# **Pixantrone**

INDICATION: Multiply relapsed or refractory aggressive non-Hodgkin's B-cell lymphoma

### Prior to a course of treatment

- Check cardiac function (LVEF) MUGA or echocardiogram
- Check FBC, U&Es, LFTs
- Patients with cardiac disease or risk factors such as a baseline LVEF value of < 45% by multigated radionuclide (MUGA) scan, clinically significant cardiovascular abnormalities (equal to New York Heart Association [NYHA] grade 3 or 4), myocardial infarction within the last 6 months, severe arrhythmia, uncontrolled hypertension, uncontrolled angina, or prior cumulative doses of doxorubicin or equivalent exceeding 450 mg/m2 should receive careful risk versus benefit consideration before receiving treatment with pixantrone</li>
- 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, LFTs see dose modifications
- · LVEF should be checked periodically

Pixantrone 50mg/m<sup>2</sup> IV infusion in 250ml 0.9% NaCl over 1 hour days 1, 8 & 15

(Infuse using 0.2micron filter)

# Repeat cycle every 28 days for up to 6 cycles

**Prophylaxis for acute emesis** 5HT<sub>3</sub> antagonist, dexamethasone **Prophylaxis for delayed emesis** Dexamethasone, metoclopramide

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Other medications

### Dose modifications for neutropenia (unless due to lymphoma)

Day 1:

Delay treatment until neutrophils >1 (Reduce dose if severe or prolonged neutropenia)

Days 8 & 15:

Neutrophils 0.5 – 1.0 Delay treatment until neutrophils > 1

Neutrophils <0.5 Delay treatment until neutrophils > 1 and reduce dose by

20%

Dose modification for thrombocytopenia (unless due to lymphoma)

Day 1:

Delay treatment until platelets >75 (Reduce dose if severe or prolonged neutropenia)

Days 8 & 15

Platelets 25 – 50 Delay treatment until platelets >50

Platelets <25 Delay treatment until platelets <25 and reduce dose by

20%

Dose modification for non-haematological toxicities

Any grade 3 or 4 drug-related non cardiac toxicity other

than nausea or vomiting

Delay treatment until recovery to grade 1.

Reduce the dose by 20%

Any grade 3 or 4 NYHA\* cardiovascular toxicity or

persistent LVEF\*\* decline

Delay treatment and monitor until recovery. Consider discontinuation for persistent decline in LVEF\*\* of ≥ 15%

of baseline value.

\* NYHA: New York Heart Association
\*\* LVEF: Left Ventricular Ejection Fraction

Dose modification for renal dysfunction

Use with caution in patients with renal impairment

**Modification for liver impairment** 

Use with caution in mild to moderate liver impairment. Do not use with severe excretory liver impairment

Patients on sodium restricted diet

Be aware that each dose contains around 1g (43mmol) of sodium

## **Pixantrone Toxicities**

Photosensitivity (patients should observe precautions including wearing sun-protective clothing and sunscreen)

Neutropenia

Thrombocytopenia

Cardiac disorders

Nausea & vomiting

Skin discolouration

Alopecia

Urine colouration (blue)

Raised LFTs

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