

Indication	<p>First line endocrine therapy for oestrogen receptor-positive, HER2-negative, locally advanced or metastatic breast cancer.</p> <p>NB: Previous hormone therapy with anastrozole or letrozole whether as adjuvant therapy or as neoadjuvant treatment is allowed as long as the patient has had a disease-free interval of 12 months or more since completing treatment with anastrozole or letrozole.</p> <p>NB: No prior treatment with a CDK 4/6 inhibitor unless either ribociclib or abemaciclib 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 palbociclib has been received as part of the compassionate use scheme and the patient meets all the other commissioning criteria.</p>
Treatment Intent	Palliative
Frequency and number of cycles	<p>Every 28 days</p> <p>Until disease progression or excessive toxicity or patient choice to discontinue.</p>
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. • Monitor FBC at baseline then at the beginning of each cycle for 6 months and then every 3 months thereafter or as clinically indicated. • If neuts ≥ 1 and PLT ≥ 100 proceed with treatment. • If neuts < 1 or PLT < 100 withhold palbociclib and alert consultant. • Monitor U&E and LFT at each cycle for 6 months and then every 3 months thereafter or as clinically indicated. • The most common Grade ≥ 3 adverse reactions of palbociclib were neutropenia, leukopenia, anaemia, fatigue, increased AST/ALT and infections. • If patient is pre or peri-menopausal they must have undergone ovarian ablation or suppression with LHRH agonist treatment • Dose Modifications of palbociclib: First dose reduction to 100mg/day, second dose reduction to 75mg/day. If further dose reduction required, discontinue treatment • Haematological toxicities, see table 1. • Non-haematological toxicities, see table 2. • Hepatic impairment: No dose adjustment required for patients with mild or moderate hepatic impairment (Child-Pugh classes A and B). For patients with severe hepatic impairment (Child-Pugh class C), the recommended dose of palbociclib is 75 mg once daily for 21 consecutive days followed by 7 days off treatment. Letrozole can be given in severe hepatic impairment, patients require close supervision. • Renal impairment: No dose adjustment is required for patients with mild, moderate or severe renal impairment (CrCl ≥ 15 mL/min). Insufficient data are available in patients requiring haemodialysis to provide any dose adjustment recommendation. • Interstitial lung disease/pneumonitis: Monitor patients for pulmonary symptoms indicative of ILD/pneumonitis (e.g. hypoxia, cough, dyspnoea). In patients who have new or worsening respiratory symptoms and are suspected to have developed ILD/pneumonitis, interrupt treatment immediately and evaluate the patient. Permanently discontinue in patients with severe ILD or pneumonitis. • Venous thromboembolic events: Monitor patients for clinical signs and symptoms of venous thrombosis and pulmonary embolism and treat as medically appropriate.

Protocol No	BRE-062	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	09.05.2024	Authorising consultant (usually NOG Chair)	J.Hall

	<ul style="list-style-type: none"> • Drug interactions (for comprehensive list refer to BNF/SPC): Avoid concomitant use of palbociclib with strong CYP3A inhibitors (eg ketoconazole, itraconazole, clarithromycin) and consider an alternative medication with no or minimal CYP3A inhibition. If patients must be co-administered a strong CYP3A inhibitor, reduce palbociclib dose to 75mg/day. If the strong inhibitor is discontinued, increase the palbociclib dose (after 3-5 half-lives of the inhibitor) to the dose used prior to the initiation of the strong CYP3A inhibitor. Concomitant use of palbociclib with strong CYP3A4 inducers (carbamazepine, phenytoin, rifampicin) should be avoided as it may lead to reduced palbociclib exposure. Use with St Johns Wort is contraindicated Caution with CYP3A substrates with a narrow therapeutic index (e.g. cyclosporine, fentanyl, tacrolimus); the dose may need to be reduced as palbociclib may increase their exposure. • For oral self-administration: refer to local Trust policy on oral anti-cancer medicines and supply Patient Information Leaflet.
Reference(s)	SpC accessed online 22.01.2024 Letrozole and Palbociclib KMCC protocol BRE-062v4 CDF list 1.169 accessed online 19.01.21

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

Table 1: Haematological Toxicities (Table applies to all haematological adverse reactions except lymphopenia (unless associated with clinical events, e.g., opportunistic infections)).

CTCAE Grade	Dose modifications of palbociclib
If PLT \geq 100 Neuts \geq 1	No dose adjustment is required.
Neuts 0.5 - <1.0 PLT 25 - 100	<u>Day 1 of cycle:</u> Withhold palbociclib, repeat complete blood count monitoring within 1 week. When recovered to PLT \geq 100 and Neuts \geq 1, start the next cycle at the <i>same dose</i> . Consider dose reduction in cases of prolonged (>1 week) recovery from Grade 3 neutropenia or recurrent Grade 3 neutropenia on Day 1 of subsequent cycles.
Grade 3 neutropenia (Neuts 0.5 - <1.0) and Fever \geq 38.5 °C and/or infection	Withhold palbociclib until recovery to Grade \leq 2 Resume at next lower dose.
Grade 4 e.g neuts <0.5 PLT <25	At any time: Withhold palbociclib until recovery to Grade \leq 2. Resume at next lower dose.

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Table 2 Non-haematological toxicities

CTCAE Grade	Dose modifications of palbociclib
Grade 1 or 2	No dose adjustment is required
Grade ≥3 non-haematological toxicity (if persisting despite medical treatment)	Withhold until symptoms resolve to: <ul style="list-style-type: none"> • Grade ≤1; • Grade ≤2 (if not considered a safety risk for the patient) Resume at the next lower dose.

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Repeat every 28 days

TTO	Drug	Dose	Route	Directions
Day 1	PALBOCICLIB	125mg	PO	Once DAILY for 21 days followed by a 7 day break Swallow whole, do not chew, crush or split tablets. Take the dose at approximately the same time each day. If a dose is missed or vomiting occurs, an additional dose should not be taken that day. Do not take with pomegranate, seville orange, grapefruit or grapefruit juice. Available as 125mg, 100mg or 75mg tablets.
	LETROZOLE	2.5mg	PO	Once DAILY

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