

Systemic Anti Cancer Therapy Protocol

Pembrolizumab with Carboplatin/Paclitaxel and EC Neoadjuvant Breast Cancer Regimen followed by Adjuvant Pembrolizumab

PROTOCOL REF: MPHAPWCP (Version No. 1.0)

Approved for use in:

- Neoadjuvant treatment of operable, previously untreated, clinical stage II to III invasive triple negative breast cancer (ER/PR must be < 10% and HER2 negative by IHC or FISH)
- Pembrolizumab accessed through MSD scheme initially, patients must be registered
- Performance status 0 or 1

Exclusions

History of pneumonitis, organ transplantation, autoimmune disorders, HIV infection, active hepatitis B or C infection
Active infection requiring systemic treatment
Less than 4 weeks from major surgery
History of clinically severe autoimmune disease (can proceed with immunotherapy if well

controlled autoimmune disease at the discretion of the clinical team, this needs to be

documented on Meditech)

No live vaccines within 30 days of commencing treatment

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 1 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



Dosage:

Neoadjuvant treatment

Drug	Dosage	Route	Frequency
Pembrolizumab	200mg	IV	3 weekly
Paclitaxel	80mg/m ²	IV	Weekly
Carboplatin	AUC5 [*]	IV	3 weekly
Followed by:			
Pembrolizumab	200mg	IV	3 weekly
Epirubicin	90mg/m ²	IV	3 weekly
Cyclophosphamide	600mg/m ²	IV	3 weekly

Carboplatin has maximum dose of 790mg in this combination

This is given as 4 cycles of carboplatin/pembrolizumab with 12 weeks of paclitaxel

Followed by 4 cycles of pembrolizumab with EC

Next step is surgery

Adjuvant treatment

Drug	Dosage	Route	Frequency
Pembrolizumab	200mg	IV	3 weekly

Adjuvant treatment commences 30 to 60 days post surgery, however should hold until 2 weeks after completion of breast radiotherapy if given

For 9 cycles to complete the 17 cycles in total

*Notes: Meditech uses Wright formula to calculate estimated creatinine clearance

For automated dose calculation this will be at AUC5

Calvert formula for Carboplatin dosage:

Carboplatin dose in mg = AUC x (creatinine clearance + 25)

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 2 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



There is the option to select carboplatin within the order set where Cockroft and Gault equation can be used manually to enter a calculated dose of carboplatin using AUC6, as undertaken in the clinical trial for this regimen.

If this option is selected a **prescription note must be written at time of prescribing** detailing the parameters used to calculate the dose. Pharmacy will then adjust to the national dose bands. Without a note the prescription will not be processed.

Maximum dose of carboplatin via either method = 790mg in this protocol

Administration:

Appropriate contraceptive measures must be taken for duration of treatment and 12 months post treatment

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:

Moderately emetogenic

Supportive treatments:

Paclitaxel pre-medication:

Chlorphenamine 10mg IV bolus pre chemotherapy

Famotidine 20mg tablet pre chemotherapy for first 3 doses

Dexamethasone 8mg IV as a single dose 30mins before chemotherapy (reduce to 4mg from week 2)

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 3 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



Post carboplatin antiemetics: Dexamethasone tablets 4mg twice daily for 3 days Domperidone tablets 10mg three times a day as required

Post EC

Filgrastim prophylaxis – see administration details Ondansetron tablets 8mg twice daily for 3 days Dexamethasone tablets 4mg twice daily for 3 days Domperidone tablets 10mg three times a day as required

Extravasation risk:

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

Paclitaxel: vesicants follow trust/network policy

Carboplatin: irritant

Cyclophosphamide: non vesicant

Epirubicin: vesicant. Erythematous streaking along the vein proximal to the site of injection has been reported, and must be differentiated from an extravasation event. This reaction usually subsides within 30 minutes.

Dosing in renal and hepatic impairment:

		CrCl	Dose (%)		
		≥ 30	100		
		10 to 29	75		
	Cyclophosphamide	< 10	Not recommended. If		
		Or	unavoidable consider 50%		
		Haemodialysis (HDx)	of the original dose		
Renal					
Renal	Paclitaxel	All grades, including patients on HDx – no dose adjustment required			
	Carboplatin	Dose adjusted according to most recent results			
	Epirubicin	For patients on HDx – consider weekly dosing Otherwise no adjustments required			
	Pembrolizumab	GFR ≥ 10ml/min proceed with treatment GFR < 10ml/min- use with caution.			

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 4 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



	(prior to st treatment ONLY/Bas	art of seline)				
Bilirubin less than 1.25 time and AST < 10 x ULN				5 times ULN .25 times 5 ULN	Give Consi Consi	100% dose der dose reduction der dose reduction
		ALT biliru	and/or AST ≥10 x bin > 5 x ULN:	ULN or	Contr	aindicated
Hepatic		LFT	Ŝ	Dose Epirubicin		Dose Cyclophosphamide
		Bil 2 Or AST	Γ 2 to 4 x ULN			100%
	EC	Bil 5 Or AST	52 to 85 µmol/L - > 4 x ULN	25%		75%
		Bil Or Chil	> 85 µmol/L d-Pugh C	Omit		Omit
	Pembrolizur (prior to sta treatment ONLY/ Baseline)	mab rt of	Administered wit Moderate (total b or Severe (total bilin impairment. * Within normal li	h caution in p bilirubin > 1.5 rubin > 3 × UI imits or high	atients to 3 × 1 _N and	with: ULN and any AST) any AST*) hepatic

Interactions:

Aminoglycosides e.g. gentamicin: Increased risk of nephrotoxicity and ototoxicity with carboplatin. Renal function should be well monitored and audiometric tests carried out as indicated.

Antiepileptics (CYP 3A4 inducers): Carboplatin can cause a decrease in phenytoin serum levels. This may lead to reappearance of seizures and may require an increase of phenytoin dosages. Phenytoin, carbamazepine and phenobarbital increase the clearance of paclitaxel and increase the maximum tolerated dose

Ciclosporin: Levels of paclitaxel increased after oral administration of ciclosporin.

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 5 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



Fluconazole/Ketoconazole (CYP3A4 inhibitors): Paclitaxel level may be increased

Quinine and Verapamil: Paclitaxel level possibly increased.

Warfarin: The effects of warfarin may be increased. Monitor INR closely.

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 6 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



Treatment schedule:

Paclitaxel and Carboplatin - cycles 1 to 4

Paclitaxel must be administered using a non-PVC giving set with a 0.22 micron filter.

Day	Drug	Dose	Route	Diluent and rate
1	Pembrolizumab	200mg	IV infusion	100mL sodium chloride 0.9% over 30 minutes in a non- pyrogenic line with 0.2 micron filter Then change the line to paclitaxel giving set
1	Chlorphenamine	10mg	IV Infusion	30 minutes prior to paclitaxel
1	Dexamethasone	8mg	IV Infusion	30 minutes prior to paclitaxel
1	Famotidine	20mg	Orally	60 minutes prior to paclitaxel
1	Ondansetron	16mg	Orally	30 minutes prior to paclitaxel
1	Paclitaxel	80mg/m²	IV Infusion	250 to 500mL sodium chloride 0.9% over 60 minutes
1	Carboplatin	AUC5	IV Infusion	500mL glucose 5% over 30 to 60 minutes
8	Chlorphenamine	10mg	IV Infusion	30 minutes prior to paclitaxel
8	Dexamethasone	4mg	IV Infusion	30 minutes prior to paclitaxel
8				
	Famotidine	20mg	Orally	60 minutes prior to paclitaxel
8	Famotidine Paclitaxel	20mg 80mg/m ²	Orally IV Infusion	60 minutes prior to paclitaxel 250 to 500mL sodium chloride 0.9% over 60 minutes
8 15	Famotidine Paclitaxel Chlorphenamine	20mg 80mg/m ² 10mg	Orally IV Infusion IV Infusion	60 minutes prior to paclitaxel 250 to 500mL sodium chloride 0.9% over 60 minutes 30 minutes prior to paclitaxel
8 15 15	Famotidine Paclitaxel Chlorphenamine Dexamethasone	20mg 80mg/m ² 10mg 4mg	Orally IV Infusion IV Infusion IV Infusion	60 minutes prior to paclitaxel250 to 500mL sodium chloride 0.9% over 60 minutes30 minutes prior to paclitaxel30 minutes prior to paclitaxel
8 15 15 15	Famotidine Paclitaxel Chlorphenamine Dexamethasone Famotidine	20mg 80mg/m² 10mg 4mg 20mg	Orally IV Infusion IV Infusion IV Infusion Orally	60 minutes prior to paclitaxel250 to 500mL sodium chloride 0.9% over 60 minutes30 minutes prior to paclitaxel30 minutes prior to paclitaxel60 minutes prior to paclitaxel

Cycle is repeated every 21 days

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 7 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



Paclitaxel doses are omitted not delayed, with the intention of completing treatment on schedule at week 12. EC part of regimen to commence 3 weeks after the final dose of carboplatin in this section

Epirubicin and Cyclophosphamide - cycles 5 to 8

Day	Drug	Dose	Route	Diluent and rate
1	Pembrolizumab	200mg	IV infusion	100mL sodium chloride 0.9% over 30 minutes in a non- pyrogenic line with 0.2 micron filter Then change the administration set
1	Dexamethasone	12mg	Orally	30 minutes prior to chemotherapy
1	Ondansetron	24mg	Orally	30 minutes prior to chemotherapy
1	Epirubicin	90mg/m ²	IV	IV bolus over 10 to 15 minutes
1	Cyclophosphamide	600mg/m ²	IV	IV bolus over 30 minutes
3 to 9	Filgrastim	300 or 480 micrograms	S/C	Daily for 7 days starting on day 3 of cycle

Cycle is repeated every 21 days

Filgrastim dose:

For patients under 70kg: 300 micrograms subcutaneous injection daily For patients 70kg and above: 480 micrograms subcutaneous injection daily

Main toxicities:

Thrombocytopenia, neutropenia, anaemia, nausea, vomiting, diarrhoea

For full details on assessment and management of immune-related toxicities refer to CCC

Immuno-Oncology toxicity specific guidance for adverse event management.

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 8 of 17	Protocol reference: MPHAPWCP		
Author: Helen Flint	Authorised by: Drug	gs & Therapeutics Committee	Version No: 1.0	



Chemotherapy: Ca	rboplatin/Paclitaxel and EC
Haematological	Neutropenia, thrombocytopenia and anaemia.
Gastrointestinal	Nausea, vomiting, stomatitis, diarrhoea, mucositis
Cardiotoxicity	Epirubicin - sinus tachycardia and/or electrocardiogram (ECG) abnormalities such as non-specific ST-T wave changes. Congestive heart failure. Other cardiac events have been reported, included delayed toxicity.
Dermatological	Alopecia, normally reversible Paclitaxel: <u>Brittle, chipped and ridged nails</u>
Urological	Red colouration of urine for 1 to 2 days after administration following epirubicin Urotoxicity can occur with short-term and long-term use of cyclophosphamide. Hemorrhagic cystitis, pyelitis, ureteritis, and haematuria. Mesna can be given if required. Carboplatin is nephrotoxic
Ocular	Watery eyes, gritty and irritated Risk of cortical blindness with carboplatin (renal impairment may increase this risk)
Ototoxicity	Common when carboplatin used in high doses
Hypersensitivity reactions	Reactions may occur within a few minutes following the initiation of treatment with paclitaxel or carboplatin facilities for the treatment of hypotension and bronchospasm should be available.
	If hypersensitivity reactions occur, minor symptoms such as flushing or localised rash with or without pruritus do not require interruption of therapy. However, severe reactions, such as severe hypotension, bronchospasm or generalised rash/erythema require immediate discontinuation of paclitaxel or carboplatin and appropriate treatment. Patients who have developed severe hypersensitivity reactions should not be re- challenged.
General disorders	Carboplatin: Decreases in serum electrolytes (sodium, magnesium, potassium and calcium) Renal function impairment Hyperuricaemia: Serum levels of uric acid can be decreased by allopurinol.

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 9 of 17	Protocol reference: MPHAPWCP			
Author: Helen Flint	Authorised by: Drug	gs & Therapeutics Committee	Version No: 1.0		



Nervous system	Carboplatin: Paraesthesia and decreased deep tendon reflexes.
	Paclitaxel: peripheral neuropathy is very common
Musculoskeletal	Arthralgia, myalgia common with paclitaxel
Infertility	Amenorrhea, risk of premature menopause However ensure appropriate contraceptive advice is given
Immunotherapy: P	embrolizumab
Immune-Mediated	Refer to Immuno-Oncology toxicity specific guidance for
Pneumonitis	adverse event management
Immune-Mediated Colitis	Refer to Immuno-Oncology toxicity specific guidance for adverse event management
Other Immune-Mediated Toxicities:	Monitor LFTs, biochemistry, cortisol and TFTs regularly
Hypophysitis Nephritis Hyperthyroidism or Hypothyroidism	Refer to Immuno-Oncology toxicity specific guidance for adverse event management
Less frequently: Exfoliative dermatitis, uveitis, arthritis, myositis, pancreatitis, haemolytic anaemia	
Other non-immune adverse events:	Refer to Immuno-Oncology toxicity specific guidance for adverse event management
Cough, dyspnoea Nausea, decreased appetite Pruritis, rash Constipation, diarrhoea Arthralgia	Note: many of these overlap with chemotherapy toxicities
Laboratory abnormalities: Hyponatraemia, hypocalcaemia, hyperglycaemia, hypertriglyceridaemia	Refer to Immuno-Oncology toxicity specific guidance for adverse event management

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 10 of 17	Protocol reference: MPHAPWCP		
Author: Helen Flint	Authorised by: Drug	gs & Therapeutics Committee	Version No: 1.0	



Investigations and treatment plan: Cycles 1 to 4

	Pre	Cycle 1	C1D8	C1D15	Cycle 2	C2d8	C2d15	Ongoing
Informed Consent	Х							
Clinical Assessment	х				х			As clinically indicated or at the end of treatment
SACT Assessment (to include PS and toxicities)	Х	х	х	х	Х	х	х	Every treatment
On treatment review		х			Х			Every cycle day 1
FBC	х	х	Х	Х	Х	Х	х	Every treatment
FBC, U&E/renal profile, Magnesium, LFTs (AST, ALT and bilirubin),	Х	х	Х	х	х	х	х	Every treatment
Additional immunotherapy tests: TFTs, cortisol, blood glucose, LDH, CRP, cardiac tests	x	x			х			Every day 1
CrCl (Cockcroft and Gault)	х	х			Х			Every cycle day 1
Lipid profile (cholesterol)	Х							Baseline and then as clinically indicated
Fatigue profile as per Meditech order set: B12, folate, Iron profile, vitamin D, Zinc, Testosterone (men only), ESR	х							Baseline and then as clinically indicated
ECG/ECHO	х							
Blood pressure measurement	х							Repeat if clinically indicated
Respiratory Rate	х							If clinically indicated
Weight recorded	Х	х	Х	Х	Х	х	Х	Every cycle
Height	Х							

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 11 of 17	Protocol reference: MPHAPWCP			
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0		



Investigations and treatment plan: Cycles 5 to 8

	Cycle 5	Cycle 6	Cycle 7	Cycle 8	Comments
Clinical Assessment	x			х	As clinically indicated or at the end of treatment
SACT Assessment (to include PS and toxicities)	х	Х	х	Х	Every treatment
On treatment review	x	х	х	х	Every cycle
FBC	x	х	х	х	Every cycle
Immunotherapy bloods as per Meditech order set: FBC, U&E/renal profile, Magnesium, LFTs (AST, ALT and bilirubin), TFTs, cortisol, blood glucose, LDH, CRP, cardiac blood tests	x	х	x	x	Every cycle
CrCl (Cockcroft and Gault)	x	х	х	х	Every cycle
Lipid profile (cholesterol)	x				Baseline and then as clinically indicated
Fatigue profile as per Meditech order set: B12, folate, Iron profile, vitamin D, Zinc, Testosterone (men only), ESR	x				Baseline and then as clinically indicated
ECG/ECHO pre epirubicin					If clinically indicated
Blood pressure measurement	x				Repeat if clinically indicated
Respiratory Rate					If clinically indicated
Weight recorded	Х	х	Х	Х	Every cycle

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 12 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



Investigations and treatment plan: Cycles 9 to 17

	Cycle 9	Cycle 10	Cycle 11	Cycle 12	Comments
Clinical Assessment	x			х	As clinically indicated or at the end of treatment
SACT/IO Assessment (to include PS and toxicities)	Х	х	х	х	Every treatment
On treatment review	x	х	х	х	Every cycle
FBC	х	х	х	х	Every cycle
Immunotherapy bloods as per Meditech order set: FBC, U&E/renal profile, Magnesium, LFTs (AST, ALT and bilirubin), TFTs, cortisol, blood glucose, LDH, CRP, cardiac blood tests	x	х	х	x	Every cycle
CrCl (Cockcroft and Gault)	x	х	х	х	Every cycle
Lipid profile (cholesterol)	х				Baseline and then as clinically indicated
Fatigue profile as per Meditech order set: B12, folate, Iron profile, vitamin D, Zinc, Testosterone (men only), ESR	x				Baseline and then as clinically indicated
Blood pressure measurement	х				Repeat if clinically indicated
Respiratory Rate					If clinically indicated
Weight recorded	x	х	х	х	Every cycle

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 13 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



Dose Modifications and Toxicity Management:

Haematological toxicity:

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.

Cycles 1 to 4

<u>Day 1</u>

Proceed with carboplatin and paclitaxel if:

Platelets ≥	: 100 x	10 ⁹ /L	AND
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ANC ≥ 1.0 x 10⁹/L

Proceed with day 8 and day 15 paclitaxel if:

Platelets $> 100 \times 10^{9/1}$ AND	$\Delta NC > 1.0 \times 10^{9/1}$
	$ANC \ge 1.0 \times 10 / L$

If parameters are outside above limits then paclitaxel is **<u>omitted</u>** (not deferred).

Reduce paclitaxel dose permanently by 10mg/m² following:

Two consecutive omitted doses for thrombocytopenia

Add filgrastim daily for 3 days from day 2 if neutropenia

Consider reducing dose or stopping weekly paclitaxel if severe febrile neutropenia

Reduce carboplatin dose permanently by 20% following:

Two week delay for thrombocytopenia

Or a single occurrence of platelets $< 25 \times 10^{9}/L$

Consider reducing or stopping carboplatin if severe febrile neutropenia or two consecutive omitted doses of paclitaxel

Cycle 5 commences 3 weeks after the fourth dose of carboplatin (i.e. usually one week after week 12 of paclitaxel)

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 14 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



Cycles 5 to 8

Proceed with EC on day 1 if:

If parameters below these limits then defer for one week.

If delayed by two consecutive weeks or febrile neutropenia occurs then dose reduce both agents by 20%

Non- Haematological toxicity:

Any grade 3 or 4 toxicity: hold all treatment

If deemed to be pembrolizumab toxicity then resume the chemotherapy part once resolved to grade 1 regardless of concurrent steroid dose (for example thyroid dysfunction, arthralgia)

If chemotherapy toxicity (for example, neutropenia) resume all treatment when resolved to grade 1 or 2 (see table below). If chemotherapy is not restarted proceed with pembrolizumab alone.

When treatment is delayed for 2 consecutive weeks please contact the patient's medical team to review if part of the treatment can restart, as this is neoadjuvant treatment keeping to schedule is beneficial in terms of outcome.

Toxicity	Grade	Adjustment to carboplatin/ paclitaxel	Adjustment to epirubicin/ cyclophosphamide
	1 or 2	No dose change, consider alternative antiemetics	

lssue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 15 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



Nausea/ vomiting	<u>></u> 3	Hold chemotherapy until grade 1	Hold chemotherapy until grade 1	
		Add aprepitant/change	Add aprepitant/change	
		antiemetics	antiemetics	
		If second episode then dose	If second episode then dose	
		reduction of paclitaxel and	reduction of epirubicin and	
		carboplatin by 20%	cyclophosphamide by 20%	
Mucositis	1 or 2	No adjustment		
	<u>></u> 3	Hold chemotherapy until	Hold chemotherapy until	
		grade 1	grade 1	
		Provide supportive	Provide supportive	
		treatments	treatments	
		If second episode then dose	If second episode then dose	
		reduction of paclitaxel and	reduction of epirubicin and	
		carboplatin by 20%	cyclophosphamide by 20%	
Neurotoxicity	1 or 2	No adjustment	No adjustment, will be	
	<u>></u> 3	Hold chemotherapy until	persisting side effect from	
		resolved to grade 1. Reduce	first part of regimen	
		paclitaxel by 20%, consider		
		reducing carboplatin by 20%		
		If not resolved within 3		
		weeks then discontinue		
Hepatic	1	No adjustment		
	2 or 3	Hold chemotherapy until reso	Ived to grade 1. Discontinue if	
		not resolved within 3 weeks		
	4	Discontinue		
Cardiac	1 or 2	Not applicable	No adjustment	
	3	Not applicable	Discontinue epirubicin	

References:

https://www.medicines.org.uk/emc

Keynote 522 trial protocol

Pembrolizumab for early triple negative breast cancer Schmid et al NEJM 2020 382:810-821

Circulation/Dissemination

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 16 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0



Date added into Q-Pulse	23 rd January 2023
Date document posted on the Intranet	N/A

Version History

Date	Version	Author name and designation	Summary of main changes
August 2022	1.0	Helen Flint Consultant Pharmacist	New Regimen Protocol

Issue Date: 19 th August 2022 Review Date: 1 st August 2025	Page 17 of 17	Protocol reference: MPHAPWCP	
Author: Helen Flint	Authorised by: Drugs & Therapeutics Committee		Version No: 1.0