

Indication	NSCLC
Treatment Intent	Palliative
Frequency and number of cycles	Repeat every 21 days. Maximum 6 cycles.
Monitoring Parameters pre-treatment	<ul style="list-style-type: none"> • Virology screening: All new patients referred for systemic anti-cancer treatment should be screened for hepatitis B and C and the result reviewed prior to the start of 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. • EDTA/DTPA prior to cycle 1 must be ≥ 30ml/min. If EDTA/DTPA unavailable carboplatin should be dosed on C+G at AUC 5. • Monitor LFT's, U&E's and FBC at each cycle and FBC on day 8 only. • If WBC ≥ 3 and neuts 1.0-1.5 and PLT ≥ 100 proceed with chemo OR If neuts ≥ 1.5 and PLT ≥ 100 proceed with chemo. • If blood parameters not met defer day 1 chemo for 1 week, or omit day 8. Consider dose reduction. • Hepatic impairment: <ul style="list-style-type: none"> ○ Carboplatin: no dose adjustment ○ Gemcitabine: There is limited information about use of gemcitabine in hepatic impairment, therefore use with caution. If total bilirubin $< 27\mu\text{mol/L}$: no dose adjustment is needed. Total bilirubin $\geq 27\mu\text{mol/L}$: either start at 80% of the dose and increase the dose if tolerated or start with full dose with active monitoring. • Renal impairment: <ul style="list-style-type: none"> ○ Carboplatin: stop if CrCl < 30ml/min ○ Gemcitabine: CrCl ≥ 30ml/min no recommended dose adjustment. • Carboplatin Infusion-related reactions: <ul style="list-style-type: none"> ○ Mild/moderate reactions (grade 1-2): If symptoms resolve after treatment with hydrocortisone and chlorphenamine, the infusion may be restarted 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 chlorphenamine, do not restart the infusion. At consultant's discretion, patients may be rechallenged at a later date with additional prophylaxis. In the event of further reaction (grade 1-3), stop infusion and consider alternative treatment. ○ Severe (grade 3): Do not restart infusion. Consider alternative treatment. ○ Anaphylaxis (grade 4): Follow anaphylaxis protocol. Discontinue permanently and consider alternative treatment. • Management of adverse reactions: • 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 \leq grade 1. • Gemcitabine: <ul style="list-style-type: none"> ○ 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.

Protocol No	LUN-005	Kent and Medway SACT Protocol Disclaimer: No responsibility will be accepted for the accuracy of this information when used elsewhere.	
Version	V5	Written by	M.Archer
Supersedes version	V4	Checked by	C. Waters E. Parry
Date	22.07.2024	Authorising consultant (usually NOG Chair)	M. Cominos

	<ul style="list-style-type: none"> ○ 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. ● Common drug interactions (for comprehensive list refer to BNF/SPC): <ul style="list-style-type: none"> ○ Carboplatin: Caution with other nephrotoxic drugs. ○ 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 LUN-005 V4 SPC accessed online 17.08.2023 Lancet Supplementary Table 1: Dose recommendations for anticancer drugs in patients with renal or hepatic impairment

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

Repeat every 21 days

Day	Drug	Dose	Route	Infusion Duration	Administration
1	Ondansetron	<75yrs 16mg >/=75yrs 8mg	IV	15mins	Sodium chloride 0.9% 50ml
	Dexamethasone	8mg	PO		
	CARBOPLATIN	AUC 5 Dose = AUC X (GFR + 25) Maximum dose 700mg	IV	30mins	In Glucose 5% 500ml
	GEMCITABINE	1200mg/m²	IV	30mins	Diluted in 0.9% sodium chloride to a final concentration of 0.1mg/ml – 10mg/ml. Consider extending infusion duration if final volume >500ml
8	Metoclopramide	10mg		PO	
	GEMCITABINE	1200mg/m²	IV	30mins	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	PO	OM for 3 days starting on day 2	
	Metoclopramide	10mg	PO	10mg 3 times a day for 3 days then 10mg up to 3 times a day as required after days 1 and 8 (max. 30mg per day including 10mg pre-chemo dose on day 8). Do not take for more than 5 days continuously.	

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