Systemic Anti Cancer Therapy Protocol

Nivolumab Adjuvant Free of charge (FOC) Scheme in Bladder Cancer

PROTOCOL REF: MPHANIVADUR (Version No: 1.0)

Approved for use in:

Compassionate use as adjuvant treatment, following radical surgery, of urothelial carcinoma (with primary tumor sites including bladder, ureter, or renal pelvis).

Exclusions

History of pneumonitis, organ transplantation, HIV infection, active hepatitis B or C infection, Active infection requiring systemic treatment, Less than 4 weeks from major surgery or history of clinically severe autoimmune disease.

Patient Counselling Points

Women of childbearing potential should use effective contraception throughout treatment and for at least 5 months following the last dose of Nivolumab.

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

Issue Date: 9 th June 2021 Review Date: June 2024	Page 1 of 7	Protocol reference: MPHANIVAD	UR
Author: Anna Burke	Authorised by: Drug & Therapeutics Committee		Version No: 1.0

Dosage:

Drug	Dose	Route	Frequency
Nivolumab	240mg	IV infusion	2 weekly for 52 weeks

- Dosing delay or discontinuation may be required based on individual safety and tolerability.
- Guidelines for permanent discontinuation or withholding of doses are contained in 'Dose Modifications' section.
- Detailed guidelines for the management of immune-related adverse reactions is available on the following link:

CCC Immuno-Oncology toxicity specific guidance for adverse event management.

Administration:

٦	Day	Drug	Dose	Route	Diluent and rate
	1	Nivolumab	240mg	IV infusion	100mL sodium chloride 0.9%. Infused over 30 minutes in a non- pyrogenic line with a 0.2 micron filter

- Routine prophylaxis against infusion related reactions is not required.
- However the patient should be monitored during infusion, and treatment given if necessary (antihistamines, steroids etc).
- Please refer to the CCC <u>Hypersensitivity; Management Prevention Policy</u>

Extravasation risk:

Monoclonal antibody – treat symptomatically, no specific recommendations. Refer to the CCC policy for the 'Prevention and Management of Extravasation Injuries'.

Main toxicities:

For full details on assessment and management of immune-related toxicities refer to <u>CCC</u> <u>Immuno-Oncology toxicity specific guidance for adverse event management</u>.

Issue Date: 9 th June 2021 Review Date: June 2024	Page 2 of 7	Protocol reference: MPHANIVAD	UR
Author: Anna Burke	Authorised by: Drug & Therapeutics Committee		Version No: 1.0

Nivolumab	
Immune-Mediated Pneumonitis Pneumonitis occurred in 3% of melanoma patients (including G3 in 0.2%).	Monitor patients for signs and symptoms and evaluate with radiographic imaging and administer corticosteroids for G2 or greater.
Immune-Mediated Colitis Colitis occurred in 1% of patients (including G3 in 0.5%).	Monitor patients for signs and symptoms and administer corticosteroids for G2 or greater.
Other Immune-Mediated Toxicities: Hepatitis Hypophysitis Nephritis Hyperthyroidism or Hypothyroidism Less frequently: Exfoliative dermatitis, uveitis, arthritis, myositis, pancreatitis, haemolytic anaemia	Monitor LFTs, biochemistry and TFTs As above, consider corticosteroids for G2 or greater
Other non-immune adverse events: Fatigue, anaemia Cough, dyspnoea Nausea, decreased appetite Pruritis, rash Constipation, diarrhoea Arthralgia	Symptomatic management for G1/G2 Monitor diarrhoea – as this may be the first sign of colitis
Laboratory abnormalities: Hyponatraemia, hypocalcaemia, hyperglycaemia, hypertriglyceridaemia	Monitor at each cycle

Issue Date: 9 th June 2021 Review Date: June 2024	Page 3 of 7	Protocol reference: MPHANIVAD	UR
Author: Anna Burke	Authorised by: Drug & Therapeutics Committee		Version No: 1.0

Investigations and treatment plan:

If suspicion of endocrinopathies: request TSH, T4, T3, ACTH, cortisol, LH, FSH, testosterone (men) and prolactin (women).

	Pre	Cycle 1	Cycle 2	Prior to cycle 3	Cycle 3	Ongoing	
Informed Consent	Х						
Clinical Assessment	х				x	As clinically indicated or at the end of treatment	
SACT Assessment (to include PS and toxicities)	х	х	x		х	Every cycle	
Immunotherapy bloods as per Meditech order set: FBC, U&E/renal profile, Magnesium, LFTs, TFTs, cortisol, blood glucose, LDH, CRP	х	x	x		x	Every cycle	
Fatigue profile as per Meditech order set: B12, folate, Iron profile, vitamin D, Zinc, Testosterone (men only), ESR	х					At baseline then if clinically indicated	
Lipids and cholesterol	Х					At baseline then if clinically indicated	
CrCl (Cockcroft and Gault)	х					Every cycle only if baseline CrCL ≤40ml/min or creatinine increases above 1.5 x upper limit of normal	
CT scan	Х					Every 6 months if clinically indicated	
Trop-T, CK, pro -BNp						As clinically indicated	
ECG						At baseline for all Renal and Melanoma (ECG to be reviewed by clinical team)	
Full Observations	Х	Х	X		Х	Every cycle	
Weight recorded	Х	Х	x		х	Every cycle	
Height recorded	Х						

Pregnancy test if applicable

Issue Date: June 2021 Review Date:	Page 4 of 7	Protocol reference:	
Author: Anna Burke	Authorised by:		Version No: 1.0

Dose Modifications and Toxicity Management:

Haematological toxicity

- Dosing delay or discontinuation may be required based on individual safety and tolerability.
- Guidelines for permanent discontinuation or withholding of doses are contained in 'Dose Modifications' section.
- Detailed guidelines for the management of immune-related adverse reactions is available on the following link:
 <u>CCC Immuno-Oncology toxicity specific guidance for adverse event management</u>

Proceed on day 1 if:-

Platelets	Neutrophils	Creatinine Clearance	Bilirubin	AST/ALT	Alkaline Phosphatase	TSH and Free T4
≥ 75 x 10 ⁹ /L	≥ 1.0 x 10 ⁹ /L	≥30 mL/min	<3 x ULNª	<5 x ULN	<5 x ULN	Within range or no change from base line

^a ULN = upper limit of normal

The dose should be omitted if appropriate. Inform consultant if there has been an increase in liver function test from previous results.

8.0 Toxicity management:

Systemic high-dose corticosteroid with or without additional immunosuppressive therapy may be required for management of severe immune-related adverse reactions.

Issue Date: June 2021 Review Date:	Page 5 of 7	Protocol reference:	
Author: Anna Burke	Authorised by:		Version No: 1.0

Non- Haematological toxicity:

Toxicity Grade	Action
Grade 1 Mild	No action. Provide symptomatic treatment
Grade 2 Moderate	Withhold Nivolumab until resolved to <grade 1.<br="">Refer to Immuno-Oncology toxicity specific guidance for adverse event management.</grade>
Grade 3 and Grade 4 Severe	Withhold Nivolumab. Refer to Immuno-Oncology toxicity specific guidance for adverse event management.Nivolumab will be permanently discontinued for any unresolving grade 3-4, severe or life-threatening adverse reaction at the treating clinician's discretion.

Issue Date: June 2021 Review Date:	Page 6 of 7	Protocol reference:	
Author: Anna Burke	Authorised by:		Version No: 1.0

References:

- 1. https://www.medicines.org.uk/emc/medicine/30476
- ASCO GU 2021: First Results from the Phase 3 CheckMate 274 Trial of Adjuvant Nivolumab vs Placebo in Patients Who Underwent Radical Surgery for High-Risk Muscle-Invasive Urothelial Carcinoma

Issue Date: June 2021 Review Date:	Page 7 of 7	Protocol reference:	
Author: Anna Burke	Authorised by:		Version No: 1.0