

Systemic Anti Cancer Therapy Protocol

Nivolumab with FOLFOX OR CAPOX Metastatic Squamous Cell Carcinoma of the Oesophagus

PROTOCOL REF: MPHANFCOE

(Version No.: 1.0)

Approved for use in:

Nivolumab in combination with platinum and fluoropyrimidine-based chemotherapy for previously untreated unresectable advanced or recurrent or metastatic squamous cell carcinoma of the oesophagus with a tumour cell PD-L1 expression of ≥1% and a PD-L1 combined positive score of <10

The patient has not received prior treatment with any antibody which targets PD-1 or PD-L1 or PD-L2 or CD137 or OX40 or anti-cytotoxic T-lymphocyte-associated antigen-4 (CTLA-4).

ECOG performance status (PS) 0 or 1.

Please NOTE: for previously untreated advanced or metastatic HER-2 negative adenocarcinomas of the stomach, gastro-oesophageal junction or oesophagus please use the alternative protocol

******Blueteq registration is required*****

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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)

Patient with active symptomatic CNS disease or carcinomatosis meningitis

Dosage:

Nivolumab + FOLFOX

Drug	Dosage	Route	Frequency
Nivolumab	240mg	IV infusion	2 weekly for 12 cycles and then 4 weekly maintenance as 480mg for 2 years*
Oxaliplatin	85mg/m ²		
Folinic Acid	350mg		O vya akhi fari 40 ayalaa
Fluorouracil	400mg/m ²		2 weekly for 12 cycles
Fluorouracil	2400mg/m ²		

OR

Nivolumab + CAPOX

Drug	Dosage	Route	Frequency
Nivolumab	360mg	IV infusion	3 weekly for 6 cycles and then 480mg 4 weekly maintenance for 2 years*
Oxaliplatin	130 mg/m ²	IV infusion	3 weekly for 6 cycles
Capecitabine	625 mg/m ² twice a day	РО	21 days continuous for 6 cycles

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*To continue until disease progression or unacceptable toxicity or after 2 years of treatment whichever is first, regardless of any treatment breaks

Supportive Treatments:

Metoclopramide 10mg oral tablets, up to 3 times a day or as required (total of 5 days supply)

Dexamethasone tablets 4mg twice daily for 3 days

Ondansetron 8mg twice a day for 3 days when required for nausea and vomiting.

Extravasation risk:

Nivolumab - neutral

Oxaliplatin- irritant

Fluorouracil- irritant

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

Dosing in renal and hepatic impairment:

	Oxaliplatin	GFR ≥ 30 ml/min: no dose adjustment is needed GFR < 30 ml/min and haemodialysis: consider 50% of the original dose.			
	Fluorouracil	No dose adjustment is needed			
		GFR	Capecitabine		
Renal	Capecitabine	(mL/min)	dose		
Kellal		≥ 60	100% dose		
		50 to 59	100% dose		
		30 to 49	75% dose		
		< 30	Omit		
	Nivolumab (prior to start of treatment ONLY/Baseline)	eGFR < 30ml/min - limited data use with caution			

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	Oxaliplatin	No dose adjustment is needed
	Fluorouracil	Mild (bilirubin >1.0-1.5 x ULN and any AST or bilirubin ≤ULN and AST >ULN) and moderate (bilirubin 1.5-3 x ULN, with normal or raised AST)- no dose adjustment Severe (bilirubin >3.0-10 x ULN, with normal or raised AST) - not recommended.
Hepatic	Capecitabine	No dose adjustment required for hepatic impairment at baseline BUT if bilirubin increases to 3 times ULN or ALT/AST to 2.5 times ULN subsequent to treatment then omit capecitabine until liver function recovers
	Nivolumab (prior to start of treatment ONLY/Baseline)	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

Nivolumab

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

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Capecitabine

- Tablets should be taken 12 hours apart, swallowed whole with plenty of water within 30 minutes of a meal.
- Do not add doses missed due to toxicity onto the end of the cycle. Continue according to the treatment plan and stop taking on the originally scheduled day.
- Take missed doses if remembered within 2 hours of the normal scheduled time. Otherwise continue with the next scheduled dose. Do not double up missed doses
- In case of swallowing difficulties the tablets may be dissolved in 200ml warm water. Once dissolved stir the contents with a spoon and drink immediately.
 Wash well and reserve the glass and spoon for chemotherapy administration only.

Administration:

2-weekly Nivolumab + FOLFOX for 12 cycles

Day(s)	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		
1	Dexamethasone	8mg	РО	30 minutes before chemotherapy		
	Ondansetron	16mg	PO	30 minutes before chemotherapy		
	CHANGE ADMINISTRATION LINE BEFORE STARTING OXALIPLATIN INFUSION					
1	Oxaliplatin	85mg/m ²	IV	500mL Glucose 5% infusion over 2 hours		
Ox	Oxaliplatin and Folinic Acid given at same time concomitantly					
1	Folinic Acid	350mg	IV	250mL Glucose 5% infusion over 2 hours		

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FI	luorouracil	400mg/m ²	IV	Bolus over 5 minutes
1 FI	luorouracil	2400mg/m ²	IV	46 hour continuous infusion in Sodium Chloride 0.9%

Followed by maintenance single agent Nivolmab

Drug	Dosage	Route	Frequency
Nivolumab	480mg	IV infusion	4 weekly to complete 2 years**

OR

3-weekly Nivolumab+ CAPOX for 6 cycles

Day	Drug	Dosage	Route	Diluent and Rate
				100mL sodium chloride
	Nivolumab	360mg	IV infusion	0.9%. Infused over 30
	Nivolumab	Soonig	IV IIIIUSIOII	minutes in a non-pyrogenic
				line with a 0.2 micron filter
	Dexamethasone	8ma	PO	30 minutes before
1		8mg	PO	chemotherapy
	Ondansetron	16mg	PO	30 minutes before
		16mg	PO	chemotherapy
	CHANGE AD	MINISTRATION LIN	E BEFORE ST	ARTING OXALIPLATIN
	INFUSION	WHEN NIVOUMAB	HAS BEEN AD	MINISTERED FIRST
	Oxaliplatin	130mg/m ²	IV infusion	500mL Glucose 5%
	Oxalipiatili	130111g/111	IV IIIIUSION	infusion over 2 hours
Days	Capecitabine	625 mg/m ²	PO	Twice daily, morning and
1 to 21	Capecitabilie	020 mg/m	10	evening continuously

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Followed by maintenance single agent Nivolumab

Drug	Dosage	Route	Frequency
Nivolumab	480mg	IV infusion	4 weekly to complete 2 years**

^{**}To continue until disease progression or unacceptable toxicity or after 2 years of treatment. NHS England expects the 4-weekly dosing of nivolumab to be used once chemotherapy has been discontinued.

If toxicities present, the immunotherapy can be held at the consultant's discretion

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

For management of acute cold related dysaesthesia (CRD) or laryngopharyngeal dysaesthesia as a result of oxaliplatin administration, please refer to 'Main Toxicities' section.

Interactions:

Refer to SmPC for full list of interactions

Capecitabine/fluorouracil

Phenytoin – potentially toxic levels of phenytoin have been reported- monitor carefully Warfarin and other coumarin anticoagulants – increased bleeding risk, monitor INR carefully, consider switch to LMWH

Sorivudine and analogues – Potentially fatal interaction – avoid completely Allopurinol – reduced efficacy of capecitabine – avoid

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Increased risk of agranulocytosis with clozapine.

Cimetidine, metronidazole and interferone may increase the plasma level of 5-fluorouracil, thereby increasing the toxicity of 5-fluorouracil.

Fluorouracil enhances the action of other cytostatic drugs and irradiation therapy. Avoid live vaccines.

Oxaliplatin

Caution should be exercised in patients with a history or a predisposition for prolongation of QT, those who are taking medicinal products known to prolong QT interval (amiodarone, citalopram, domperidone) and those with electrolyte disturbances such as hypokalemia, hypocalcaemia, or hypomagnesaemia. In case of QT prolongation, oxaliplatin treatment should be discontinued.

Nivolumab

No known interactions

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.

Nivolumab	
Immune-Mediated	Refer to Immuno-Oncology toxicity specific guidance for
Pneumonitis	adverse event management
Pneumonitis occurred in 3%	
of melanoma patients	
(including G3 in 0.2%).	
Immune-Mediated Colitis	Refer to Immuno-Oncology toxicity specific guidance for
	adverse event management

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Colitis occurred in 1% of	
patients (including G3 in	
0.5%).	
Other Immune-Mediated	Monitor LFTs, biochemistry, cortisol and TFTs regularly
Toxicities:	
Hypophysitis	Refer to Immuno-Oncology toxicity specific guidance for
Nephritis	adverse event management
Hyperthyroidism or	
Hypothyroidism	
Less frequently:	
Exfoliative dermatitis,	
uveitis, arthritis,	
myositis, pancreatitis,	
haemolytic anaemia	
Other non-immune adverse	Refer to Immuno-Oncology toxicity specific guidance for
events:	adverse event management
Fatigue, anaemia	
Cough, dyspnoea	
Nausea, decreased appetite	
Pruritis, rash	
Constipation, diarrhoea	
Arthralgia	
Laboratory abnormalities:	Refer to Immuno-Oncology toxicity specific guidance for
Hyponatraemia,	adverse event management
hypocalcaemia,	
hyperglycaemia,	
hypertriglyceridaemia	

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Capecitabine / Fluorouracil			
DPD deficiency – leads to sev	iciency – leads to severe early fluorouracil/capecitabine toxicity, affects		
approximately 3% of population, may be life threatening.			
Chest pain, coronary artery			
	clinical team, if symptoms persist sto		
spasm Stomatitis	If mouth ulcers or > grade 2 symptoms develop treat		
Stomatitis		·	
	symptomatically, delay treatment un	· ·	
	and reduce fluorouracil doses by 20°	%.	
	See table		
Diarrhoea	Treat diarrhoea between cycles sym		
	diarrhoea has not resolved by next of	cycle delay treatment by	
	1 week. If diarrhoea remains trouble	some or more than 1	
	delay is required reduce both fluorou	racil bolus and infusion	
	doses by 20% and continue at the lower dose unless further		
	toxicity occurs - See table		
PPE	Treat symptomatically, delay treatme	ent until resolved to	
	grade 1. Reduce fluorouracil doses (bolus and infusion) by		
	20% for subsequent doses if persistent troublesome PPE.		
	See table below.		
Oxaliplatin			
General toxicities	Infusion reactions, neurotoxicity, myd	elosuppression,	
	mucositis, diarrhoea, nausea and vomiting		
Neurotoxicity – see notes	Neurotoxicity Oxaliplatin dose		
below for specific cases	Grade 1 any duration or grade 2 <	85mg/m ²	
	7days but resolving before next		
	cycle		

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	Grade 2 persisting for 7 days or	65mg/m ²		
	Grade 3 resolved by next cycle			
	Grade 3 persisting to next cycle	Stop oxaliplatin		
	or any grade 4			
	If oxaliplatin is discontinued, review	the infusional dose of		
	fluorouracil and consider increasing	to 2800mg/m ²		
Acute cold related	Transient paraesthesia of hands and	l feet as well as		
dysaesthesia (CRD)	laryngopharyngeal dysaesthesia (un	pleasant sensations in		
	throat) is common. Onset is during o	r within hours of		
	infusion and it resolves in minutes or	days. Symptoms are		
	exacerbated by cold – advise patien	ts on suitable		
	precautions e.g. avoid cold drinks. S	hould not require dose		
	reduction, but if troublesome then infusion duration can be			
	increased to 6 hours (or 4 hours whe	ere oncologist and		
	treating team agree dependent on severity of reaction and			
	tolerability of the infusion over this time)			
Laryngopharyngeal	Stop infusion, provide symptomatic t	reatment. Resume at		
dysaesthesia	slower infusion rate. Give subseque	nt infusions over 6		
	hours (or 4 hours where oncologist a	and treating team agree		
	dependent on severity of reaction ar	d tolerability of the		
	infusion over this time)			
Cumulative dose related	Usually occurs after a cumulative do	se of 800mg/m ² . It can		
sensory neuropathy	occur after treatment is completed, is	s usually reversible		
	taking about 3-5 months to recover			
Allergic reactions during	Stop the infusion and call for help. F	ollow trust anaphylaxis		
infusion	policy. Treat with IV corticosteroid a	nd antihistamine.		
	Discuss continuing with fluorouracil a	alone or re-challenge		
	with the consultant.			

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Investigations and treatment plan (please refer to the appropriate investigations table as per regimen used):

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

Nivolumab + FOLFOX

	Pre	Cycle 1	Cycle 2	Cycle 3	Ongoing
Informed Consent	Х				
Clinical Assessment	x	Review pre c2	x* keep this review if immunotherapy added form C2		Every 6-12 weeks thereafter or as clinically indicated (alternate cycle) can go 12 weeks if well maintained on treatment in selected cases
SACT Assessment (to include PS and toxicities)	х	х	x	X	Every cycle
OTR	х	х	х	х	Prior to treatment with nivolumab Go-ahead NOT required
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	х	Prior to each SACT containing nivolumab
FBC, U&E, renal profile, bone profile, magnesium, LFTs	х	х	x	х	Prior to treatment

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	1				NHS Foundation Trust
Lipid profile (cholesterol)	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				At baseline then if clinically indicated
Full set of observations (BP, hear rate, temperature, respiratory rate and O ₂ sats)	х	х	x	Х	Every cycle
Creatinine Clearance (Cockcroft and Gault)	х	х	×	х	Every cycle only if baseline CrCL <40ml/min or creatinine increases above 1.5x upper limit of normal or baseline
Dihydropyrimidine dehydrogenase (DPD) deficiency test	x				This test is normally only required if a patient has not had capecitabine, or fluorouracil in the past. However a consultant may still request this test if capecitabine or fluorouracil was not tolerated previously. The result must be available before administration of chemotherapy unless clear documentation from the consultant is available to the contrary. Treatment with capecitabine and fluorouracil is contraindicated in patients with known complete DPD deficiency.
CT scan**	х				Every 12 weeks/if clinically indicated
Trop-T, CK, pro-BNP	Х				At baseline and thereafter as clinically indicated
ECG	X		X	X	(ECG to be reviewed by clinical team)
Weight recorded	Х	Х	Λ	Λ	Every cycle
Height recorded	Х				

OR

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Nivolumab + CAPOX

	Pre	Cycle 1	Cycle 2	Prior to cycle 3	Cycle 3	Ongoing
Informed Consent	Х					
Clinical Assessment	x		Review pre c2	x* keep this review if immunotherapy added form C2		Every 6-12 weeks thereafter or as clinically indicated (-alternate cycle) can go 12 weeks if well maintained on treatment in selected cases
SACT Assessment (to include PS and toxicities)	х	х	х		х	Every cycle**
OTR	х		х		х	Every cycle prior to Nivolumab treatment. Go-ahead NOT required
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	x	x		x	Prior to every cycle containing nivolumab
Lipid profile (cholesterol)	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					At baseline then if clinically indicated
Full set of observations (<i>BP</i> , heart rate, temperature, respiratory rate and O ₂ sats)	х	х	х	x	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

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				NHS Foundatio	n Irust
					This test is normally only required if a
					patient has not had capecitabine, or
					fluorouracil in the past. However a
					consultant may still request this test if
					capecitabine or fluorouracil was not
Dihydropyrimidine					tolerated previously. The result must
dehydrogenase (DPD) deficiency	х				be available before administration of
test					chemotherapy unless clear
					documentation from the consultant is
					available to the contrary. Treatment
					with capecitabine and fluorouracil is
					contraindicated in patients with known
					complete DPD deficiency.
					1
CT scan**	Х				Every 12 weeks/if clinically indicated
Trop-T, CK, pro-BNP	Х				At baseline and thereafter as clinically
ECG	х				indicated
200	^				(ECG to be reviewed by clinical team)
Weight recorded	Х	Х	x	Х	Every cycle
Height recorded	Х				

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

**Monitor for symptoms of cardiotoxicity (peripheral oedema, progressive breathlessness, chest pain- please hold treatment and refer patient back to clinical team as a matter of urgency)

Pregnancy test if applicable

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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 <u>CCC Immuno-Oncology toxicity specific guidance for adverse event</u> <u>management</u>.

Treatment Threshold

Administer treatment on day 1 if:

Platelets	Neutrophils	Serum Creatinine	Bilirubin	AST/ALT	Alkaline Phosphatase	TS
≥ 75 x 10 ⁹ /L	≥ 1.0 x 10 ⁹ /L	≤1.5 x ULN or baseline	<3 x ULN	<5 x ULN	<5 x ULN	W ch

ULN = upper limit of normal

Platelets must be within normal range prior to Cycle 1.

If platelets or ANC still below required levels for treatment at week 2, delay treatment again and patient will need assessment and chemotherapy dose reduction as follows

Lowest count since previous cycle	Oxaliplatin dose	Fluorouracil dose
Grade 3 / 4 neutropenia (<1.0 x10 ⁹ /L) or	65mg/m ² (metastatic)	80% bolus and
thrombocytopenia (<50 x 10 ⁹ /L)	75mg/m ² (adjuvant)	infusion

Toxicity management:

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

Please refer to the CCC clinical network immunotherapy acute oncology guidelines on the intranet for more detailed information

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.

Fluorouracil dose reductions for non haematological toxicity

	Non haematological toxicities (diarrhoea, stomatitis, PPE)			
grade	0-1 2 3 4			
1 st occurrence	100%	80%	50%	Stop treatment
2 nd occurrence	80%	70%	50%	Stop treatment
3 rd occurrence	50%	50%	50%	Stop treatment

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Version History

Date	Version	Author name and designation	Summary of main changes
Jan 2023	1.0	Gabriella Langton	New Regimen Protocol Version 1.0

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