Indication	The treatment of hormone receptor-positive, HER2-negative, locally advanced or metastatic breast cancer in people who have had previous endocrine therapy.
	The patient either has:
	• progressive disease whilst still receiving adjuvant or neoadjuvant endocrine therapy for early breast cancer with no subsequent endocrine therapy received following disease progression or
	 progressive disease within 12 or less months of completing adjuvant endocrine therapy for early breast cancer with no subsequent endocrine therapy received following disease progression or
	 progressive disease on 1st line endocrine therapy for advanced/metastatic breast cancer with no subsequent endocrine therapy received following disease progression.
	The patient should have had no prior treatment with a CDK 4/6 inhibitor unless either ribociclib (in combination with fulvestrant) or palbociclib (in combination with fulvestrant) has had to be stopped within 6 months of its
	start solely as a consequence of dose-limiting toxicity and in the clear absence of disease progression or abemaciclib has been received as part of any early access scheme for the combination of abemaciclib plus fulvestrant.
Treatment	Palliative
Intent	
Frequency and	Every 28 days
number of	Until disease progression or excessive toxicity or patient choice to discontinue.
cycles	
Monitoring	Virology screening: All new patients referred for systemic anti-cancer treatment should be screened for benetitie B and C and the result reviewed prior to the start of treatment. Betients not previewed to the start of treatment.
parameters pre-treatment	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.
	 Monitor U&Es, LFTs and FBC prior to the start of treatment, day 15 of cycle 1 and 2, then at each cycle for 4 months and then as clinically indicated thereafter.
	• If neuts <1.5 and/or PLT<100 and/ or Hb<80g/L prior to initiation of treatment d/w consultant.
	• For subsequent cycles if PLT >/=100 and neuts >/=1proceed with treatment.
	• If PLT 50-99 and neuts >/=1 proceed with fulvestrant, withhold abemaciclib and alert consultant.
	 If PLT >/=100 and neuts <1 proceed with fulvestrant, withhold abemaciclib and alert consultant.
	 If PLT <50 and neuts <1 delay both drugs for 1 week.
	 If neuts <1, see below for dose adjustments.
	 Pre- or peri-menopausal women should have undergone ovarian ablation or be treated with LHRH agonists. <u>Renal impairment</u>: No dose adjustment of abemaciclib or fulvestrant is required for patients with mild or moderate renal impairment (CrCl ≥30 mL/min). Insufficient data are available in patients with severe renal
	impairment or those requiring haemodialysis to provide any dose adjustment recommendation, administer with caution.
	 <u>Hepatic impairment</u>: No dose adjustment of abemaciclib or fulvestrant is required for patients with mild or moderate hepatic impairment (Child-Pugh classes A and B), although use fulvestrant with caution. For patients with severe hepatic impairment (Child-Pugh class C), the dose frequency of abemaciclib should be reduced to once daily. D/W consultant if bilirubin >2 x ULN.
	 Interstitial lung disease/pneumonitis: Monitor patients for pulmonary symptoms indicative of
	ILD/pneumonitis (e.g. hypoxia, cough, dyspneoa). See table 3 below for dose modification and guidance in patients who have new or worsening respiratory symptoms and are suspected to have developed
	ILD/pneumonitis.
	 Venous thromboembolism: Patients should be monitored for signs and symptoms of deep vein thrombosis and pulmonary embolism and treated as medically appropriate. Based on the grade of VTE, abemaciclib may require dose modification, see table 4 below.
	require dose modification, see table 4 below.

Protocol No	BRE-068	Kent and Medway SACT Protocol Disclaimer: No responsibility will be accepted for the accuracy of this information when used elsewhere.	
Version	V2	Written by	M.Archer
Supersedes version	V1	Checked by	C.Waters M.Capomir
Date	21.06.2023	Authorising consultant (usually NOG Chair)	C.Moss

 Does adjustments Does reductions: 1st does reduction to 100mg bd, 2rd dose reduction to 50mg bd L¹⁶ occurrence of grade 3 haematological toxicity, excluding thrombocytopenia (e.g. neuts 0.5 – 0.99) suspend dose until toxicity resolves to Grade 2 or less (neuts >/=1), then resume at the same dose. Recurrence of grade 3 haematological toxicity excluding thrombocytopenia (neuts <0.5), suspend dose until toxicity resolves to Grade 2 or less (hen resume at next lower dose level. Grade 4 haematological toxicity excluding thrombocytopenia (neuts <0.5), suspend dose until toxicity resolves to Grade 2 or less (neuts >/=1), then resume at next lower dose level. If platelets 5:100 discuss dose modification of abemacicib with consultant. NF: Platelets should be >/=50 for intramuscular injection with fulvestrant. If patient requires administration of blood cell growth factors, suspend admacibi dose for at least 48 hours after the last dose of blood cell growth factors was administered and until toxicity resolves to Grade 2 or less then resume at next lower dose unless the dose was already reduced for the toxicity that led to the use of the growth factor. Management of diarrhoea: Treat with loperamide. If grade 2 and toxicity does not resolve within 24 hours to grade 1 or less, suspend until resolution and restart at the same dose. For Grade 2 that persists or recurs after resuming the same dose or Grade 3 or 4 (or requires hospitalisation), suspend dose until toxicity resolves to Grade 1 or less and resume at next lower dose. See tables 1 and 2 for management of increased aminotransferases and other non-haematological toxicities. If a patient vomits or misses a dose of abemacicili, but patient should be instructed to take the next dose at its scheduled time; an additional dose should not be taken. Drug interactions: Concomitant use of strong CYP3A4 inhibitor cannot		Dese allocations and
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Reference(s) SPC accessed on line 23.06.2022 CDF v1.169 accessed online 14.10.20		
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NB For funding information, refer to CDF and NICE Drugs Funding List

Protocol No	BRE-068	Kent and Medway SACT Protocol Disclaimer: No responsibility will be accepted for the accuracy of this information when used		
		elsewhere.		
Version	V2	Written by	M.Archer	
Supersedes	V1	Checked by	C.Waters	
version			M.Capomir	
Date	21.06.2023	Authorising consultant (usually NOG Chair)	C.Moss	

Table 1. Management of increased aminotransferases

Toxicity	Management recommendations
Grade 1 (>ULN-3.0 x ULN) Grade 2 (>3.0-5.0 x ULN)	No dose adjustment required.
Persistent or Recurrent Grade 2, or Grade 3 (>5.0-20.0 x ULN)	Suspend dose until toxicity resolves to baseline or Grade 1. Resume at next lower dose.
Elevation in AST and/or ALT >3 x ULN WITH total bilirubin >2 x ULN, in the absence of cholestasis	Discontinue abemaciclib.
Grade 4 (>20.0 x ULN)	Discontinue abemaciclib.

Table 2. Management recommendations for non-haematological toxicities (excluding diarrhoea, increased aminotransferases, VTEs and interstitial lung disease (ILD)/pneumonitis)

No dose adjustment required.
end dose until toxicity resolves to Grade 1 or less. Resume at next lower dose.

Table 3. Management recommendations for interstitial lung disease (ILD)/pneumonitis

Toxicity	Management recommendations		
Grade 1 or 2	No dose adjustment required.		
Persistent or recurrent Grade 2 toxicity that does not resolve with maximal supportive measures within 7 days to baseline or Grade 1	Suspend dose until toxicity resolves to baseline or Grade 1. Resume at next lower dose.		
Grade 3 or 4	Discontinue abemaciclib.		

Table 4: Management recommendations for venous thromboembolic events (VTEs)

Toxicity	Management recommendations		
Advanced or metastatic breast cancer			
Grade 1 or 2	No dose modification is required.		
Grade 3 or 4	Suspend dose and treat as clinically indicated. Abemaciclib may be resumed when the patient is clinically stable.		

Protocol No	BRE-068	Kent and Medway SACT Protocol				
		Disclaimer: No responsibility will be accepted for the accuracy of this information when used				
		elsewhere.				
Version	V2	Written by	M.Archer			
Supersedes	V1	Checked by	C.Waters			
version			M.Capomir			
Date	21.06.2023	Authorising consultant (usually NOG Chair)	C.Moss			

Cycle 1: Cycle length - 28 days

Day	Drug	Dose	Route	Infusion	Administration
				Duration	
1				Each 5ml	Administered as 2 x 250mg (5ml)
	FULVESTRANT	500mg	intramuscular	(250mg)	injections, one in each buttock.
				injection over	
				1-2 minutes	
15				Each 5ml	Administered as 2 x 250mg (5ml)
	FULVESTRANT	500mg	intramuscular	(250mg)	injections, one in each buttock.
				injection over	
				1-2 minutes	
TTO	Drug	Dose	Route	Directions	
1				Twice DAILY for 3	28 days with or without food
				Swallow whole,	do not chew or crush.
				Take the dose at	approximately the same times each
				day. Do not take with grapefruit or grapefruit juice.	
	ABEMACICLIB	150mg	PO		
				This medicine m	ay make you sleepy. If this happens,
				do not drive or use tools or machines.	
					ng, 100mg or 150mg tablets.
				Take 4mg (2 capsules) initially, then 2mg (1 capsule) after each loose stool when required. Maximum 16mg (8 capsules) a day. Dispense 30 capsules on cycle 1 then only if specified.	
	Loperamide	2-4mg	PO		
	Loperannae		. 0		

Cycle 2 onwards: repeat every 28 days

Day	Drug	Dose	Route	Infusion	Administration
				Duration	
1				Each 5ml	Administered as 2 x 250mg (5ml)
	FULVESTRANT	500mg	intramuscular	(250mg)	injections, one in each buttock.
				injection over	
				1-2 minutes	
TTO	Drug	Dose	Route	Directions	
1				Twice DAILY for 28 days with or without food	
				Swallow whole, do not chew or crush.	
	ABEMACICLIB	150mg	PO	Take the dose at approximately the same times each	
				day.	
				Do not take with grapefruit or grapefruit juice.	
				This medicine may make you sleepy. If this happens,	
				do not drive or use tools or machines.	
				Available as 50m	ng, 100mg or 150mg tablets

Protocol No	BRE-068	Kent and Medway SACT Protocol				
		Disclaimer: No responsibility will be accepted for the accuracy of this information when used				
		elsewhere.				
Version	V2	Written by	M.Archer			
Supersedes	V1	Checked by	C.Waters			
version			M.Capomir			
Date	21.06.2023	Authorising consultant (usually NOG Chair)	C.Moss			