg	Oral Daily
Day 8	Gemcitabine	750mg/m <sup>2</sup> in 250mL Sodium Chloride 0.9%	IV Infusion over 30min
Day 9-13	Filgrastim	300microgram	SC Daily 5 days
		* max. 2mg	
Repeat cycle every 21days for up to 6 cycles			

Prophylaxis for acute emesis Ondansetron IV 8mg

**Prophylaxis for delayed emesis** Metoclopramide 10mg tds prn

Other medications Allopurinol 300mg PO OD (first cycle only)

Co-trimoxazole 480mg PO OD (continue for 3months after last cycle) Aciclovir 200mg PO TDS (continue for 3months after last cycle)

Lansoprazole 30mg PO OD

### Dose modifications

Neutrophils > 1 and Platelets > 75 No dose modification necessary

Neutrophils 0.5-0.9 and/or Platelets 50-74 Reduce doses of Gemcitabine, Cyclophosphamide and

Vincristine by 25%

Neutrophils < 0.5 and/or Platelets < 50 Delay next cycle until Neutrophils > 1 and Platelets > 75.

Give Day1 of next cycle at 100% dose but omit Day 8

**Dose modification in Renal Impairment** 

Creatinine clearance < 30ml/min

Consider Dose reduction of Gemcitabine

Creatinine clearance 10-20ml/min

Reduce dose of cyclophosphamide by 25%

Creatinine clearance <10ml/min Reduce dose of cyclophosphamide by 50%

Dose modificaion in Hepatic Impairment

Bilirubin >  $5\mu$ mol/L Reduce dose of vincristine by 50%

Bilirubin > 5µmol/L and ALT>180IU/L Omit vincristine

## **Toxicities**

• Cyclophosphamide may irritate the bladder mucosa. Patients should be encouraged to drink a minimum of three litres of fluid per 24 hrs.

Vincristine may cause neurotoxicity.

• Gemcitabine may cause elevation of liver transaminases (AST and ALT), increased bilirubin and alkaline phosphatase, haematuria, oedema/peripheral oedema.

 Rituximab may cause patient chillness, fever, headache, tiredness, aching muscles and joints, itching redness of skin, nausea and mild drop in blood pressure.

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