

# Pola-R-CHP - Polatuzumab Vedotin 1.8 / Rituximab 375 / Cyclophosphamide 750 / Doxorubicin 50 / Prednisolone 100, diffuse large B-non-Hodgkin Lymphoma, cycle 1-6

Protocol-ID: 1920 V1.0 (Standard), Pola-R-CHP (POLVED1.8/RITU375/CYCL750/DOXO50/PRED100), DLBCL, C1-6

# Indication(s)

• NHL, B-Cell Type, Diffuse Large Cell; ICD-10 C83.3

## **Protocol classification**

- Classification: current standard
- Intensity: Standard dose
- Therapy mode: First line
- Therapy intention: curative

### **Cycles**

Cycle length 21 days, recommended cycles: 6

### **Protocol sequences**

 POLARIX: Pola-R-CHP (POLVED1,8/RITU375/CYCL750/DOXO50/PRED100), DLBCL, C1-6 (PID1920) -|- RITU375, C7-8 (PID1921)

### **Risks**

- Emetogenicity (MASCC/ESMO): moderate (30-90%)
- Neutropenia: very high (>41%)
- Febrile Neutropenia: high (>20%)
- Anemia Hb below 8g/dl: moderate (6-15%)
- Diarrhea: CTC AE °1-2: 27%; °3-4: 4%
- Headache: CTC AE °1-2: 12%; °3-4: 1%
- Neuropathy: CTC AE °1-2: 52%; °3-4: 2%
- Asthenia: CTC AE °1-2: 10%; °3-4: 2%
- Constipation: CTC AE °1-2: 28%; °3-4: 1%
- Pyrexia: CTC AE °1-2: 14%; °3-4: 2%

## Therapy

Hydration: Balanced Crystalloid Solution					НҮД
Access: peripheral venous					
Hydration before, during, or after antitumor therapy					
Day Substance	Dosage	Solution	Appl.	Inf. time	Procedure
1 Balanced Crystalloid Solution	500 ml		i.v.	60 min	60 min before Polatuzumab Vedotin

Pola-R-CHP (POLVED1.8/RITU375/CYCL750/DOXO50/PRE	
- FUIA-R-GRE (FULVED1.0/R11U3/3/GIGL/30/DUAU30/PRE	

#### Antiemesis: Emetogenicity moderate, GRAN i.v., DEXA i.v.

#### Access: peripheral venous

Day	Substance	Dosage	Solution	Appl.	Inf. time	Procedure
1	Granisetron	1 mg	NaCl 0.9% 50 ml	i.v.	5 min	15 min before Cyclophosphamide (d1)
or ot	per 5-HT3 receptor an	tagonist				

or other 5-HT3 receptor antagonist

Aller	Allergy prophylaxis: Rituximab (paracetamol, Dimetinden, Prednisolone i.v.) Allergy prophylaxis: Rituximab (paracetamol, Dimetinden, Prednisolone i.v.)					
Acce	ess: peripheral venous					
Day	Substance	Dosage	Solution	Appl. Inf. tir	ne Procedure	
1	Paracetamol	1000 mg		p.o.	60 min before Polatuzumab Vedotin	
1	Dimetinden	4 mg	NaCl 0.9% 50 ml	i.v. 5 mir	30 min before Polatuzumab Vedotin	
1	Prednisolone	100 mg	NaCl 0.9% 50 ml	i.v. 15 m	in 60 min before Polatuzumab Vedotin	

Supportive therapy: Mesna i.v., hour 0 (pre), p.o. 2 h, 6 h after onset Cyclophosphamide

#### Access: peripheral venous

Mesna 0h,2h,6h, prophylaxis of urinary tract toxicity by Cyclophosphamide. At the time of oxazaphosphorin injection, 20% of the oxazaphosphorin dose is injected simultaneously as Mesna. 2 and 6 h after onset, oral Medication of 40% of the oxazaphosporin dose, summary of product characteristics.

Day	Substance	Dosage	Solution	Appl.	Inf. time	Procedure
1	Mesna	150 mg/m <sup>2</sup> BSA		i.v.	1 min	1 min before Cyclophosphamide (d1)
1	Mesna	300 mg/m <sup>2</sup> BSA		p.o.		1 h after Cyclophosphamide (d1)
1	Mesna	300 mg/m <sup>2</sup> BSA		p.o.		5 h after Cyclophosphamide (d1)

Antir	eoplastic therapy: Pola-R-CHP									стх
Acce	ss: central venous									
Day	Substance	Dosa	ige	So	lution		Appl.	Inf. time	Procedure	
2-5	Prednisolone	100	mg				p.o.		1-0-0-0	
1	Polatuzumab vedotin	1.8	mg/kg bw	N	aCl 0.9% 150 m	ıl	i.v.	90 min	Sequence	
If the	previous infusion was well tolerated	, the subse	equent dose of p	olatuzuma	ab vedotin may b	e administered	as a 30-	minute infusio	on.	
1	Rituximab	375	mg/m² BSA	N	aCl 0.9% 500 m	าไ	i.v.	4 h	Sequence	
	nfusion rate 50mg/h; it can be increa ased by 100mg/h every 30min to ma	•		in to max.	400mg/h. Furthe	r infusions: init.	Infusior	speed 100m	g/h, which can	be
1	Cyclophosphamide	750	mg/m² BSA	N	aCl 0.9% 500 m	าไ	i.v.	1 h	Sequence	
1	Doxorubicin	50 n	ng/m² BSA	D	extrose 5% 250	) ml	i.v.	30 min	Sequence	
	atopoietic growth factors: FN risk	above 20°	%, G-CSF long-	acting, pe	gylated					HW
Risk	of febrile neutropenia (FN) >20%, AS	SCO 2015,	DKG 2016							
Day	Substance Do	osage	Solution	Appl.	Inf. time	Procedure				

2	Pegfilgrastim	6 mg	subc	Bolus	24 h after Doxorubicin (d1)
or oth	er long-acting G-CSF				

## **Substance links**

Links to substances are found here.

AE

SUP

### **Concomitant therapy supplements**

Prednisolone in allergy prophylaxis is equivalent to Prednisolone in day 1 therapy.

#### Warnings

If an infusion-related reaction occurs in a patient, slow the infusion rate of Polatuzumab Vedotin or discontinue use. Discontinue use immediately and permanently if a life-threatening reaction occurs in a patient.

Doxorubicin: increased risk of cardiomyopathy, maximum cumulative dose 450-550 mg/m<sup>2</sup> KOF. In mediastinal irradiation, arterial hypertension for more than 5 years, age over 70 years or previous cardiac damage, maximum 400 mg/m<sup>2</sup>. For DOXO extravasation: dry cold (not just before or after Dexrazoxane infusion) on day of extravasation. Dexrazoxane i.v. for 3 days: 2 days 1000 mg/m<sup>2</sup>, 3rd day 500 mg/m<sup>2</sup>, do not use in parallel with DMSO. First infusion as soon as possible and within the first 6 hours.

#### **Notes**

Patients shall be monitored for infusion-related reactions/hypersensitivity reactions during the infusion of polatuzumab vedotin and for at least 90 minutes after completion of the initial dose. If the prior infusion was well tolerated, monitor patients during the infusion and for at least 30 minutes after completion of the infusion.

Dexamethasone for antiemesis on days 2-3 covered by prednisolone of antitumor therapy.

The combination of an anthracycline and cyclophosphamide may be highly emetogenic in individual patients and require the addition of a neurokinin receptor antagonist. In this case, attention must be paid to the increase in plasma concentration of prednisolone and this may need to be adjusted.

Observe tumor lysis syndrome risk classification according to Cairo 2010; for LDH elevation without tumor bulk, use protocol "Tumor lysis syndrome prophylaxis, intermediate risk". In case of LDH elevation above two times the upper limit and tumorbulk protocol use "tumor lysis syndrome prophylaxis, high risk".

## **Controls:**

- Blood count: 1x weekly
- Echocardiography, ECG, chest X-ray Cardiotoxicity of doxorubicin, review of cardiac function before/under therapy recommended.
- Hepatitis B (HBV) Test: HBsAg and anti-HBc Rituximab: Hep-B reactivation possible. If Hep-B serology is positive, initiate measures to prevent hepatitis B reactivation.
- IgG Rituximab: Risk of Infection: It is recommended that immunoglobulin levels be determined prior to initiating treatment with rituximab.
- Day 1: Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>2+</sup>, Mg<sup>2+</sup>
- Day 1: Creatinine, glomerular filtration rate (GFR)
- Day 1: GOT, GPT, GGT, Bilirubin, AP, Cholinesterase
- · Day 1: Urine status

### **Original author**

Tilly H (2021)

### Origin

Centre Henri-Becquerel, Rouen Cedex, France, POLARIX trial

### References

• Tilly H, Polatuzumab Vedotin in Previously Untreated Diffuse Large B-Cell Lymphoma. N Engl J Med 2022 Jan 27;386(4):351-363. doi: 10.1056/NEJMoa2115304. PMID: 34904799. [PMID]

### **Recommendations**

• 04/2024: National Comprehensive Cancer Network

### **Important notice**

The copyrighted protocols are treatment recommendations. The information contained in this compilation on cytostatic drugs, concomitant medication and other therapeutic procedures, as well as dosage and application information, is continuously reviewed with all due care by the authors and editors involved. Nevertheless, the publishers and authors do not assume any liability for the correctness - also with regard to possible printing errors.

#### Pola-R-CHP (POLVED1.8/RITU375/CYCL750/DOXO50/PRED100), DLBCL, C1-6 PID 1920 V1.0

Diagnosis, indication for therapy and treatment of malignant diseases must be carried out in each individual case by the hematologist and oncologist on his or her own responsibility. The treating physician is obligated to this personal responsibility to weigh in each case before a diagnostic or therapeutic measure, indication, contraindications, dosage and application under consideration of the specialized information or other documents of the manufacturers. This applies in particular to rarely used preparations or preparations that are new to the market.



The publishers and authors assume no liability for the accuracy of the contents. The application is at the own responsibility of the treating physician. ©Onkopti.