

Systemic Anti Cancer Therapy Protocol

Nivolumab with FOLFOX OR CAPOX Advanced UGI

PROTOCOL REF: MPHANFCA (Version No.: 1.1)

Approved for use in:

Nivolumab in combination with platinum and fluoropyrimidine-based chemotherapy is recommended as **first line** treatment of unresectable locally advanced or metastatic disease as follows:

HER-2 negative **adenocarcinoma** of the stomach or gastro-oesophageal junction or oesophagus either of which expresses PD-L1 with a combined positive score (CPS) of 5 or more. Prior treatment with PD-1 or PD-L1 or PD-L2 or CD137 or OX40 or anticytotoxic T-lymphocyte-associated antigen-4 (CTLA-4) is ONLY permitted if treatment was discontinued or completed as part of adjuvant therapy without disease progression and at least 6 months has elapsed between the date of the last immunotherapy treatment and the date of first diagnosis of relapse with recurrent or metastatic disease.

OR

Squamous or adenosquamous cell carcinoma of the oesophagus with a tumour cell PD-L1 expression of ≥1% and a PD-L1 combined positive score of <10. 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) is NOT permitted.

ECOG performance status (PS) 0 or 1.

******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 <u>(can proceed with immunotherapy if</u> <u>well controlled autoimmune disease at the discretion of the clinical team, this needs to</u> 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 2 or 4 weekly maintenance* as 240mg or 480mg respectively for 2 years**
Oxaliplatin	85mg/m ²		
Folinic Acid	350mg		
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 2, 3 or 4 weekly maintenance as 240mg, 360mg or 480mg respectively for 2 years*
Oxaliplatin	130 mg/m ²	IV infusion	3 weekly for 6 cycles
Capecitabine	625 mg/m ² twice a day	PO	21 days continuous for 6 cycles

* Nivolumab 480mg 4-weekly should be administered in the maintenance phase unless there are clinical reasons (risk factors for toxicity are present e.g. pre-existing autoimmune disease or previous immunotherapy-induced toxicity) for using 2 or 3weekly dosing regimen. Nivolumab is to continue until disease progression or unacceptable toxicity or after 2 years of treatment whichever is first.

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 '<u>Prevention and Management of Extravasation Injuries</u>'.

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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		
	Capecitabine	GFR	Capecitabine	
Renal		(mL/min)	dose	
Renai		≥ 60	100% dose	
		50 to 59	100% dose	
		30 to 49	75% dose	
		< 30	Omit	
	Nivolumab			
	(prior to start of	GFR ≥ 30ml/min proceed with treatment		
	treatment	GFR < 30m	l/min- use with c	aution.
	ONLY/Baseline)			

	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

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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

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.

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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	xametnasone _{8mg} PO		30 minutes before chemotherapy
	Ondansetron	16mg	PO	30 minutes before chemotherapy
	CHANGE ADMIN	IISTRATION L	INE BEFC	DRE STARTING OXALIPLATIN INFUSION
1	Oxaliplatin	85mg/m ²	IV	500mL Glucose 5% infusion over 2 hours
	Oxaliplatir	and Folinic A	cid given a	at same time concomitantly
1	Folinic Acid	350mg	IV	250mL Glucose 5% infusion over 2 hours
	Fluorouracil	400mg/m ²	IV	Bolus over 5 minutes
1	Fluorouracil	2400mg/m ²	IV	46 hour continuous infusion in Sodium Chloride 0.9%

Followed by maintenance single agent Nivolumab

Day	Drug	Dosage	Route	Diluent and Rate	Frequency
1	Nivolumab	umab 480mg IV infusion		100mL sodium chloride0.9%. Infused over 60minutes in a non-pyrogenic line with a 0.2micron filter	
			0	R	
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	2 weekly to complete 2 years**

OR

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3-weekly Nivolumab + CAPOX for 6 cycles

Day	Drug	Dosage	Route	Diluent and Rate	
		200		100mL sodium chloride	
	Nivolumab		IV infusion	0.9%. Infused over 30	
	Nivolumab	360mg		minutes in a non-pyrogenic	
				line with a 0.2 micron filter	
	Dexamethasone	8mg	PO	30 minutes before	
1	Dexamethasone	ong	10	100mL sodium chloride 0.9%. Infused over 30 minutes in a non-pyrogenic line with a 0.2 micron filter 30 minutes before chemotherapy 30 minutes before chemotherapy OXALIPLATIN INFUSION ERED FIRST	
	Ondansetron	16mg	PO	30 minutes before	
				chemotherapy	
	CHANGE ADMINISTRATION LINE BEFORE STARTING OXALIPLATIN INFUSION				
	WHEI	N NIVOLUMAB HAS	BEEN ADMINIS	STERED FIRST	
	Oxaliplatin 130mg/m ²		IV infusion	500mL Glucose 5% infusion	
	Oxanpiatin	130mg/m ²		over 2 hours	
Days	Capecitabine	625 mg/m ²	PO	Twice daily, morning and	
1 to 21	Capeenabine	020 mg/m	10	evening continuously	

Followed by maintenance single agent Nivolumab

Day	Drug	Dosage	Route	Diluent and Rate	Frequency		
1	1Nivolumab480mgIV100mL sodium chloride0.9%.Infusion0.9%.Infused over 60infusioninfusionminutes in a non-pyrogenicline with a 0.2 micron filter				4 weekly To complete 2 years**		
	OR						
1	1Nivolumab360mgIV100mL sodium chloride 0.9%. Infused over 30 minutes in a non-pyrogenic line with a 0.2 micron filter3 weekly 						
	OR						

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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	2 weekly to complete 2 years**
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NOTE: **Nivolumab 480mg 4-weekly should be administered in the maintenance phase unless there are risk factors for toxicity are predisposing to toxicity e.g. preexisting autoimmune disease or previous toxicity, then 2 or 3-weekly regimen may be used instead. Nivolumab to continue until disease progression or unacceptable toxicity or after 2 years of treatment whichever occurs first.

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>

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

The use of systemic corticosteroids and other immunosuppressants before starting nivolumab should be avoided because of their potential interference with the pharmacodynamic activity. But they can be used after starting nivolumab to treat immune-related adverse reactions. Studies have shown show that systemic immunosuppression after starting nivolumab treatment does not appear to preclude the response on nivolumab.

Main Toxicities:

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

Nivolumab			
Immune-Mediated	Refer to Immuno-Oncology toxicity specific guidance for		
Pneumonitis	adverse event management		

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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
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	

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Laboratory abnormalities:	Refer to Immuno-Oncology toxicity specific guidance for
Hyponatraemia,	adverse event management
hypocalcaemia,	
hyperglycaemia,	
hypertriglyceridaemia	
Capecitabine / Fluorouracil	
DPD deficiency - leads to several	vere early fluorouracil/capecitabine toxicity, affects
approximately 3% of population	on, may be life threatening.
Chest pain, coronary artery	Stop fluorouracil, standard angina investigations, refer to
spasm	clinical team, if symptoms persist stop permanently
Stomatitis	If mouth ulcers or > grade 2 symptoms develop treat
	symptomatically, delay treatment until resolved to grade 1
	and reduce fluorouracil doses by 20%.
	See table
Diarrhoea	Treat diarrhoea between cycles symptomatically. If
	diarrhoea has not resolved by next cycle delay treatment by
	1 week. If diarrhoea remains troublesome or more than 1
	delay is required reduce both fluorouracil bolus and infusion
	doses by 20% and continue at the lower dose unless further
	toxicity occurs - See table
PPE	Treat symptomatically, delay treatment 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, myelosuppression,
	mucositis, diarrhoea, nausea and vomiting

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Neurotoxicity – see notes			
below for specific cases	Neurotoxicity	Oxaliplatin dose	
	Grade 1 any duration or grade 2 <	85mg/m ²	
	7days but resolving before next		
	cycle		
	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		
		<u> </u>	
	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	d feet as well as	
dysaesthesia (CRD)	laryngopharyngeal dysaesthesia (un	pleasant sensations in	
	throat) is common. Onset is during or within hours of		
	infusion and it resolves in minutes or	r days. Symptoms are	
	exacerbated by cold – advise patients 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 where oncologist and		
	treating team agree dependent on severity of reaction and		
	tolerability of the infusion over this til	me)	
Laryngopharyngeal	Stop infusion, provide symptomatic treatment. Resume at		
dysaesthesia	slower infusion rate. Give subsequent infusions over 6		
	hours (or 4 hours where oncologist a	and treating team agree	
	dependent on severity of reaction and tolerability of the		
	infusion over this time)		

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Cumulative dose related	Usually occurs after a cumulative dose of 800mg/m ² . It can
sensory neuropathy	occur after treatment is completed, is usually reversible
	taking about 3-5 months to recover
Allergic reactions during	Stop the infusion and call for help. Follow trust anaphylaxis
infusion	policy. Treat with IV corticosteroid and antihistamine.
	Discuss continuing with fluorouracil alone or re-challenge
	with the consultant.

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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	Prior to Cycle 2	Cycle 2	Prior to cycle 3	Cycle 3	Ongoing
Informed Consent	х						
Clinical Assessment	x		х		x* keep this review if IO added from C2		Prior to cycle 2 then 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		х	Every cycle**
OTR	x			х		х	Every cycle prior to Nivolumab treatment. Not required for CAPOX/FOLFOX ONLY cycles 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		x		x	Every cycle
Lipid profile (cholesterol)	x					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	x						At baseline then if clinically indicated
Full set of observations (<i>BP</i> , heart rate, temperature, respiratory rate and O ₂ sats)	x	х		х		х	Every cycle

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				NHS	Foundation Tru	
Creatinine Clearance (Cockcroft and Gault)	x					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**	x					Every 12 weeks/if clinically indicated
Trop-T, CK, pro-BNP	х					At baseline and thereafter as
ECG	x					clinically indicated Refer to <u>'Pre-assessment Baseline</u> <u>Cardiac Pathway</u> '
Weight recorded	х	х	х		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.
- Dose modifications due to toxicity are ONLY permitted on chemotherapy agents (fluorouracil, capecitabine and oxaliplatin).
- Only dosing delay or discontinuation due to toxicity are permitted for nivolumab.
- If toxicities present, the immunotherapy can be held and the chemotherapy continued at the discretion of the clinical team.
- Guidelines for permanent discontinuation or withholding of nivolumab doses are contained in 'Treatment Threshold' section below.
- Detailed guidelines for the management of immune-related adverse reactions are provided in the <u>CCC Immuno-Oncology</u> toxicity specific guidance for adverse event management.

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Treatment Threshold

Administer treatment on day 1 if:

SACT	Platelets	Neutrophils	Serum Creatinine	Bil	AST/ ALT	ALP	TSH and Free T4
Nivolumab	≥ 100 x 10 ⁹ /L (Must be	≥ 1.0 x 10 ⁹ /L	≤1.5 x ULN or baseline	<3 x ULN	<5 x ULN	<5 x ULN	Within range or no change from base line
Flourouracil, capecitabine and oxaliplatin	within normal range prior to cycle 1*)		<u>hepatic in</u> recommen for carbopla	mpairm ded doa atin and	l paclitaxe nal and he	on for cations el based	

ULN = upper limit of normal

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	80% bolus and
thrombocytopenia (<50 x 10 ⁹ /L)		infusion

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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 ≤ 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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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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References:

Capecitabine Accord 150mg fil-coated tablets, Summary of Product Characteristics, Accord Healthcare Limited. Available from www.medicines.org.uk/emc/medicine. Last updated 17th May 2021.

Fluorouracil 25mg/ml injection, Summary of Product Characteristics, Hospira UK Limited. Available from www.medicines.org.uk/emc/medicine. Last updated 17th May 2021.

Krens S D, Lassche, Jansman G F G A, et al. Dose recommendations for anticancer drugs in patients with renal or hepatic impairment. Lancet Oncol 2019; 20: e201–08.

NICE TA (TA867) Nivolumab with platinum- and fluoropyrimidine-based chemotherapy for untreated HER2-negative advanced gastric, gastro-oesophageal junction or oesophageal adenocarcinoma. Published: 11 January 2023.

NICE TA (TA865) Nivolumab with fluoropyrimidine- and platinum-based chemotherapy for untreated unresectable advanced, recurrent, or metastatic oesophageal squamous cell carcinoma. Published: 8th February 2023.

OPDIVO 10 mg/mL concentrate for solution for infusion, Summary of Product Characteristics, Bristol Myers Squibb Pharmaceuticals limited. Available from www.medicines.org.uk/emc/medicine. Last updated 4th November 2022.

Oxaliplatin Hospira 5mglml concentrate for solution for infusion, Summary of Product Characteristics, Hospira UK Limited. Available from www.medicines.org.uk/emc/medicine. Last updated 13th April 2021.

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Version History

Date	Version	Author name and designation	Summary of main changes
April 2023	1.0	Gabriella Langton Advanced Pharmacist- NMP	New Regimen Protocol Version 1.0
April 2023	1.1	Hala Ghoz Lead Protocols Pharmacist	Amalgamated V1.0 of both Nivolumab + CAPOX and Nivolumab + FOLFOX into single protocol

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