## SACT PROTOCOL



Systemic Anti Cancer Therapy Protocol

Cisplatin Chemo-radiation regimen Cervical Cancer

PROTOCOL REF: **MPHAGYNCIX** (Version No. 1.1)

#### Approved for use in:

For use in combination with radiotherapy for the following tumour sites, for radical or adjuvant treatment.

- Locally advanced cervical cancer
- Locally advanced vulval cancer
- Locally advanced vaginal cancer
- ECOG performance status 0, 1 or 2

#### **Dosage:**

Drug	Dose	Route	Frequency
Cisplatin	40mg/m <sup>2</sup> (max. 70mg)	IV infusion	Repeat every 7 days 5 weeks concurrent with radiotherapy

#### For up to a maximum of 6 cycles

Issue Date: August 2023 Review Date: August 2026	Page 1 of 10	Protocol reference: MPHAGYNCI	Х
Author: Sarah Craig	Authorised by: Drug	gs & Therapeutics Committee	Version No: 1.1

# SACT PROTOCOL



### **Counselling Points:**

Women of childbearing potential should use effective contraception throughout treatment and for at least 6 months following the last dose cisplatin

Contact the triage team for the following:

- New or worsening cough, chest pain or shortness of breath
- Diarrhoea or severe abdominal pain (with or without blood/mucous)
- Jaundice, severe nausea or vomiting, or easy bruising or bleeding
- Persistent or unusual headache, extreme weakness, dizziness or fainting, or vision changes
- Monitor for signs of infection / sepsis

#### **Emetogenic risk:**

Highly emetogenic.

#### Supportive treatments:

#### **Pre-Medication:**

Dexamethasone 8mg oral 30 minutes before chemotherapy

Ondansetron 16mg oral 30 minutes before chemotherapy

Aprepitant can be added if additional risk factors

#### To take home medications

Dexamethasone tablets 4mg oral, twice daily for three days

Metoclopramide tablets 10mg oral, up to 3 times a day as required for a maximum of 5

consecutive days

Ondansetron 8mg tablets oral, twice daily for 3 days

Issue Date: August 2023 Review Date: August 2026	Page 2 of 10	Protocol reference: MPHAGYNCI	X
Author: Sarah Craig	Authorised by: Drugs & Therapeutics Committee		Version No: 1.1



### **Extravasation risk:**

Cisplatin – IRRITANT

Refer to the CCC policy for the 'Prevention and Management of Extravasation Injuries'

#### Dosing in renal and hepatic impairment:

	Ahead of each cycle of treatment calculate CrCl/GFR using C&G formula prior to treatment with cisplatin.				
Renal	GFR 50-59 ml/min: 75% of the original dose				
	<b>GFR &lt; 50 ml/min:</b> not recommended, discuss with a consultant and consider carboplatin				

Hepatic No dose adjustment is expected
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#### Interactions:

## Cisplatin Nephrotoxic substances Concomitant administration of nephrotoxic (e.g. cephalosporins, aminoglycosides, amphotericin B or contrast media) medicinal products will potentiate the toxic effect of cisplatin on the kidneys. During or after treatment with cisplatin caution is advised with predominantly renally eliminated substances, because of potentially reduced renal elimination. Reduction of the blood's lithium values was noticed in a few cases after treatment with cisplatin combined with bleomycin and etoposide. It is therefore recommended to monitor the lithium values. Ototoxic substances Concomitant administration of ototoxic (e.g. aminoglycosides, loop diuretics) medicinal products will potentiate the toxic effect of cisplatin on auditory function. Except for patients receiving doses of cisplatin exceeding 60 mg/ $m^2$ , whose urine secretion is less than 1000 ml per 24 hours, no forced diuresis with loop diuretics should be applied in view of possible damage to the kidney tract and ototoxicity. Attenuated live vaccines Yellow fever vaccine is strictly contraindicated because of the risk of fatal systemic vaccinal disease.

Issue Date: August 2023 Review Date: August 2026	Page 3 of 10	Protocol reference: MPHAGYNCIX	
Author: Sarah Craig	Authorised by: Drugs & Therapeutics Committee		Version No: 1.1

# SACT PROTOCOL



In view of the risk of generalized illness, it is advisable to use an inactivated vaccine if available.

Antihistamines, Phenothiazines and others

Simultaneous use of antihistamines, buclizine, cyclizine, loxapine, meclozine, phenothiazines, thioxanthenes or trimethobenzamides may mask ototoxicity symptoms (such as dizziness and tinnitus).

Anticonvulsive substances

Serum concentrations of anticonvulsive medicines may remain at sub-therapeutic levels during treatment with cisplatin.

Pyridoxine + altretamine combination

During a randomized study of the treatment of advanced ovarian cancer, the response time was unfavorably affected when pyridoxine in combination with altretamine (hexamethylmelamine) and cisplatin.

**Paclitaxel** 

Treatment with cisplatin prior to an infusion with paclitaxel may reduce the clearance of paclitaxel and therefore can intensify neurotoxicity.

#### For more detailed interactions please refer to the SmPC

Issue Date: August 2023 Review Date: August 2026	Page 4 of 10	Protocol reference: MPHAGYNC	Х
Author: Sarah Craig	Authorised by: Drugs & Therapeutics Committee		Version No: 1.1



### **Treatment schedule:**

Day	Drug	Dose	Route	Diluent and rate
	Dexamethasone	8mg	PO	30 minutes before chemotherapy
	Ondansetron	16mg	PO	30 minutes before chemotherapy
	Cisplatin	40mg/m <sup>2</sup>	IV	1000mL Sodium Chloride 0.9% over 60-90 minutes

## Main toxicities/ Adverse Events:

Cisplatin	
Cardiac disorders	Arrhythmia, bradycardia, tachycardia can occur
Gastrointestinal	anorexia, nausea, vomiting and diarrhoea
General disorders and administration site conditions	Alopecia, rash, pyrexia (very common), asthenia, malaise, injection site extravasation, dehydration, hypokalaemia, hypophosphataemia, hypocalcaemia, tetany, muscle spasms and/or electrocardiogram changes occur as a result of damage to the kidney caused by cisplatin.
Haematological	Neutropenia, anaemia, thrombocytopenia
Hepatobiliary	Hepatic enzymes and blood bilirubin increased
Nephrotoxicity	Cisplatin causes severe cumulative nephrotoxicity. A urine output of 100 mL/hour or greater will tend to minimize cisplatin nephrotoxicity. Hyperuricaemia and hyperalbuminaemia may predispose to cisplatin-induced nephrotoxicity.
Nervous system	Cisplatin can cause peripheral neuropathy.
Ototoxicity	Ototoxicity is common with cisplatin and is manifested by tinnitus and/or hearing loss in the high frequency range

# For more detailed toxicities/adverse reactions please refer to the <u>SmPC</u> for each

agent.

Issue Date: August 2023 Review Date: August 2026	Page 5 of 10	Protocol reference: MPHAGYNCI	Х
Author: Sarah Craig	Authorised by: Drugs & Therapeutics Committee		Version No: 1.1

## Investigations and treatment plan:

	Pre	Day 1	Day 8	Day 15	Day 22	Day 29
Informed Consent	Х					
Clinical Assessment	х					
SACT Assessment (to include PS and toxicities)	Х	Х	х	Х	х	х
On treatment review (floor clinic)				х		х
FBC	Х	х	Х	Х	х	х
U&E & LFTs & Magnesium	х	х	x	х	x	Х
CrCl (Cockcroft and Gault) and urine output	Х	х	х	Х	х	х
MR/PET-CT scan	х					
ECG						
Blood pressure measurement	х					
Respiratory Rate	х					
Weight recorded	Х	Х	х	Х	Х	х
Blood glucose	Х					

Note: Bloods taken on a Friday are suitable to be used to assess if treatment on Monday is appropriate to go ahead.

Issue Date: August 2023 Review Date: August 2026	Page 6 of 10	Protocol reference: MPHAGYNCI	X
Author: Sarah Craig	Authorised by: Drugs & Therapeutics Committee		Version No: 1.1

## PROTOCOL



## **Dose Modifications and Toxicity Management:**

If chemotherapy is deferred please liaise with radiotherapy team as radiotherapy should be continued where possible

## Haematological toxicity:

Proceed on treatment day if-	
ANC ≥ 1.0 x 10 <sup>9</sup> /L	Plt ≥ 100 x 10 <sup>9</sup> /L

Delay 1 week on day 1 if-

ANC ≤ 0.9 x 10 <sup>9</sup> /L	Plt ≤ 99 x 10 <sup>9</sup> /L
ANC $\leq 0.9 \times 10^{\circ}/L$	$PII \cong 99 \times 10^{\circ}L$

These haematological guidelines assume that patients are well with good performance status, that other acute toxicities have resolved and the patient has not had a previous episode of neutropenic sepsis.

#### Non- Haematological toxicity:

#### Grading and Management of Toxicity

Toxicity should be grading according to the CTCAE criteria.

Following assessment treatment should be withheld for any toxicity until resolved to grade 0/1.

For dose modification, follow the general guidance below and discuss with treating clinician.

As patients are receiving concurrent radiotherapy, if there are any concerns related to potential radiotherapy toxicity, for example, grade 2 diarrhoea, abdominal pain or radiotherapy related skin toxicity, please contact the patient's consultant prior to delivering chemotherapy.

Issue Date: August 2023 Review Date: August 2026	Page 7 of 10	Protocol reference: MPHAGYNC	X
Author: Sarah Craig	Authorised by: Drugs & Therapeutics Committee		Version No: 1.1



	Grade 2	Grade 3	Grade 4
1 <sup>st</sup> appearance	Interrupt treatment until resolved to grade 0/1, then continue at 100% of original dose with prophylaxis where possible	Interrupt treatment until resolved to grade 0/1, then continue at 75-80% of original dose with prophylaxis where possible	Discontinue treatment
2nd appearance	Interrupt treatment until resolved to grade 0/1, then continue at 75-80% of original dose	Interrupt treatment until resolved to grade0/1, then continue at 50% of original dose	
3rd appearance	Interrupt treatment until resolved to grade 0/1, then continue at 50% of original dose	Discontinue treatment	
4th appearance	Discontinue treatment		

## **Peripheral Neuropathy**

Severe cases of neuropathies have been reported. These neuropathies may be irreversible and may manifest by paresthesia, a proprioceptive loss and a sensation of vibrations. A loss of motor function has also been reported. A neurologic examination should be carried out if clinically indicated.

#### Neurotoxicity/Ototoxicity

If patient develops Grade 2 neuropathy or ototoxicity, discuss with Consultant. Patients with functional hearing loss should have cisplatin omitted; weekly carboplatin AUC 2 can be substituted.

Issue Date: August 2023 Review Date: August 2026	Page 8 of 10	Protocol reference: MPHAGYNCI	X
Author: Sarah Craig	Authorised by: Drugs & Therapeutics Committee		Version No: 1.1

## PROTOCOL



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Issue Date: August 2023 Review Date: August 2026	Page 9 of 10	Protocol reference: MPHAGYNCI	x
Author: Sarah Craig	Authorised by: Drugs & Therapeutics Committee Version No: 1.1		Version No: 1.1

## PROTOCOL



#### **Circulation/Dissemination**

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Date document posted on the Intranet	N/A

#### **Version History**

Date	Version	Author name and designation	Summary of main changes
	V1.0	Mariah Zavery	First version
May 2023	V1.1	Sarah Craig Gynae SRG pharmacist	Routine protocol update

Issue Date: August 2023 Review Date: August 2026	Page 10 of 10	Protocol reference: MPHAGYNCI	Х
Author: Sarah Craig	Authorised by: Drugs & Therapeutics Committee		Version No: 1.1