Indication	untreated I	ab in combination with paclitaxel albumin b PD-L1-positive, triple negative, unresectable 1 expression >/=1%.	ound for the treatment of previously , locally advanced or metastatic breast cancer				
	adjuvant th	s anti-PD-1/PD-L1 treatment can have been nerapy, as long as there was no disease prog after completion of anti-PD-1/PD-L1 therap	ression during such treatment and for at least				
Treatment	Palliative		,				
Intent							
Frequency	Every 28 da	Every 28 days					
and number	-	-1-					
of cycles		ntil disease progression or unmanageable to	exicity or patient choice.				
,		, 5	, ,				
		edical review must be scheduled to occur by rance and whether to continue with treatments	the end of the first 8 weeks of treatment to				
Monitoring		ogy screening: All new patients referred for					
Parameters		· ·	ewed prior to the start of treatment. Patients				
pre-	not p	reviously tested who are starting a new line	of treatment, should also be screened for				
treatment	hepat	titis B and C. Further virology screening will I sment and clinician discretion.					
		d parameters:					
		tor FBC, U&Es, LFTs and random blood gluco	ose at each cycle.				
		_	nue with treatment. Otherwise d/w consultant.				
	-	8 and 15: If neutrophils >/=1 and PLT >/=10					
		ıltant.	·				
	• ECG a	at first cycle. Caution should be exercised wh	en treating patients with clinically significant				
	cardio	ovascular disease such as pre-existing coron	ary artery disease, or congestive heart failure.				
		tor for signs and symptoms of myocarditis. (
			en every 6-8 weeks or as clinically indicated.				
	-						
	availa	available on KMCC website (see link below). Cortisol level should not be taken within 24hours of the last steroid dose.					
		 Confirm the patient has no symptomatically active brain metastases or leptomeningeal 					
		stases.	e brain metastases of reprometingear				
		I Impairment					
		tezolizumab and paclitaxel albumin bound: no dose adjustment is required in patients with ild or moderate renal impairment (30-89ml/min).					
		o recommendation for patients with severe (<30ml/min) renal impairment as data is too mited.					
		<u>tic impairment</u> (prior to treatment, for imm	une related henatitis see helow) –				
	-	ezolizumab:_ no dose adjustment is required					
			.0 -1.5 × ULN and any AST) or moderate hepatic				
		pairment (bilirubin > 1.5 to 3x ULN and any					
		vere hepatic impairment (bilirubin >3 X ULN	· · · · · · · · · · · · · · · · · · ·				
			ild hepatic impairment (total bilirubin > 1 to ≤				
		5 x ULN and AST ≤ 10 x ULN), no dose adjust					
		oderate to severe hepatic impairment, d/w					
		ion-related reactions					
		ezolizumab: reduce infusion rate or interrup	ot treatment if Grade 1 or 2 infusion-related				
		action. Treatment may be resumed when th					
		tipyretic and antihistamines should be cons					
		ermanently discontinue in patients with Grad	-				
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		where.					
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version	02.05.2024	Authorising consultant (usually NOG Chair)	A.Repon R.Burrombe				
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Date

02.05.2024

Authorising consultant (usually NOG Chair)

R.Burcombe

• Adverse Reactions

Atezolizumab

<u>Immune- related reactions: (for comprehensive guidance refer to SPC):</u>

- Reactions include myositis, nephritis, myocarditis, pneumonitis, colitis, hepatitis, pancreatitis, adrenal insufficiency, meningoencephalitis, hyperthyroidism, hypothyroidism, hypophysitis, diabetes, rash, arthralgia, musculoskeletal pain, neuropathies, myasthenic syndrome and Guillain-Barre syndrome. For details on treatment modification for immune related reactions see table 1.
- Cases of Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), some with fatal outcome, have been reported. For signs or symptoms of SJS or TEN, atezolizumab should be withheld and the patient should be referred to a specialised unit for assessment and treatment. If SJS or TEN is confirmed, atezolizumab should be permanently discontinued.
- Pericardial disorders, including pericarditis, pericardial effusion and cardiac tamponade, some with fatal outcomes, have been observed. Patients should be monitored for clinical signs and symptoms of pericardial disorders.
- Atezolizumab should be discontinued in the event of any grade Myasthenic syndrome/myasthenia gravis, Guillain-Barré syndrome and Meningoencephalitis
- o If corticosteroids are used to treat an immune related reaction they should be tapered over at least 1 month upon improvement of immune related toxicity to </= grade 1. Treatment should not be resumed while the patient is receiving immunosuppressive doses of corticosteroids (>10mg prednisone) or other immunosuppressive therapy. Prophylactic antibiotics should be used where appropriate to prevent opportunistic infections in patients receiving immunosuppressive therapy.
- See guidelines for management of immune-related adverse reactions following immunotherapy: https://www.kmcc.nhs.uk/medicines-and-prescribing-incorporating-sact-pathways/immunotherapy/
- Patients should be monitored for signs and symptoms of pneumonitis. After ruling out
 infectious etiology, d/w consultant and permanently discontinue paclitaxel albumin bound
 when a diagnosis of pneumonitis is made and initiate appropriate treatment (see SPC for
 guidance on atezolizumab induced immune related pneumonitis).
- Atezolizumab may be continued as a single agent if paclitaxel albumin bound has to be discontinued due to toxicity in which case atezolizumab may be given either subcutaneously at a dose of 1875mg every 3 weeks or intravenously at a dose of 1680 mg every 4 weeks. Please prescribe using KMCC protocol MULTI-004 atezolizumab.
 In addition, paclitaxel albumin bound may be continued in the event that atezolizumab is discontinued due to toxicity.
- **Driving:** Patients should be advised not to drive and use machines if they feel tired or dizzy.

Dose reductions

- Atezolizumab: Dose reductions are not recommended. Dosing delay or discontinuation may be required based on individual safety and tolerability.
 Paclitaxel albumin bound:
- Day 1: Neuts <1.5 and /or PLT <100, delay until recovery. If recovery >7 days on 1st occurrence reduce to 75mg/m², 2nd occurrence reduce to 50mg/m², if there is a 3rd occurrence discontinue.
- Day 8 & 15 If neuts <0.5 for >7 days and / or any episode of platelet count <50, once recovered, on 1st occurrence reduce to 75mg/m², if recurrence then discontinue.
- Febrile neutropenia (neuts <0.5 and temp >38°) 1st occurrence reduce to 75mg/m², 2nd occurrence reduce to 50mg/m², if there is a 3rd occurrence discontinue.
- Grade 3-4 peripheral neuropathy; 1st occurrence withhold until </= grade 1 then reduce to 75mg/m², 2nd occurrence withhold until </= grade 1 then reduce to 50mg/m², 3rd occurrence discontinue.

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Drug interactions (for comprehensive list refer to BNF/SPC): The use of systemic corticosteroids or immunosuppressants before starting atezolizumab should be avoided. However, systemic corticosteroids or other immunosuppressants can be used to treat immune-related adverse reactions after starting atezolizumab. Patients should not receive the flu vaccine unless the benefit outweighs the risk and after discussion between consultant and patient. Use paclitaxel albumin bound with caution in patients receiving concomitant inhibitors (e.g. ketoconazole, erythromycin, fluoxetine, cimetidine, clopidogrel) or inducers (e.g. rifampicin, carbamazepine, phenytoin) of CYP2C8 or CYP3A4. Delayed or missed doses: If a planned dose of atezolizumab is missed, it should be administered as soon as possible. The schedule of administration must be adjusted to maintain the appropriate interval between The patient should be provided with the Tecentriq® Patient Alert card with each prescription (to be carried until at least 5 months after the last dose of treatment). References SPC accessed online 19.06.2023 KMCC protocol BRE-067 V4 BlueTeq form accessed online 21.09.2023

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

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Immune related reaction	Severity	Treatment modification
Pneumonitis	Grade 2	Withhold
		Treatment may be resumed when the event improves to Grade 0 or Grade 1 within 12 weeks,
		and corticosteroids have been reduced to ≤ 10 mg prednisone or equivalent per day
	Grade 3 or 4	Permanently discontinue
Hepatitis in patients without	Grade 2:	Withhold
hepatocellular carcinoma	(ALT or AST > 3 to 5 x upper limit of normal [ULN] or blood	Treatment may be resumed when the event improves to Grade 0 or Grade 1 within 12 weeks and
	bilirubin > 1.5 to 3 x ULN)	corticosteroids have been reduced to ≤ 10 mg prednisone or equivalent per day
	Grade 3 or 4:	Permanently discontinue
	(ALT or AST > 5 x ULN or blood bilirubin > 3 x ULN)	
Colitis	Grade 2 or 3 Diarrhoea	Withhold
	(increase of ≥ 4 stools/day over baseline) <i>or</i>	Treatment may be resumed when the event improves to Grade 0 or Grade 1 within 12 weeks and
	Symptomatic Colitis	corticosteroids have been reduced to ≤ 10 mg prednisone or equivalent per day
	Grade 4 Diarrhoea or Colitis (life threatening; urgent	Permanently discontinue
	intervention indicated)	
Hypothyroidism or	Symptomatic	Withhold
hyperthyroidism		Hypothyroidism:
		Treatment may be resumed when symptoms are controlled by thyroid replacement therapy and
		TSH levels are decreasing
		Hyperthyroidism:
		Treatment may be resumed when symptoms are controlled by anti-thyroid medicinal product
		and thyroid function is improving
Adrenal insufficiency	Symptomatic	Withhold
		Treatment may be resumed when the symptoms improve to Grade 0 or Grade 1 within 12 weeks
		and corticosteroids have been reduced to ≤ 10 mg prednisone or equivalent per day and patient
		is stable on replacement therapy
Hypophysitis	Grade 2 or 3	Withhold
		Treatment may be resumed when the symptoms improve to Grade 0 or Grade 1 within 12 weeks
		and corticosteroids have been reduced to ≤ 10 mg prednisone or equivalent per day and patient
		is stable on replacement therapy
	Grade 4	Permanently discontinue

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Type 1 diabetes mellitus	Grade 3 or 4 hyperglycaemia (fasting glucose > 250 mg/dL or 13.9 mmol/L)	Withhold
		Treatment may be resumed when metabolic control is achieved on insulin replacement therapy
Rash/Severe cutaneous	Grade 3	Withhold
adverse reactions	or suspected Stevens-Johnson syndrome (SJS) or toxic	
	epidermal necrolysis (TEN) regardless of severity	Treatment may be resumed when the symptoms improve to Grade 0 or Grade 1 within 12 weeks and corticosteroids have been reduced to ≤ 10 mg prednisone or equivalent per day
	Grade 4	Permanently discontinue
	or confirmed Stevens-Johnson syndrome (SJS) or toxic epidermal necrolysis (TEN) regardless of severity	
Myasthenic	All Grades	Permanently discontinue
syndrome/myasthenia		
gravis, Guillain-Barré		
syndrome and		
Meningoencephalitis		
Pancreatitis	Grade 3 or 4 serum amylase or lipase levels increased (> 2	Treatment may be resumed when serum amylase and lipase levels improve to Grade 0 or Grade 1
	x ULN)	within 12 weeks, or symptoms of pancreatitis have resolved, and corticosteroids have been
	or Grade 2 or 3 pancreatitis	reduced to ≤ 10 mg prednisone or equivalent per day
	Grade 4 or any grade of recurrent pancreatitis	Permanently discontinue
Myocarditis	Grade 2 or above	Permanently discontinue
Nephritis	Grade 2:	Withhold
	(creatinine level > 1.5 to 3.0 x baseline or > 1.5 to 3.0 x	Treatment may be resumed when the event improves to Grade 0 or Grade 1 within 12 weeks and
	ULN)	corticosteroids have been reduced to ≤ 10 mg prednisone or equivalent per day
Myositis	Grade 2 or 3	Withhold
	Grade 4 or Grade 3 recurrent myositis	Permanently discontinue
Pericardial disorders	Grade 1 pericarditis	Withhold and conduct a detailed cardiac evaluation to determine the etiology and manage
		appropriately
	Grade 2 or above	Permanently discontinue
Other immune-related	Grade 2 or Grade 3	Withhold until adverse reactions recovers to Grade 0-1 within 12 weeks, and corticosteroids have
reactions		been reduced to ≤ 10 mg prednisone or equivalent per day.
	Grade 4 or recurrent Grade 3	Permanently discontinue (except endocrinopathies controlled with replacement hormones)

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Repeat every 28 days

NB It is important to note that this dose and schedule of paclitaxel albumin bound <u>is not</u> currently the licensed dose and schedule in metastatic breast cancer.

Day	Drug	Dose	Route	Infusion Duration	Administration
1	Metoclopramide	20mg	РО	Stat	
	ATEZOLIZUMAB	840mg	IV	1st dose over 60 min. If tolerated, all subsequent infusions over 30 min.	diluted in 250ml 0.9% sodium chloride
	PACLITAXEL ALBUMIN BOUND (Abraxane ®/ Pazenir®)	100mg/m²	IV	30 mins	To be administered undiluted in a sterile PVC or non-PVC type intravenous bag. The use of specialized DEHP-free solution containers or administration sets is not necessary to prepare or administer infusions.
8	Metoclopramide	20mg	РО	Stat	
	PACLITAXEL ALBUMIN BOUND (Abraxane ®/ Pazenir®)	100mg/m²	IV	30 mins	To be administered undiluted in a sterile PVC or non-PVC type intravenous bag. The use of specialized DEHP-free solution containers or administration sets is not necessary to prepare or administer infusions.
15	Metoclopramide	20mg	РО	Stat	
	ATEZOLIZUMAB	840mg	IV	1st dose over 60 min. If tolerated, all subsequent infusions over 30 min.	diluted in 250ml 0.9% sodium chloride
	PACLITAXEL ALBUMIN BOUND (Abraxane ®/ Pazenir®)	100mg/m²	IV	30 mins	To be administered undiluted in a sterile PVC or non-PVC type intravenous bag. The use of specialized DEHP-free solution containers or administration sets is not necessary to prepare or administer infusions.

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TTO	Drug	Dose	Route	Directions
Day 1	Metoclopramide	10mg	РО	10mg up to 3 times a day as required after days 1, 8 and 15 (max. 30mg per day including 20mg pre-chemo dose) Do not take for more than 5 days continuously.

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