Indication	Neo-adjuvant or adjuvant treatment of BRCA+ or triple negative breast cancer.				
Treatment Intent	Neo-adjuvant Adjuvant				
Frequency and number of cvcles	EC every 14 days for 4 cycles followed by carboplatin (every 3 weeks) & paclitaxel (weekly) repeated every 21 days for 4 cycles.				
cycles Monitoring Parameters pre-treatment	<ul> <li>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.</li> <li>Consider using actual BSA</li> <li>EC cycles 1 to 4.</li> <li>ECG should be checked prior to cycle 1 and undertake ECHO/MUGA as clinically indicated.</li> <li>Monitor FBC, LFT and U&amp;E at each cycle.</li> <li>If neuts &gt;/= 1 and PLT&gt;/=100 continue with treatment. If neuts &lt;1 or PLT &lt;100 delay by 1 week.</li> <li>Hepatic impairment:         <ul> <li>Epirubicin: if bilirubin is 24-51 µmol /L give 50%, if bilirubin is 52-85µmol/L give 25%, if bilirubin is &gt;85µmol/L omit.</li> <li>Cyclophosphamide: No dose adjustment for mild or moderate impairment. Not recommended in severe impairment d/w consultant.</li> </ul> </li> <li>Renal Impairment:         <ul> <li>Cyclophosphamide: If CrCl &gt;/=30ml/min no dose reduction necessary otherwise d/w consultant.</li> <li>Epirubicin: If CrCl &gt;/=10ml/min no dose adjustment needed.</li> <li>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 </li> </ul> </li> <li>Paclitaxel/Carboplatin cycles 5 to 8.</li> <li>EDTA/DTPA should be used to measure GFR prior to cycle 5. C+G may be used to estimate CrCl if there is a delay in obtaining EDTA result, CrCl must be &gt;/=30ml/min. Repeat EDTA if Creatinine clearance drops by 25%.</li> <li>Monitor U+Es, FBC and LFTs prior to each cycle and on day 8 and 15.</li> <li>If neuts &gt; 1 or PLT &lt;100, delay D1 by 1 week or omit day 8/15, inform consultant of delay. If neuts &gt; 1 and PLT&gt;/= 1</li></ul>				
	with full dose Paclitaxel following prophylactic medication (e.g. famotidine 40mg po given 4 hours prior to treatment plus Hydrocortisone 100mg iv and				

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	<ul> <li>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).</li> <li>If patients experience no hypersensitivity reactions after the first two doses of paclitaxel, remove pre-medication with dexamethasone, chlorphenamine (and H2 antagonist) from dose 3 onwards.</li> <li>Patients developing hypersensitivity reactions to carboplatin: 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</li> </ul>
	may be re-challenged at a later date with additional prophylaxis. In the event of further reaction (grade 1-3), stop infusion and consider alternative treatment.
	<ul> <li>Severe (grade 3): Do not restart infusion. Consider alternative treatment.</li> </ul>
	• Anaphylaxis (grade 4): Follow anaphylaxis protocol. Discontinue permanently and
	consider alternative treatment.
	<ul> <li>Dose reduce Paclitaxel by 20% in the event of &gt;/= grade 2 neuropathy and consider a delay until recovery to <!--= grade 1.</li--> </li></ul>
	<ul> <li>Consider omitting paclitaxel in event of recurrent &gt;/= grade 3 neuropathy or</li> </ul>
	recurrent OR persistent >/=grade 2 neuropathy following a dose reduction.
	<ul> <li>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 <!--= grade 1.</li--> </li></ul>
	<ul> <li><u>Common drug interactions (for comprehensive list refer to BNF/SPC)</u>:</li> </ul>
	<ul> <li>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).</li> <li>Carboplatin: Caution with other nephrotoxic drugs.</li> <li>Caution, ciclosporin increases concentration of epirubicin.</li> </ul>
References	KMCC protocol BRE-059 EC followed by Carboplatin & Paclitaxel for Breast Cancer
	SPC accessed online 10.10.2023 Breast NOG discussion 12.09.2023
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NB For funding information, refer to CDF and NICE Drugs Funding List

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## Cycle 1-4 Repeat every 14 days

Day	Drug	Dose	Route	Infusion Duration	Administration
1	Dexamethasone	8mg	PO		
	Ondansetron	<75yrs 16mg >/=75yrs 8mg	IV	15 min	In 50ml Sodium chloride 0.9%
	EPIRUBICIN	90mg/m²	IV	Slow bolus	Through the side of a fast running Sodium Chloride 0.9% intravenous infusion
	CYCLOPHOSPHAMIDE	600mg/m²	IV	Slow bolus	Through the side of a fast running Sodium Chloride 0.9% intravenous infusion
TTO	Drug	Dose		Directions	
Day 1	Dexamethasone	6mg	РО	OM for 3 days. Take with or just after food, or a meal.	
	Metoclopramide	10mg	РО		9 3 times a day as required. e for more than 5 days ly.
	Ondansetron	8mg	РО	BD for 3 days	
	Filgrastim	300 mcg or consider dose of 480 mcg if patient > 80kg	SC	OD starting	on day 3 for 5 days

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## Cycle 5-8 Repeat every 21 days

Day	Drug	Dose	Route	Infusion	Administration
		Give pre-meds 30		Duration	alitaval
Day 1	Dexamethasone	8mg (may be reduced to 4mg on subsequent doses)	IV	Bolus	
	Chlorphenamine	10mg	IV	Slow bolus	Through the side of a fast running Sodium Chloride 0.9% intravenous infusion.
	Ondansetron	<75yrs 16mg >/=75yrs 8mg	IV	15 min	Sodium chloride 0.9% 50ml
	PACLITAXEL	80mg/m²	IV	1 hr	In 250ml Sodium Chloride 0.9% (non-PVC bag and non-PVC administration set) via in-line 0.22 microns filter. Flush with sodium chloride 0.9%
	CARBOPLATIN Dose = (GFR + 25) x AUC	AUC 6 (maximum dose 700mg)	IV	30 mins	in 500ml 5% glucose
Days	Give pre-meds 30 minutes prior to paclitaxel				
8 &15	Dexamethasone	8mg (may be reduced to 4mg on subsequent doses)	IV	Bolus	
	Chlorphenamine	10mg	IV	Slow bolus	Through the side of a fast running Sodium Chloride 0.9% intravenous infusion.
	Metoclopramide	10mg	IV	Bolus	
	PACLITAXEL	80mg/m²	IV	1 hr	In 250ml Sodium Chloride 0.9% (non-PVC bag and non-PVC administration set) via in-line 0.22 microns filter. Flush with sodium chloride 0.9%

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## TTO cycle 5-8 Repeat every 21 days

TTO	Drug	Dose	Route	Directions
	Dexamethasone	6mg	PO	OM for 3 days
Day 1	Ondansetron	8mg	РО	BD for 3 days
	Filgrastim	300 mcg or consider dose of 480 mcg if patient > 80kg	SC	OD starting on day 3 for 5 days
Day 1, 8 & 15	Metoclopramide	10mg	PO	3 times a day for 3 days, then 10mg up to 3 times a day as required. Do not take for more than 5 days continuously.
Day 8 & 15	Dexamethasone	4mg	PO	OM for 2 days NB Dexamethasone iv included as part of pre-med before paclitaxel in cycles 5-8

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