

MVAC accelerated

INDICATION (ICD10) C67

1. Neoadjuvant bladder cancer pre surgery

2. Metastatic bladder cancer

PS 0, 1, 2

REGIMEN

Day 1 VINBLASTINE 3mg/m² (maximum 10mg) in 50ml sodium chloride 0.9% IV infusion

over 10 minutes

DOXORUBICIN 30mg/m² IV bolus METHOTREXATE 30mg/m² IV bolus

Prehydration

CISPLATIN 70mg/m² in 1000ml sodium chloride 0.9% IV infusion over 2 hours

Posthydration

CYCLE FREQUENCY AND NUMBER OF CYCLES

Neoadjuvant - every 14 days for 3 cycles pre-surgery Metastatic - every 14 days for up to 6 cycles

ANTI-EMETICS

Highly emetogenic day 1

CONCURRENT MEDICATION REQUIRED

Cisplatin	Ensure adequate pre and post hydration. If urine output is <100 ml/hour or if patient gains >2kg in weight during IV administration post cisplatin give 20-40 mg furosemide PO/IV.
Methotrexate	Calcium folinate (calcium leucovorin (15mg) PO/IV every 6 hours for 6 doses starting 24 hours after methotrexate if: Pleural effusions/ascites Previous mucositis Serum creatinine >120 micromols/L
GCSF	GCSF days 2 to 8, starting at least 24 hours after chemotherapy

EXTRAVASATION AND TYPE OF LINE / FILTERS

Cisplatin – exfoliant
Doxorubicin - vesicant
Methotrexate – inflammitant
Vinblastine - vesicant

Peripheral or central line

INVESTIGATIONS

Blood results required before SACT administration

FBC, U&E and LFTs every cycle

Neutrophils x 10⁹/L ≥1.0

Platelets x 10⁹/L ≥100

Ideally EDTA GFR should be used

Creatinine clearance (GFR) calculated, at the Consultants discretion

Serum creatinine

Baseline weight and every cycle

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MAIN TOXICITES AND ADVERSE REACTIONS

Cisplatin	Nephrotoxicity – ensure adequate pre and post hydration is prescribed. Ototoxicity – assess patient for tinnitus or hearing abnormalities.
Doxorubicin	Cardiotoxicity – Monitor cardiac function to minimise the risk of anthracycline induced cardiac failure. Doxorubicin may be stopped in future cycles if signs of cardiotoxicity e.g. cardiac arrhythmias, pericardial effusion, tachycardia with fatigue.
Methotrexate	Methotrexate induced mucositis - folinic acid (calcium folinate) rescue Caution with pleural effusions or ascites
Vinblastine	Neurotoxicity

INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS

(not exhaustive list check SPC/BNF/Stockleys)

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Cisplatin	Aminoglycosides increased risk of nephrotoxicity and ototoxicity. Renal function should be well monitored and audiometric tests as required. Carboplatin can cause a decrease in phenytoin serum levels. This may lead to reappearance of seizures and may require an increase of phenytoin dosages.			
Methotrexate	NSAIDs, antibiotics: may reduce renal excretion			
Vinblastine	Aprepitant, carbamazepine, clarithromycin, enzalutamide, erythromycin, fluconazole, fosaprepitant, Idelalisib, imatinib, itraconazole, nilotinib, phenytoin, posaconazole, rifampicin may increase exposure to vinblastine, verapamil, voriconazole. Caution			

DOSE MODIFICATIONS

Doxorubicin maximum cumulative dose

- = 450 mg/m² (in normal cardiac function)
- = 400 mg/m² (in patients with cardiac dysfunction or exposed to mediastinal irradiation)

Non-haematological

Cisplatin

If patient complains of tinnitus, tingling of fingers and/or toes, discuss with SpR or Consultant before administration.

Hepatic impairment

Doxorubicin

Вологаріон	
Bilirubin 20-50micromol/L	give 50% dose
Bilirubin 51-86micromol/L	give 25% dose
Bilirubin >86micromol/L or Child-Pugh C	not recommended

Methotrexate

	Bilirubin >85micromol/L	omit

Renal impairment

Cisplatin

CrCl >60ml/min	give 100% dose	
CrCl 45-60ml/min	give 75% dose	
CrCl <45ml/min	not recommended	

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Methotrexate

CrCl 20-50ml/min	give 50% dose	
CrCl <20ml/min	omit dose	

REFERENCES

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