Indication	Induction chamatherapy before concurrent chama radiation for lace regionally					
Indication	Induction chemotherapy before concurrent chemo-radiation for loco-regionally					
	advanced nasopharyngeal carcinoma.					
	Recurrent or metastatic nasopharyngeal carcinoma – first line treatment.					
Treatment	Neo-adjuvant					
Intent	Palliative					
Frequency and	Neo-adjuvant: Repeat every 21 days for 3 cycles.					
number of						
cycles	Palliative: Repeat every 21 days for maximum of 6 cycles.					
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. Patients					
pre-treatment	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.					
	• Consider audiology test for hearing impaired patients and monitor all patients for ototoxicity					
	through-out treatment.					
	• Monitor FBC day 1 and day 8 of each cycle. C+G or EDTA can be used to measure renal function					
	at clinicians' discretion. If CrCl <60ml/min d/w consultant (see below).					
	LFTs and U&Es day 1 of each cycle.					
	Haematological toxicity:					
	• Day 1: If neuts >/=1.5 and PLT >/=100 proceed with treatment. If neuts 1.0 - <1.5 and / or					
	PLT 75-99 d/w consultant. If neuts <1.0 and / or PLT <75 omit.					
	 Day 8: If neuts >/=1.0 and PLT >/=100 proceed with treatment. If neuts >/=1.0 and PLT 75- 					
	99 d/w consultant. If neuts <1.0 and / or PLT <75 omit.					
	Hepatic impairment:					
	 Cisplatin: no dose reduction required. 					
	 Gemcitabine: There is limited information about use of gemcitabine in hepatic 					
	impairment, therefore use with caution. If total bilirubin < 27μ mol/L: no dose adjustment					
	is needed. Total bilirubin >/= 27μ mol/L: either start at 80% of the original dose and					
	increase the dose if tolerated or start with full dose with active monitoring.					
	Renal impairment:					
	 C+G should be used to measure CrCl prior to cycle 1. 					
	 If CrCl 45-59ml/min administer 75% dose of cisplatin or switch to carboplatin. 					
	 If CrCl <45ml/min consider carboplatin. 					
	 Gemcitabine: CrCl >/= 30ml/min no dose adjustment. 					
	Management of adverse reactions and dose adjustments:					
	• Dose reduction should be considered if grade 3 or 4 non-haematological toxicity or repeat					
	appearance of grade 2 (except N&V and alopecia). Delay until resolution of toxicity to =</th					
	grade 1.					
	• Posterior Reversible Encephalopathy Syndrome (PRES) has been rarely reported with					
	gemcitabine. In patients developing PRES, treatment of specific symptoms including					
	control of hypertension is recommended along with discontinuation of gemcitabine.					
	• Haemolytic uraemic syndrome. Gemcitabine should be discontinued at the first signs of					
	any evidence of microangiopathic haemolytic anaemia, such as rapidly falling					
	haemoglobin with concomitant thrombocytopenia, elevation of serum bilirubin, serum					
	creatinine, blood urea nitrogen, or LDH.					
	• Capillary leak syndrome. Gemcitabine should be discontinued and supportive measures					
	implemented if capillary leak syndrome develops during therapy. Capillary leak syndrome					
	can occur in later cycles and has been associated in the literature with adult respiratory					
	distress syndrome.					

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		elsewhere.		
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Supersedes	New protocol	Checked by	C.Waters	
version			B.Willis	
Date	07.09.2023	Authorising consultant (usually NOG Chair) A.Zeniou		

	• <u>Common drug interactions (for comprehensive list refer to BNF/SPC)</u> :				
	 Cisplatin: Caution when used concurrently with other nephrotoxic or ototoxic drugs. Caution in patients receiving phenytoin, levels may be affected. Gemcitabine: No specific interaction studies have been performed. Driving: gemcitabine may cause drowsiness, patients should be advised to avoid driving or operating machinery until they establish if they are affected. 				
References	KMCC proforma URO-006 V4 Clatterbridge protocol MPHACISGEM V1.2				

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

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Repeat every 21 days

Day	Drug	Dose	Route	Infusion Duration	Administration
1	Sodium chloride 0.9%	1000ml	IV	2 hrs	+ 20mmol KCL + 10mmol Mg ²⁺
	Sodium chloride 0.9%	1000ml	IV	2 hrs	+ 20mmol KCL
	Aprepitant	125mg	РО		Take one 125mg capsule one hour prior to chemo on Day 1
	Mannitol 10%	200mls	IV	15 min	
	Ondansetron	<75yrs 16mg >/=75yrs 8mg	IV	15 min	Sodium Chloride 0.9% 50ml
	Dexamethasone	8mg	РО		
	GEMCITABINE	1000mg/m ²	IV	30 min	Diluted in 0.9% sodium chloride to a final concentration of 0.1mg/ml – 10mg/ml. Consider extending infusion duration if final volume >500ml.
	CISPLATIN	80mg/m ²	IV	2 hours	In 1000ml Sodium chloride 0.9%
	Furosemide	40mg	PO/IV		Only if urine output <100ml/hour or weight gain >2kg
	Sodium Chloride 0.9%	1000ml	IV	2hrs	+ 20mmol KCL + 10mmol Mg ² +
	*(Furosemide)	40mg	IV/PO	O *ONLY IF REQUIRED If patient remains in a 2L positive balance	
8	Metoclopramide	10mg	IV		
	GEMCITABINE	1000mg/m²	IV	30 min	Diluted in 0.9% sodium chloride to a final concentration of 0.1mg/ml – 10mg/ml. Consider extending infusion duration if final volume >500ml.
TTO	Drug	Dose	Route	Directions	
Day 1	Dexamethasone	6mg	РО	OM for 3 days	
	Metoclopramide10mgPO10mg TDS for 3 days and then 10mg up to Do not take for more than 5 consecutive of Do not take for more than 5 consecutive of				
	Aprepitant	80mg	РО	Take one 80mg capsule each morning on day 2 and day 3 only	

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