Systemic Anti Cancer Therapy Protocol

# Nivolumab Adjuvant Treatment Melanoma and Gastro-oesophageal Cancer

PROTOCOL REF: MPHANIADSK (Version No.1.2)

## Approved for use in:

#### Melanoma

Nivolumab monotherapy, as first line adjuvant treatment of newly diagnosed and completely resected stage III or completely resected stage IV malignant melanoma.

## **Gastro-oesophageal Cancer**

- Adjuvant treatment for completely resected oesophageal or gastro-oesophageal junction cancer in adults who have residual pathological disease after prior neoadjuvant platinum-containing chemo-radiotherapy which satisfies the following criteria:
- Histologically confirmed:
  - Squamous cell or adenocarcinoma of the oesophagus
     OR
  - Adenocarcinoma of the gastro-oesophageal junction
  - Treatment to start less than 16 weeks from surgical resection of the tumour.
  - Radiologically confirmed M0 disease within 4 weeks of starting treatment.
  - ECOG PS 0 or 1

\*\*\* Blueteq registration is required for BOTH indications \*\*\*

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## Dosage:

Drug	Dosage	Route	Frequency
Nivolumab	480mg	IV infusion	4 weekly for a maximum of 12 months (or a maximum of 13 cycles when given 4-weekly)
Nivolumab	*240mg*	IV infusion	*2 weekly for a maximum of 12 months (or a maximum of 26 cycles when given 2-weekly)*

<sup>\*</sup>Where risk factors for toxicity are present e.g. pre-existing autoimmune disease or previous toxicity, the 2 weekly regime may be used.\*

- Dosing delay or discontinuation may be required based on individual safety and tolerability.
- Guidelines for permanent discontinuation or withholding of doses are contained in the 'Dose Modifications' Section.
- For full details on assessment and management of immune-related toxicities refer to <u>CCC Immuno-Oncology toxicity specific guidance for adverse event</u> <u>management</u>.

#### **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'.

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# 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	Nivolumab	480mg	IV infusion	100mL sodium chloride 0.9%.
		(4 weekly)		Infused over 60 minutes (for 480mg)
		*or 240mg		*or 30 minutes (for 240mg)* in a non-
		(2 weekly)*		pyrogenic line with a 0.2 micron filter

For a maximum of 12 months (maximum of 13 cycles when given 4 weekly or a maximum of 26 cycles when given 2-weekly)

\*Where risk factors for toxicity are present e.g. pre-existing autoimmune disease or previous toxicity, the 2 weekly regime may be used\*

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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 <u>Hypersensitivity; Management Prevention Policy.</u>

## **Main Toxicities:**

Nivolumab	
Immune-Mediated Pneumonitis	Monitor patients for signs and symptoms and evaluate with radiographic imaging and
Pneumonitis occurred in 3% of melanoma patients (including G3 in 0.2%).	administer corticosteroids for G2 or greater.
Immune-Mediated Colitis	Monitor patients for signs and symptoms and administer corticosteroids for G2 or greater.
Colitis occurred in 1% of patients (including G3 in 0.5%).	
Other Immune-Mediated Toxicities: Hepatitis	Monitor LFTs, biochemistry and TFTs
Hypophysitis Nephritis	As above, consider corticosteroids for G2 or greater
Hyperthyroidism or Hypothyroidism	
Less frequently:	
Exfoliative dermatitis, uveitis, arthritis, myositis, pancreatitis, haemolytic anaemia	
Other non-immune adverse events:	Symptomatic management for G1/G2
Fatigue, anaemia, cough, dyspnoea, nausea, decreased appetite, pruritis, rash,	Monitor diarrhoea – as this may be the first sign of colitis
constipation, diarrhoea, arthralgia	3. 333
Laboratory abnormalities:	Monitor at each cycle
Hyponatraemia, hypocalcaemia, hyperglycaemia, hypertriglyceridaemia	
hypergrycaenia, hyperingrycendaenia	

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## **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				х*		Every 12 weeks thereafter or as clinically indicated
SACT Assessment (to include PS and toxicities)	х	х	х			х	Every cycle
OTR/ Go-ahead	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	х	х	х	eligible		х	Every cycle
Lipid profile (cholesterol)	х			ıt if el		х	At baseline then if clinically indicated
Fatigue profile as per Meditech order set: B12, folate, Iron profile, vitamin D, Zinc, Testosterone (men only), ESR	х			e treatment if			At baseline then if clinically indicated
Full set of observations ( <i>BP</i> , hear rate, temperature, respiratory rate and O <sub>2</sub> sats)	х	х	х	Home	х	х	Every cycle
Creatinine Clearance (Cockcroft and Gault)	х						Every cycle only if baseline CrCL <40ml/min or creatinine increases above 1.5x upper limit of normal or baseline
CT scan**	х						Every 12 weeks/if clinically indicated
Trop-T, CK, pro-BNP	Х						At baseline for all Renal and
ECG	х						Melanoma and thereafter as clinically indicated (ECG to be reviewed by clinical team)
Weight recorded	Х	Х	Х			Х	Every cycle

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Height recorded	Х			

<sup>\*</sup>Formal medical review (can be virtual) to assess the tolerability of treatment and whether treatment should continue (as per NHS England criteria).

Pregnancy test if applicable

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<sup>\*\*</sup>CT Scan only required every 6 months in adjuvant setting.



## **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.
- Detailed guidelines for the management of immune-related adverse reactions are provided in the <u>CCC Immuno-Oncology toxicity specific guidance for adverse event management</u>.

## Proceed on day 1 if:-

Platelets	Neutrophils	Serum Creatinine	Bilirubin	AST/ALT	Alkaline Phosphatase	TSH and Free T4
≥ 75 x 10 <sup>9</sup> /L	≥ 1.0 x 10 <sup>9</sup> /L	≥1.5 x ULN or baseline	<3 x ULN <sup>a</sup>	<5 x ULN	<5 x ULN	Within range or no change from base line

<sup>&</sup>lt;sup>a</sup> ULN = upper limit of normal

Platelets must be within normal range prior to Cycle 1.

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## Non-haematological toxicity

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 ≤ 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.

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## References:

Opdivo 10mg/mL, Summary of Product Characteristics, Bristol-Myers Squibb Pharmaceutical Limited. Available from <a href="https://www.medicines.org.uk/emc/medicine">www.medicines.org.uk/emc/medicine</a>.

Last updated 23rd March 2021

NICE TA 684 Nivolumab for adjuvant treatment of completely resected melanoma with lymph node involvement or metastatic disease. Published: 17 March 2021

NICE: TA 746 Nivolumab for adjuvant treatment of resected oesophageal or gastro-oesophageal junction cancer.

Published date: November 2021

NHS England - Cancer Drugs Fund Application Form – Nivolumab as adjuvant monotherapy for patients with completely resected oesophageal or gastro-oesophageal carcinoma who have residual pathological disease at surgery following prior neoadjuvant chemoradiotherapy (ID1676) - NIV17\_ver1.0 (available at <a href="https://www.blueteq-secure.co.uk/trust/default">https://www.blueteq-secure.co.uk/trust/default</a>, accessed November 2021)

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## **Circulation/Dissemination**

Date added into Q-Pulse	20 <sup>th</sup> January 2022
Date document posted on the Intranet	N.A

**Version History** 

Version	motory	Author name and designation	Summary of main changes
		Wesley Artist Skin SRG Pharmacist	New Regimen Protocol V1.0
		Wesley Artist Skin SRG Pharmacist	4 weekly dosing added V1.1
		Hala Ghoz Lead Pharmacist for protocols	Aligned with standard IO protocol template UGI adjuvant indication added V1.2

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