Protocol Contains	CHECKPOINT INHIBITOR IMMUNOTHERAPY					
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	Palliative					
Intent						
Frequency and	Every 21 days					
number of						
cycles	For 6 cycles of pembrolizumab, paclitaxel & carboplatin with or without bevacizumab, followed					
	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 heyesizumah and nombrelizumah and are still					
	Patients who have completed 2 years of bevacizumab and periodizumab and are still benefitting from treatment can continue with bevacizumab monotherapy 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					
	screened for hepatitis B and C. Further virology screening will be performed following					
	individual risk assessment and clinician discretion.					
	Blood parameters:					
	 Monitor FBC, U&Es, LFTs, LDH, Ca++ and glucose at each cycle. 					
	 Cycles 1-6: 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. 					
	Pre-treatment cardiac assessment:					
	 ECG baseline and as clinically indicated. 					
	• Check BNP, and Troponin T prior to treatment.					
	 Undertake ECHO/MUGA at baseline if clinically indicated. 					
	• Thyroid function must be assessed at baseline then every 6 weeks or as clinically indicated.					
	Cortisol monitoring should be undertaken in line with ESMO immunotherapy toxicity					
	guidance available on KMCC website (see link below). Cortisol level should not be taken					
	within 24 hours of the last steroid dose.					
	• EDTA should be used to measure GFR prior to cycle 1. C+G to estimate CrCl may only be					
	used before CYCLE 1 when there is a delay in obtaining EDTA result.					
	Bevacizumab specific monitoring:					

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	• Monitor blood pressure at each cycle. Pre-existing hypertension should be adequately
	controlled before starting treatment. Report to consultant if BP >/=140/90. Reference
	should be made to KMCC guidelines for bevacizumab induced hypertension.
	 Dipstick urine for proteinuria at each cycle. See table 1 for guidance on proteinuria.
	 Monitor for signs and symptoms of myocarditis. Carry out ECG as clinically indicated.
	 Caution should be exercised when treating patients with clinically significant
	cardiovascular disease such as pre-existing coronary artery disease, or congestive heart
	failure
•	Henatic impairment:
•	
	 Prior to treatment: No dose adjustment is needed for natients with mild or moderate
	henatic impairment. Pembrolizumah has not heen studied in patients with severe
	hepatic impairment d/w consultant
	 During treatment: For immune related henatitis see immune related toxicity guidance
	helow
	 Bevacizumah: no dose recommendations
	\circ Bacilitate: If hilinghin < 1.25 x 10 h and transaminase < 10 x 10 h l dose at full dose
	Otherwise consider doce reduction not recommended in severe benetic impairment
	• Carbonistic: no doso recommondations
•	Benal impairment
•	Rendi impairment:
	moderate renal impairment. Severe renal impairment (CrCl-20ml/min) d/w consultant
	Boussiumshups dese recommendations
	Bevacizumas. no dose recommendations. Basitavely no dose reduction necessary
	• Pacificate: no uose reduction necessary.
	CrClc20ml/min
•	Dose Modification $\mathbf{D}_{\text{restrict}}$
	delay until recovery to = grade 1. Consider emitting pacificately and consider</th
	delay until recovery to $ grade 1. Consider of initial pacificate in event of recurrent$
	grade //-> neuroparity on recurrent or persistent //-grade 2 neuroparity following a dose reduction
	 Dose reduction of carboniatin and naclitaval should be considered if any other grade 2.
	or 4 non-baematological toxicity or repeat appearance of grade 2 (event NeV) and
	of a non-nacination grant toxicity of repeat appearance of grade 2 (except N&V dilu along ia). Delay until resolution of toxicity to z/z areas 1
	a Dembrolizumaby doce reductions are not recommended. Desing delay or
	discontinuation may be required based on individual safety and tolerability. If
	chemotherany is delayed, nembrolizymab should also be delayed
	Bevacizumah: Dose reduction for adverse reactions is not recommended. If indicated
	• Devalutionals . Dose reduction for daverse reductions is not recommended. If indicated,
	therapy should either be permanently discontinued of 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:
	• Pemprolizumab: 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.
	• Bevacizumab: 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

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			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.				
0			Paclitaxel: Patients developing hypersensitivity reactions may be re-challenged with full				
			dose paclitaxel following prophylactic medication	on (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).				
0			Carboplatin: Mild/moderate reactions (grade 1	-2): If symptoms resolve after treatment			
			with hydrocortisone and chlorphenamine, the i	nfusion may be restarted at 50% rate for			
			30 mins, then, if no further reaction, increase to	o 100% rate.			
			If symptoms do not resolve after treatment wit	h hydrocortisone and chlorphenamine,			
			do not restart the infusion. At consultant's discr	etion, patients may be re-challenged at			
			a later date with additional prophylaxis. In the e	event of further reaction (grade 1-3),			
			stop infusion and consider desensitisation regimen.				
			Severe (grade 3): Do not restart infusion. Consid	der re-challenge with carboplatin			
			desensitisation regimen.				
			Anaphylaxis (grade 4): Follow anaphylaxis proto	col. Discontinue permanently and			
			consider alternative treatment.				
		• Ma	nagement of adverse reactions:				
		• Per	nbrolizumab: Immune related reactions.				
		0	Immune-related adverse reactions may appear	during or after treatment. The most			
			common immune-related reactions are: pneum	onitis, colitis, nephritis, hepatitis,			
			symptomatic hypophysitis, hyperthyroidism, hy	pothyroidism and type 1 diabetes. The			
			following additional, immune related adverse re	eactions have been reported in patients			
			receiving pembrolizumab: uveitis, arthritis, myc	sitis, pancreatitis, severe skin reactions,			
			myasthenic syndrome, encephalitis, Guillian-Ba	rre syndrome, optic neuritis,			
			rhabdomyolysis, sarcoidosis, myocarditis, haem	olytic anaemia and partial seizures			
			arising in a patient with inflammatory foci in brain parenchyma.				
		0	See guidelines for management of immune-related adverse reactions following				
			immunotherapy: <u>https://www.kmcc.nhs.uk/medicines-and-prescribing-incorporating-</u>				
			<u>sact-pathways/immunotherapy/</u>				
		0	Cases of Stevens-Johnson syndrome (SJS) and to	oxic epidermal necrolysis (TEN), some			
			with fatal outcome, have been reported. For signs or symptoms of SJS or TEN,				
			pembrolizumab should be withheld and the patient should be referred to a specialised				
			unit for assessment and treatment. If SJS or TEN is confirmed, pembrolizumab should				
			be permanently discontinued.				
		0	Pembrolizumab may be restarted within 12 weeks after last dose, if an adverse reaction				
			remains at = Grade 1 and corticosteroid dose has been reduced to </= 10 mg</th				
			prednisone or equivalent per day.				
		• Bev	/acizumab:				
		0	Bevacizumab may adversely affect wound heali	ng. Do not give bevacizumab if patient			
			has undergone major surgery within the last 28 days. Treatment should be stopped at				
			least 28 days prior to elective surgery.				
		0	Patients may be at an increased risk for the dev	elopment of gastrointestinal perforation			
			and gall bladder perforation with bevacizumab.	Therapy should be permanently			
			discontinued in patients who develop gastroint	estinal perforation. It is recommended			
			an OGD is undertaken in patients at high risk of	variceal bleeding and that all sizes of			
			varices be assessed and treated as per local star	ndard of care prior to treatment.			
0		0	Patients may be at increased risk for the development of fistulae when treated with				
			bevacizumab.				
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		• Posterior Reversible Encephalopathy Syndrome (PRES) has been reported with
		bevacizumab. In patients developing PRES, treatment of specific symptoms including
		control of hypertension is recommended along with discontinuation of bevacizumab.
		• Caution should be exercised when bevacizumab and intravenous bisphosphonates are
		administered simultaneously or sequentially, as cases of osteonecrosis of the jaw have
		been reported. A dental examination and appropriate preventive dentistry should be
		considered prior to starting the treatment with bevacizumab. In patients who have
		previously received or are receiving intravenous bisphosphonates invasive dental
		procedures should be avoided, if possible.
		• 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.
		• Bevacizumab should be discontinued in patients with life-threatening (Grade 4)
		thromboembolic reactions, including pulmonary embolism or (refer to spc for
		management).
	•	Common drug interactions (for comprehensive list refer to BNF/SPC):
		• Pembrolizumab: 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.
		\circ Vaccines should only be given where the benefit outweighs the risk and after discussion
		between consultant and patient.
		• Bevacizumab: Caution when used with drugs known to cause bleeding, concurrent use
		may increase risk.
		• Paclitaxel: Avoid concomitant use of paclitaxel with CYP2C8 or CYP3A4 inducers (e.g.
		rifampicin, carbamazepine, phenytoin) and inhibitors (e.g. ketoconazole erythromycin,
		fluoxetine, gemfibrozil, clopidogrel, cimetidine, ritonavir, nelfinavir).
		 Carboplatin: Caution with other nephrotoxic drugs.
	•	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	KV/	ACC protocol GYN-046 V1 CDE list V1 284
nererences	1 1/14	

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

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1+ or 2+ on dipstick	3+ on dipstick (3 - 19g/L):	4+ on dipstick (>/=20g/L)
(0.3 – 2.9g/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	
1	Motoclopromido	20mg	PO	Duration	Stat	
1	PEMBROLIZUMAB	2011g	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) (dose capped	IV	30min	500ml glucose 5% In clinical practice the dose is usually	
		at 790mg on			capped at either 700mg OR for a maximum	
		epx system)			calculated dose of GFR 125ml/min	
	(+/-) BEVACIZUMAB	15mg/kg	IV	30min	Flush the line with sodium chloride 0.9% Flush the line with sodium chloride 0.9% for injection at the end of the infusion.	
	*From 3 rd infusion dex	amethasone may	be redu	ced to 12mg	; IV	
TTO	Drug	Dose	Route		Directions	
Day 1	Dexamethasone	6mg	PO	OD for 3 days starting on day 2.		
	Metoclopramide	10mg	РО	 3 times a day for 3 days, then 10mg up to 3 times a d as required (max. 30mg per day including 20mg pre- chemo dose) Do not take for more than 5 days continuously. 		

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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	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.
	(+/-) 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	Administration
				Duration	
1	BEVACIZUMAB	15mg/kg	IV	30 min	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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