

Systemic Anti Cancer Therapy Protocol

Nivolumab - Advanced or Metastatic Squamous Cell Carcinoma of the Anal Canal (SCCA) Compassionate Use

PROTOCOL REF: MPHASCCAGA
Version No: 1.0

Approved for use in:

Previously treated unresectable or metastatic squamous cell carcinoma of the anal canal (SCCA) for a single patient of Dr. Mary Anthony Pillai.

PS 0 – 1

Dosage:

Drug	Dosage	Route	Frequency	Duration of Treatment
Nivolumab	3mg/kg	IV Infusion	Day 1 only Every 2 weeks	Until disease progression, unacceptable toxicity

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

History of clinically severe autoimmune disease

Extravasation risk:

Nivolumab is a monoclonal antibody- considered to be neutral.

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

Dosing in renal and hepatic impairment (Prior to start of treatment ONLY/Baseline):

Renal	Nivolumab	eGFR < 30ml/min/1.73)- limited data use with caution
Hepatic	Nivolumab	Administered with caution in patients with: Moderate (total bilirubin > 1.5 -3 × ULN and any AST) or Severe (total bilirubin > 3 × ULN and any AST*) hepatic impairment. * Within normal limits or high

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

Administration:

Day	Drug	Dose	Route	Diluent and rate
1	Sodium chloride 0.9%	250mL	IV	Flush
1	Nivolumab	3mg/kg	IV	100mL sodium chloride 0.9%. Infused over 30 minutes in a non-pyrogenic line with a 0.2 micron to 1.2 micron filter

Repeated every 2 weeks until disease progression or unacceptable toxicity.

Routine prophylaxis against infusion related reactions is not required. However, monitor during the infusion and treatment given if necessary (antihistamines, steroids etc.).

Please refer to the **CCC Hypersensitivity; Management Prevention Policy**

Main Toxicities:

For full details on assessment and management of immune-related toxicities refer to [CCC Immuno-Oncology toxicity specific guidance for adverse event management](#).

Immune related toxicities	
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 toxicities of grade 2 or above.
Immune-Mediated Colitis	Monitor patients for signs and symptoms and administer corticosteroids for grade 2 or greater.

PROTOCOL



The Clatterbridge
Cancer Centre
NHS Foundation Trust

<p>Other Immune-Mediated Toxicities: Hepatitis Hypophysitis Nephritis Hyperthyroidism or Hypothyroidism</p> <p>Less frequently: Exfoliative dermatitis, uveitis, arthritis, myositis, pancreatitis, haemolytic anaemia, Guillain-Barré syndrome</p>	<p>Monitor LFTs, biochemistry, cortisol, TFTs and blood glucose, consider corticosteroids for grade 2 or greater.</p>
<p>Other non-immune adverse events: Fatigue, anaemia Cough, dyspnoea Nausea, decreased appetite Pruritis, rash Constipation, diarrhoea Arthralgia</p>	<p>Symptomatic management for grade 1 with close monitoring</p>
<p>Laboratory abnormalities: Hyponatraemia, hypocalcaemia, hyperglycaemia, hypertriglyceridaemia</p>	<p>Monitor at each cycle and rule out immune-mediated reaction</p>

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	Cycle 3	Ongoing
Informed Consent	x				
Clinical Assessment	x		x		Then every 12 weeks or as clinically indicated
SACT Assessment (to include PS and toxicities)	x	x	x	x	Every cycle
OTR/ Go-ahead	x		x	x	Every cycle
Immunotherapy bloods as per Meditech order set: FBC, U&E/renal profile, Magnesium, LFTs (ALT, AST and Bilirubin), TFTs, cortisol, blood glucose, LDH, CRP	x	x	x	x	Every cycle

PROTOCOL

Lipid profile (cholesterol)	x				At baseline then if clinically indicated
Fatigue profile as per Meditech order set: B12, folate, Iron profile, vitamin D, Zinc, Testosterone (men only), ESR	x				At baseline then if clinically indicated
Full set of observations (<i>BP, heart rate, temperature, respiratory rate and O₂ sats</i>)	x	x	x	x	Every cycle
Creatinine Clearance (Cockcroft and Gault)	x				Every cycle only if baseline CrCL <40ml/min or creatinine increases above 1.5x upper limit of normal and baseline
CT scan	x				Every 12 weeks or as clinically indicated
Trop-T, CK, pro-BNP	x				At baseline for all Renal and Melanoma and thereafter as clinically indicated (ECG to be reviewed by clinical team)
ECG	x				

PROTOCOL

Weight recorded	x	x	x	x	Every cycle
Height recorded	x				

Dose Modifications and Toxicity Management:

- 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.
- Detailed guidelines for the management of immune-related adverse reactions are provided in the [CCC Immuno-Oncology toxicity specific guidance for adverse event management](#).

Treatment Threshold

Administer treatment on day 1 if:

Platelets	Neutrophils	Serum Creatinine	Bilirubin	AST/ALT	Alkaline Phosphatase	TSH and Free T4
$\geq 75 \times 10^9/L$	$\geq 1.0 \times 10^9/L$	≥ 1.5 ULN or baseline	$<3 \times$ ULN	$<5 \times$ ULN	$<5 \times$ ULN	Within range or no change from base line

ULN = upper limit of normal

Platelets must be within normal range prior to Cycle 1.

Issue Date: 26 th October 2021 Review: October 2024	Page 7 of 10	Protocol reference: MPHASCCAGA
Author: Hala Ghaz	Authorised by: Drug & Therapeutics Committee	Version No: 1.0

Toxicity management:

Detailed guidelines are provided in the CCC clinical network immunotherapy acute oncology guidelines. Systemic high-dose corticosteroid with or without additional immunosuppressive therapy may be required for management of severe immune-related adverse reactions.

Toxicity Grade	Action
Grade 1 Mild	Continue treatment increase monitoring and provide symptomatic treatment.
Grade 2 Moderate	Withhold treatment until resolved to \leq grade 1. Refer to Immuno-Oncology toxicity specific guidance for adverse event management.
Grade 3 and Grade 4 Severe	Withhold treatment. Treatment will be permanently discontinued for any unresolving grade 3-4, severe or life-threatening adverse reaction at the treating clinician's discretion. Refer to Immuno-Oncology toxicity specific guidance for adverse event management.

References:

Opdivo 10mg/mL, Summary of Product Characteristics, Bristol-Myers Squibb Pharmaceutical Limited.

Available from www.medicines.org.uk/emc/medicine. Last updated 23rd March 2021

Morris VK et al. (2017) Nivolumab for previously treated unresectable metastatic anal cancer (NCI9673): a multicentre, single-arm, phase 2 study. *Lancet Oncol.* 18(4):446-453.

Issue Date: 26 th October 2021 Review: October 2024	Page 9 of 10	Protocol reference: MPHASCCAGA
Author: Hala Ghaz	Authorised by: Drug & Therapeutics Committee	Version No: 1.0

PROTOCOL

Circulation/Dissemination

Date added into Q-Pulse	22 nd November 2021
Date document posted on the Intranet	22 nd November 2021

Version History

Date	Version	Author name and designation	Summary of main changes
October 2021	1.0	Hala Ghaz - Lead Pharmacist for Protocols	New protocol

Issue Date: 26 th October 2021 Review: October 2024	Page 10 of 10	Protocol reference: MPHASCCAGA
Author: Hala Ghaz	Authorised by: Drug & Therapeutics Committee	Version No: 1.0