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| <b>Indication</b>                          | Mesothelioma<br>NSCLC - 1st line treatment for adenocarcinoma or large-cell carcinoma<br>NSCLC – 2 <sup>nd</sup> line in PDL1 positive disease<br>NSCLC – 3 <sup>rd</sup> line in ALK positive disease<br>NSCLC - 2 <sup>nd</sup> line in EGFR +ve disease in patients not suitable for osimertinib  |
| <b>Treatment Intent</b>                    | Palliative   |
| <b>Frequency and number of cycles</b>      | Every 21 days for up to 6 Cycles   |
| <b>Monitoring parameters pre-treatment</b> | <ul style="list-style-type: none"> <li>• <b>Virology screening:</b> 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.</li> <li>• EDTA or Est CrCl should be checked prior to cycle 1, must be <math>\geq 45</math>ml/min.</li> <li>• If, during treatment, GFR is reduced by <math>&gt;10\%</math> from baseline, discuss with clinician.</li> <li>• If EDTA unavailable carboplatin should be dosed on C&amp;G at a dose of AUC 5.</li> <li>• Monitor FBC, LFT's and U&amp;E's at each cycle.</li> <li>• If WBC <math>&gt;3</math> and neuts 1.0-1.5 and PLT <math>\geq 100</math> proceed with chemo OR If neuts <math>&gt;1.5</math> and PLT <math>&gt;100</math> proceed with chemo.</li> <li>• If blood parameters not met defer chemo 1 week.</li> <li>• Delay of 2 weeks or 2 separate delays warrants DR of 25%.</li> <li>• <b>Hepatic impairment:</b></li> <li>• Carboplatin: No dose adjustment required.</li> <li>• Pemetrexed: d/w consultant in hepatic impairment (bilirubin <math>&gt;1.5</math> x ULN, AST / ALT <math>&gt; 3</math> x ULN, or AST/ ALT <math>&gt;5</math> x ULN if liver involvement), no data available.</li> <li>• <b>Renal Impairment:</b></li> <li>• Carboplatin: stop if CrCl <math>&lt;30</math>ml/min</li> <li>• Pemetrexed: If CrCl <math>&lt;45</math>ml/min discontinue.</li> <li>• Neurotoxicity <math>\geq</math> grade 2 d/w consultant.</li> <li>• For other adverse effects, dose reduction should be considered if grade 3 or 4 non-haematological toxicity or repeat appearance of grade 2 (except N&amp;V and alopecia). Delay until resolution of toxicity to <math>\leq</math> grade 1.</li> <li>• Discontinue if a patient experiences any grade 3 or 4 toxicity after 2 dose reductions.</li> <li>• <b>Carboplatin Infusion-related reactions:</b></li> <li>• 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.</li> <li>• 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.</li> <li>• Severe (grade 3): Do not restart infusion. Consider alternative treatment.</li> </ul> |

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| Protocol No        | LUN-024    | Kent and Medway SACT Protocol<br>Disclaimer: No responsibility will be accepted for the accuracy of this information when used elsewhere. |                      |
| Version            | V7         | Written by  | M.Archer             |
| Supersedes version | V6         | Checked by  | C.Waters<br>E. Parry |
| Date               | 22.07.2024 | Authorising consultant (usually NOG Chair)  | H. Saman             |

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|                     | <ul style="list-style-type: none"> <li>• Anaphylaxis (grade 4): Follow anaphylaxis protocol. Discontinue permanently and consider alternative treatment.</li> <li>• <b>Common drug interactions (for comprehensive list refer to BNF/SPC):</b> <ul style="list-style-type: none"> <li>• Potential drug interaction: Concomitant nephrotoxic drugs, probenecid, penicillin, NSAIDs (see SPC)</li> </ul> </li> <li>• <b>Driving / using machinery:</b> May cause fatigue in some patients and therefore use caution when driving or using machines.</li> <li>• <b>Notes on adjunctive medication</b></li> <li>• The first Vitamin B12 (hydroxocobalamin) injection should be administered in the week preceding first cycle of chemotherapy and once every 3 cycles thereafter (can be given on the same day as pemetrexed).</li> <li>• Folic acid 400 micrograms PO OD should be started 7 days prior to the first dose of pemetrexed and continued until 21 days after last cycle of chemotherapy.</li> <li>• Ensure dexamethasone pre-medication has been taken prior to administering pemetrexed.</li> </ul> |
| <b>Reference(s)</b> | KMCC protocol LUNG-024 V6, SPC accessed on line 16.08.2023   |

NB For funding information, refer to the CDF and NICE drug funding list

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**Repeat every 21 days**

| Day          | Drug   | Dose   | Route | Infusion Duration | Administration Details   |
|--------------|--|--|-------|-------------------|--|
| <b>Day 1</b> | <b>PEMETREXED</b>  | 500mg/m <sup>2</sup>   | IV    | 10 min            | 100ml Sodium Chloride 0.9% or 5% glucose. (diluent dependent on brand) |
|              | <b>Please ensure 30 minute break between Pemetrexed and Carboplatin administration</b> |  |       |                   |  |
|              | Ondansetron  | <75yrs=16mg<br>≥75yrs= 8mg   | IV    | 15 min            | Sodium chloride 0.9% 50ml  |
|              | <b>CARBOPLATIN</b>   | <b>AUC 5</b><br><b>Dose = AUC X (GFR + 25)</b><br>Maximum dose 700mg | IV    | 30 mins           | In Glucose 5% 500ml  |

| TTO  | Drug                              | Dose            | Route         | Directions  |
|--|-----------------------------------|-----------------|---------------|---|
| <b>Day 1</b>   | Dexamethasone                     | 4mg             | PO            | BD for 5 days starting the day before chemotherapy  |
|  | Metoclopramide                    | 10mg            | PO            | 3 times a day for 3 days then 10mg up to 3 times a day when required. Do not take for more than 5 days continuously.  |
|  | Folic acid                        | 400 micrograms  | PO            | OD starting 7 days prior to first dose of pemetrexed and continue until 21 days after last cycle of chemotherapy. Dispense original pack (90 tablets) when required.                              |
| <b>Dispense prior to cycle 1 and every 3 cycles thereafter</b> | Vitamin B <sub>12</sub> injection | 1000 micrograms | Intramuscular | First dose in the week preceding cycle 1, then every 3 <sup>rd</sup> cycle for the duration of treatment (PLT must be ≥50 for intramuscular injection). Dispense prior to cycle 1 for first dose. |

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