Indication	For the treatment of persistent, recurrent or metastatic cervical cancer in patients whose tumour PD-L1 expression test results have a combined positive score >/=1 and who have not
	been previously treated with any systemic chemotherapy or have only received chemotherapy
	which has been used as a radio-sensitising agent or as neo adjuvant chemotherapy prior to
	chemoradiotherapy.
	The patient cannot have received prior treatment with an anti PD-1 or anti PD-L1 or anti PD-L2
	or CD137 or OX40 or anti-cytotoxic T-lymphocyte-associated antigen-4 (CTLA-4)
	unless the patient has received pembrolizumab via the MSD company early access scheme.
Treatment Intent	Palliative
Frequency and	Every 21 days
number of	
cycles	For 6 cycles of pembrolizumab, paclitaxel & carboplatin with or without bevacizumab, followed
eyeles	by pembrolizumab with or without bevacizumab continuing until progressive disease or
	unacceptable toxicity or withdrawal of patient consent or a maximum duration of 2 years (35 x
	21 day cycles or its equivalent if 6 weekly pembrolizumab is used, including the initial 6 cycles),
	whichever occurs first.
	Patients who have completed 2 years of bevacizumab and pembrolizumab <b>and</b> are still
	benefitting from treatment can continue with <b>bevacizumab monotherapy</b> until disease
	•
	progression.
	A formal medical review must be scheduled to occur by the end of the first 6 weeks of treatment
	to assess tolerance and whether to continue with treatment or not.
Monitoring	Virology screening: All new patients referred for systemic anti-cancer treatment should be
Parameters	screened for hepatitis B and C and the result reviewed prior to the start of treatment.
pre-treatment	Patients not previously tested who are starting a new line of treatment, should also be
pre treatment	screened for hepatitis B and C. Further virology screening will be performed following
	individual risk assessment and clinician discretion.
	Blood parameters:     Monitor EPC LIPE Call and glucose at each cycle
	<ul> <li>Monitor FBC, U&amp;Es, LFTs, LDH, Ca++ and glucose at each cycle.</li> <li>Cycles 1 Cycles 1 Cycles at a state of a sta</li></ul>
	• <b>Cycles 1-6:</b> If neuts <1.5 and/or PLT <100 defer treatment by one week and consider
	dose reduction of paclitaxel and carboplatin on subsequent cycles.
	• Cycles 7 onwards: If PLT <75 or neuts <1.0 d/w consultant.
	<ul> <li>ECG should be checked prior to cycle 1 and undertake ECHO/MUGA at baseline if clinically indicated.</li> </ul>
	<ul> <li>Thyroid function must be assessed at baseline then every 6 weeks or as clinically indicated.</li> </ul>
	<ul> <li>Cortisol monitoring should be undertaken in line with ESMO immunotherapy toxicity</li> </ul>
	guidance available on KMCC website (see link below). Cortisol level should not be taken
	within 24 hours of the last steroid dose.
	<ul> <li>EDTA should be used to measure GFR prior to cycle 1. C+G to estimate CrCl may only be</li> </ul>
	used before CYCLE 1 when there is a delay in obtaining EDTA result.
	<ul> <li>Bevacizumab specific monitoring:</li> </ul>
	<ul> <li>Monitor blood pressure at each cycle. Pre-existing hypertension should be adequately controlled before starting treatment. Report to consultant if BP &gt;/=140/90. Reference</li> </ul>
	should be made to KMCC guidelines for bevacizumab induced hypertension.
	<ul> <li>Dipstick urine for proteinuria at each cycle. See table 1 for guidance on proteinuria.</li> </ul>
	<ul> <li>Monitor for signs and symptoms of myocarditis. Carry out ECG as clinically indicated.</li> </ul>

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Supersedes	V1	Checked by	C.Waters	
version		O.Adebayo		
Date	25.01.2024	Authorising consultant (usually NOG Chair)	L.Kivat	

	<ul> <li>Caution should be exercised when treating patients with clinically significant cardiovascular disease such as pre-existing coronary artery disease, or congestive heart</li> </ul>
	failure.
•	Hepatic impairment:
	• Pembrolizumab
	<ul> <li>Prior to treatment: No dose adjustment is needed for patients with mild or moderate</li> </ul>
	hepatic impairment. Pembrolizumab has not been studied in patients with severe
	hepatic impairment d/w consultant.
	<ul> <li>During treatment: For immune related hepatitis see immune related toxicity guidance below.</li> </ul>
	<ul> <li>Bevacizumab: no dose recommendations.</li> <li>Paclitaxel: If bilirubin &lt; 1.25 x ULN and transaminase &lt; 10 x ULN, dose at full dose.</li> </ul>
	Otherwise consider dose reduction, not recommended in severe hepatic impairment.
	<ul> <li>Carboplatin: no dose recommendations.</li> </ul>
•	Renal impairment:
•	<ul> <li>Pembrolizumab: No specific dose adjustment is necessary in patients with mild to</li> </ul>
	moderate renal impairment. Severe renal impairment (CrCl<30ml/min) d/w consultant.
	<ul> <li>Bevacizumab: no dose recommendations.</li> </ul>
	<ul> <li>Paclitaxel: no dose reduction necessary.</li> </ul>
	<ul> <li>Carboplatin: Discuss with consultant if creatinine clearance drops by 25%. Stop if</li> </ul>
	CrCl<30ml/min.
•	Dose Modification
	• <b>Paclitaxel:</b> Dose reduce by 20% in the event of grade /=> 2 neuropathy and consider
	delay until recovery to = grade 1. Consider omitting paclitaxel in event of recurrent</td
	grade >/=3 neuropathy OR recurrent or persistent >/=grade 2 neuropathy following a
	dose reduction.
	• Dose reduction of <b>carboplatin</b> and <b>paclitaxel</b> should be considered if any other grade 3
	or 4 non-haematological toxicity or repeat appearance of grade 2 (except N&V and
	alopecia). Delay until resolution of toxicity to = grade 1.</td
	• <b>Pembrolizumab:</b> dose reductions are not recommended. Dosing delay or
	discontinuation may be required based on individual safety and tolerability. If
	chemotherapy is delayed, pembrolizumab should also be delayed.
	• Bevacizumab: Dose reduction for adverse reactions is not recommended. If indicated,
	therapy should either be permanently discontinued or temporarily suspended. If
	chemotherapy is delayed, bevacizumab should also be delayed.
•	Infusion-related reactions: If the infusion related reaction can be attributed to a particular
	agent, treat as follows:
1	• <b>Pembrolizumab:</b> Severe infusion-related reactions have been reported in patients
	receiving pembrolizumab. For severe infusion reactions (grade 3-4), infusion should be
	stopped and pembrolizumab permanently discontinued. Patients with mild or
	moderate infusion reaction may continue to receive pembrolizumab with close
	monitoring; premedication with antipyretic and antihistamine may be considered.
1	• <b>Bevacizumab:</b> If a patient experiences a mild infusion-related reaction, give the next
	infusion over 60 - 90 minutes +/- chlorphenamine cover. If this is tolerated, reduce the
	infusion time for the next doses in a step-wise fashion to a minimum of 30 minutes, and
	maintain that infusion time for all remaining doses.
	• Paclitaxel: Patients developing hypersensitivity reactions may be re-challenged with full
	dose paclitaxel following prophylactic medication (e.g. famotidine 40mg po given 4
	hours prior to treatment plus hydrocortisone 100mg iv and chlorphenamine 10mg iv 30
	minutes prior to treatment), then give paclitaxel over 3-6 hours (i.e. starting at over 6
	hours and gradually increase rate if possible).

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• Carboptatin: Mill/moderate reactions (grade 1-2): If symptoms resolve after treatment with hydrocortisone and chiorphenamine, the infusion may be restated at 50% rate for 30 mins, then, if no further reaction, increase to 100% rate. If symptoms do not resolve after treatment with hydrocortisone and chiorphenamine, do not restart the infusion. At consultant's discretion, patients may be re-challenged at a later data with additional prophylaxis. In the event of further reaction (grade 1-3), stop infusion and consider desensitisation regimen. Severe (grade 3): Do not restart infusion. Consider re-challenge with carboplatin desensitisation regimen. Anaphylaxis (grade 4): Follow anaphylaxis protocol. Discontinue permanently and consider alternative treatment.           • Management of adverse reactions may appear during or after treatment. The most commo immune-related adverse reactions. • Immune-related adverse reactions have been reported in patients receiving pembrolizumab: useltis, arthritis, myositis, pancreatiis, severe skin reactions, myasthenic syndrome, encephalitis, Guillam-Barre syndrome, optic neuritis, mbathomyolysis, soridosis, myocarditis, haemotytic anaemia and partial seizures arising in a patient with inflammatory foci in brain parenctivma. • See guidelines for management of immune-related adverse reactions following immunotherapy: https://www.kmcc.nbs.uk/medicines.and.prescribing-incorporating- sact_antway/immunotherapy.           • Cases of Stevens-Johnson syndrome (SIS) and toxic guidermal necrolysis (TEN), some with fatal outcome, have been reported. For signs or Syst Syst or TEN, pembrolizumab should be withheld and the patient should be referred to a specialised unit for assessment and treatment. If Sis or TEN is confirmed, pembrolizumab should be permanently discontinued.           • Pervore Nortione A special sub constrainestrin adverse reaction remains at <- 6 faide 1 and corticosterioi d	r					
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Version     V2     Written by     M.Archer       Supersedes     V1     Checked by     C.Waters       version     0.Adebayo	Protocol No	GYN-04		Kent and Medway SACT Protocol		
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Supersedes     V1     Checked by     C.Waters       version     O.Adebayo	Version	1/2			MArcher	
version O.Adebayo						
Date   25.01.2024   Authorising consultant (usually NOG Chair)   L.Kivat				-		
	Date	25.01.2	.024	Authorising consultant (usually NOG Chair)	L.Kivat	

		• Any suspected thrombosis and/or haemorrhage d/w consultant.
		• Patients with a history of arterial thromboembolism, diabetes or >65 years old should
		be treated with caution. Patients with thromboembolic reactions = Grade 3 need to</th
		be closely monitored.
		<ul> <li>Bevacizumab should be discontinued in patients with life-threatening (Grade 4)</li> </ul>
		thromboembolic reactions, including pulmonary embolism or (refer to spc for
		management).
	•	Common drug interactions (for comprehensive list refer to BNF/SPC):
		• <b>Pembrolizumab:</b> The use of systemic corticosteroids or immunosuppressants before
		starting pembrolizumab should be avoided; dexamethasone is permitted as prescribed
		within this protocol. Systemic corticosteroids or other immunosuppressants can be
		used after starting pembrolizumab to treat immune-related adverse reactions.
		• Vaccines should only be given where the benefit outweighs the risk and after discussion
		between consultant and patient.
		• <b>Bevacizumab:</b> Caution when used with drugs known to cause bleeding, concurrent use
		may increase risk.
		<ul> <li>Paclitaxel: Avoid concomitant use of paclitaxel with CYP2C8 or CYP3A4 inducers (e.g.</li> </ul>
		rifampicin, carbamazepine, phenytoin) and inhibitors (e.g. ketoconazole erythromycin,
		fluoxetine, gemfibrozil, clopidogrel, cimetidine, ritonavir, nelfinavir).
	•	Delayed or missed dose: If a planned dose is missed, the next dose should be administered
		as soon as possible. The administration schedule must be adjusted to maintain a 3-week
		interval between doses. Treatment breaks of up to 12 weeks beyond the expected 3-weekly
		cycle length are allowed but solely to allow any immune toxicities to settle.
	•	Driving & using machines: Pembrolizumab may have a minor influence on the ability to
		drive and use machines. Fatigue has been reported following administration of
		pembrolizumab.
	•	Each patient should be given a copy of the Keytruda ® patient alert card at each cycle.
		Patients must be advised to contact the oncology team or the 24-hour hot-line immediately
		if they experience any side effect, as some side effects worsen rapidly. Prompt management
		of side effects can ensure that the patient continues with treatment.
References	KM	ICC protocol GYN-046 V1 CDF list V1.284
		•

NB For funding information, refer to CDF and NICE Drugs Funding List

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1+ or 2+ on dipstick (0.3 – 2.9g/L)	3+ on dipstick (3 - 19g/L):	4+ on dipstick (>/=20g/L)
Continue with bevacizumab. No additional evaluation required	May have dose of bevacizumab as scheduled, but will need 24-hour urine collection to measure protein a few days before next cycle due. If 24hr protein result < 2g, continue with bevacizumab. With continued proteinuria monitoring via 24-hour urine before each dose. If the 24-hour protein level falls to < 1g/24hr, return to dipstick analysis. If >/=2g, withhold bevacizumab until repeat 24-hour urine collection shows < 2g protein. Then re-introduce bevacizumab, with continued proteinuria monitoring via 24-hour urine.	Withhold bevacizumab. 24-hour urine collection required. Follow 24-hour urine monitoring and guidance as for 3+ on dipstick.

Table 1: Bevacizumab induced proteinuria

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## CYCLES 1-6: Repeat every 21 days

NB Pembrolizumab may alternatively be given at a dose of 400mg iv every 6 weeks

Day	Drug	Dose	Route	Infusion	Administration
				Duration	
1	Metoclopramide	20mg	PO		Stat
	PEMBROLIZUMAB	200mg	IV	30 min	In 100ml Sodium Chloride 0.9% via in-line low- protein binding 0.22 microns filter. Flush the line with sodium chloride 0.9% for injection at the end of the infusion
	Give pre-meds 30 min	utes prior to pacli	taxel		
	Dexamethasone	16mg*	IV		
	Chlorphenamine	10mg	IV	bolus	
	Ondansetron	<75yrs 16mg >/=75yrs 8mg	IV	15min	In 50ml sodium chloride 0.9%
	PACLITAXEL	175mg/m²	IV	Over 3 hours	Diluted in 500ml sodium chloride 0.9% (Use non-PVC bag and non-PVC administration set) Via in-line 0.22micron filter Doses <150mg in 250ml 0.9% sodium chloride.
	CARBOPLATIN	(AUC 5) Dose = AUC X (GFR + 25) (max 700mg)	IV	30min	500ml glucose 5%
	(+/-) BEVACIZUMAB	15mg/kg	IV	30min	In a total of 100mls sodium chloride 0.9% Flush the line with sodium chloride 0.9% for injection at the end of the infusion.
	*From 3 <sup>rd</sup> infusion dex	amethasone may	be redu	ced to 12mg	; IV
TTO	Drug	Dose	Route		
Day 1	Dexamethasone	6mg	PO	3 times a day for 3 days, then 10mg up to 3 times a day as required (max. 30mg per day including 20mg pre-	
	Metoclopramide	10mg	PO		

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## Cycle 7-35: repeat every 21 days

NB Pembrolizumab may alternatively be given at a dose of 400mg iv every 6 weeks Switch patients to 6 weekly dosing where clinically appropriate

Day	Drug	Dose	Route	Infusion Duration	Administration
1	Metoclopramide	20mg	PO	Duration	Stat
	PEMBROLIZUMAB	200mg	IV	30 min	In 100ml Sodium Chloride 0.9% via in-line low- protein binding 0.22 microns filter. Flush the line with sodium chloride 0.9% for injection at the end of the infusion.
	(+/-) BEVACIZUMAB	15mg/kg	IV	30min	In a total of 100mls sodium chloride 0.9% Flush the line with sodium chloride 0.9% for injection at the end of the infusion.
TTO	Drug	Dose	Route	Directions	
Day 1	Metoclopramide	10mg	РО	10mg up to 3 times a day as required (max. 30mg per day including 20mg pre-chemo dose) Do not take for more than 5 days continuously.	

Cycle 36 onwards - ONLY for patients receiving bevacizumab as part of regimen Repeat every 21 days

Day	Drug	Dose	Route	Infusion Duration	Administration
1	BEVACIZUMAB	15mg/kg	mg/kgIV30 minIn a total of 100mls sodium c		In a total of 100mls sodium chloride 0.9% Flush the line with sodium chloride 0.9% for injection at the end of the infusion.

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Date	25.01.2024	Authorising consultant (usually NOG Chair)	L.Kivat			