

Breast adjuvant/neoadjuvant PACLitaxel weekly

ID: 4103 v.2 **Endorsed** Essential Medicine List

Check for clinical trials in this patient group. Link to [Australian Clinical Trials](#) website

Some indications in this protocol are based on limited evidence; please refer to the individual evidence sections for more information.

The anticancer drug(s) in this protocol may have been included in the ADDIKD guideline. Dose recommendations in kidney dysfunction have yet to be updated to align with the ADDIKD guideline. Recommendations will be updated once the individual protocol has been evaluated by the reference committee. For further information refer to the ADDIKD guideline. To assist with calculations, use the [eviQ Estimated Glomerular Filtration Rate \(eGFR\) calculator](#).

International Consensus Guideline for Anticancer Drug Dosing in Kidney Dysfunction (ADDIKD)

2022

[Click here](#)



Related pages:

- [Breast adjuvant/neoadjuvant AC \(DOXOrubicin and CYCLOPHOSPHamide\) three weekly followed by PACLitaxel weekly overview](#)
- [Breast adjuvant AC \(DOXOrubicin and CYCLOPHOSPHamide\) dose dense followed by PACLitaxel weekly overview](#)
- [Breast adjuvant AC \(DOXOrubicin and CYCLOPHOSPHamide\) followed by PACLitaxel weekly and trastuzumab three weekly overview](#)
- [Breast adjuvant PACLitaxel weekly and trastuzumab three weekly](#)
- [Anti-cancer therapy before breast cancer surgery \(neoadjuvant therapy\)](#)

Treatment schedule - Overview

Cycle 1 to 12

Drug	Dose	Route	Day
PACLitaxel	80 mg/m ²	IV infusion	1

Frequency: 7 days

Cycles: 12

Drug status: Paclitaxel is on the [PBS general schedule](#)

Cost: ~ \$50 per cycle

Treatment schedule - Detail

The supportive therapies (e.g. antiemetics, premedications, etc.), infusion times, diluents, volumes and routes of administration, if included, are listed as defaults. They may vary between institutions and can be substituted to reflect individual institutional policy.

*Antiemetics if included in the treatment schedule are based upon recommendations from national and international guidelines. These are **defaults only** and may be substituted to reflect individual institutional policy. Select here for recommended doses of alternative antiemetics.*

Cycle 1

Day 1

Loratadine	10 mg (PO)	60 minutes before chemotherapy
Dexamethasone	8 mg (PO)	60 minutes before chemotherapy
PACLitaxel	80 mg/m ² (IV infusion)	in 250 mL sodium chloride 0.9% over 60 minutes (in non-PVC containers only)

Cycle 2

Day 1		
Loratadine	10 mg (PO)	60 minutes before chemotherapy
Dexamethasone	4 mg (PO)	60 minutes before chemotherapy
PACLitaxel	80 mg/m ² (IV infusion)	in 250 mL sodium chloride 0.9% over 60 minutes (in non-PVC containers only)

Cycle 3 and 4

Day 1		
Loratadine	10 mg (PO)	60 minutes before chemotherapy
Metoclopramide	10 mg (PO)	one tablet when necessary (maximum of 30 mg/24 hours, up to 5 days)
PACLitaxel	80 mg/m ² (IV infusion)	in 250 mL sodium chloride 0.9% over 60 minutes (in non-PVC containers only)

Cycle 5 to 12

Day 1		
Metoclopramide	10 mg (PO)	one tablet when necessary (maximum of 30 mg/24 hours, up to 5 days)
PACLitaxel	80 mg/m ² (IV infusion)	in 250 mL sodium chloride 0.9% over 60 minutes (in non-PVC containers only)

Frequency: 7 days

Cycles: 12

Indications and patient population - Adjuvant

- Adjuvant treatment of node-positive breast cancer administered sequentially to an anthracycline and cyclophosphamide.

Indications and patient population - Neoadjuvant

- Neoadjuvant treatment for primary operable breast cancer or locally advanced breast cancer (stage II or stage III).
- Paclitaxel may be given sequentially **before** or **after** an anthracycline-based regimen. It is the consensus of the eviQ reference committee that either order of administration is acceptable.

Clinical information

Venous access required	IV cannula (IVC) or central venous access device (CVAD) is required to administer this treatment. Read more about central venous access device line selection
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Hypersensitivity/infusion related reaction	High risk with paclitaxel.
Premedication	<p>The product information for paclitaxel recommends a higher dose of dexamethasone to be used. However, many clinicians use a reducing premedication regimen with an anecdotally acceptable rate of hypersensitivity reactions (HSRs).</p> <p>Please refer to the treatment schedule for suggested premedication regimen. This may be substituted to reflect institutional policy.</p> <p>Read more about premedication for prophylaxis of taxane hypersensitivity reactions (infusion related reactions and anaphylaxis)</p>
Emetogenicity LOW	<p>Suggested default antiemetics have been added to the treatment schedule, and may be substituted to reflect institutional policy.</p> <p>Note: dexamethasone has been included both as an antiemetic and premedication for hypersensitivity in this protocol.</p> <p>Ensure that patients also have sufficient antiemetics for breakthrough emesis:</p> <p>Metoclopramide 10 mg three times a day when necessary (maximum of 30 mg/24 hours, up to 5 days) OR</p> <p>Prochlorperazine 10 mg PO every 6 hours when necessary.</p> <p>Read more about preventing anti-cancer therapy induced nausea and vomiting</p>
Peripheral neuropathy	<p>Assess prior to each treatment. If a patient experiences grade 2 or greater peripheral neuropathy, a dose reduction, delay, or omission of treatment may be required; review by medical officer before commencing treatment.</p> <p>Read more about peripheral neuropathy</p> <p>Link to chemotherapy-induced peripheral neuropathy screening tool</p>
Growth factor support	<p>G-CSF (short or long-acting) is available on the PBS for chemotherapy induced neutropenia depending on clinical indication and/or febrile neutropenia risk.</p> <p>Access the PBS website</p>
Blood tests	FBC, EUC and LFTs at baseline, prior to each treatment for 4 weeks, then monthly and as clinically indicated.
Hepatitis B screening and prophylaxis	<p>Routine screening for HBsAg and anti-HBc is recommended prior to initiation of treatment. Prophylaxis should be determined according to individual institutional policy.</p> <p>Read more about hepatitis B screening and prophylaxis in cancer patients requiring cytotoxic and/or immunosuppressive therapy</p>
Vaccinations	<p>Live vaccines are contraindicated in cancer patients receiving immunosuppressive therapy and/or who have poorly controlled malignant disease.</p> <p>Refer to the recommended schedule of vaccination for immunocompromised patients, as outlined in the Australian Immunisation Handbook.</p> <p>Read more about COVID-19 vaccines and cancer.</p>
Fertility, pregnancy and lactation	<p>Cancer treatment can have harmful effects on fertility and this should be discussed with all patients of reproductive potential prior to commencing treatment. There is a risk of foetal harm in pregnant women. A pregnancy test should be considered prior to initiating treatment in females of reproductive potential if sexually active. It is important that all patients of reproductive potential use effective contraception whilst on therapy and after treatment finishes. Effective contraception methods and adequate contraception timeframe should be discussed with all patients of reproductive potential. Possibility of infant risk should be discussed with breastfeeding patients.</p> <p>Read more about the effect of cancer treatment on fertility</p>

Dose modifications

Evidence for dose modifications is limited, and the recommendations made on eviQ are intended as a guide only. They are generally conservative with an emphasis on safety. Any dose modification should be based on clinical judgement, and the

individual patient's situation including but not limited to treatment intent (curative vs palliative), the anti-cancer regimen (single versus combination therapy versus chemotherapy versus immunotherapy), biology of the cancer (site, size, mutations, metastases), other treatment related side effects, additional co-morbidities, performance status and patient preferences. Suggested dose modifications are based on clinical trial findings, product information, published guidelines and reference committee consensus. The dose reduction applies to each individual dose and not to the total number of days or duration of treatment cycle unless stated otherwise. Non-haematological gradings are based on [Common Terminology Criteria for Adverse Events \(CTCAE\)](#) unless otherwise specified. Renal and hepatic dose modifications have been standardised where possible. For more information see dosing considerations & disclaimer.

The dose recommendations in kidney dysfunction (i.e. renal impairment) displayed may not reflect those in the ADDIKD guideline and have been included for historical reference only. Recommendations will be updated once the individual protocol has been evaluated by the reference committee, with this version of the protocol then being archived. Clinicians are expected to refer to the ADDIKD guideline prior to prescribing in kidney dysfunction.

[International Consensus Guideline for Anticancer Drug Dosing in Kidney Dysfunction \(ADDIKD\)](#).

Note: all dose reductions are calculated as a percentage of the starting dose.

Haematological toxicity	
ANC x 10 ⁹ /L (pre-treatment blood test)	
0.5 to less than 1.0	Delay treatment until recovery and consider adding G-CSF for subsequent cycles *
less than 0.5	Delay treatment until recovery and consider adding G-CSF for subsequent cycles * If patient is already on G-CSF, consider reducing paclitaxel by 25% for subsequent cycles
Febrile neutropenia	Delay treatment until recovery and consider adding G-CSF for subsequent cycles * If patient is already on G-CSF, consider reducing paclitaxel by 25% for subsequent cycles
*Note: if pegfilgrastim is prescribed, ensure there is a 14 day interval between consecutive doses	
Platelets x 10 ⁹ /L (pre-treatment blood test)	
75 to less than 100	Refer to local institutional guidelines; it is the view of the expert clinicians that treatment should continue if patient is clinically well
50 to less than 75	Delay treatment until recovery
less than 50	Delay treatment until recovery and consider reducing paclitaxel by 25% for subsequent cycles
Renal impairment	
No dose modifications necessary	
Hepatic impairment	
Hepatic dysfunction	
Mild	Reduce paclitaxel by 25%
Moderate	Reduce paclitaxel by 50%
Severe	Omit paclitaxel
Peripheral neuropathy	
Grade 2, which is present at the start of the next cycle	Reduce paclitaxel by 25%; If persistent, reduce paclitaxel by 50%
Grade 3 or Grade 4	Omit paclitaxel
Mucositis and stomatitis	
Grade 2	Delay treatment until toxicity has resolved to Grade 1 or less and reduce the dose for subsequent cycles as follows: 1 st occurrence: No dose reduction

Mucositis and stomatitis

	2 nd occurrence: Reduce paclitaxel by 25% 3 rd occurrence: Reduce paclitaxel by 50% 4 th occurrence: Omit paclitaxel
Grade 3 or Grade 4	Delay treatment until toxicity has resolved to Grade 1 or less and reduce the dose for subsequent cycles as follows: 1 st occurrence: Reduce paclitaxel by 50% 2 nd occurrence: Omit paclitaxel

Interactions

Drug interactions in eviQ protocols are under review and being updated to align with current literature. Further site-wide updates and changes will occur in due course. [References & Disclaimer](#)

The drug interactions shown below are not an exhaustive list. For a more comprehensive list and for detailed information on specific drug interactions and clinical management, please refer to the specific drug product information and the following key resources:

- [MIMS - interactions tab](#) (includes link to a CYP-450 table) (login required)
- [Australian Medicines Handbook \(AMH\) – interactions tab](#) (login required)
- [Micromedex Drug Interactions](#) (login required)
- [Cancer Drug Interactions](#)
- [Cytochrome P450 Drug Interactions](#)

Paclitaxel

	Interaction	Clinical management
CYP3A4 inhibitors (e.g. aprepitant, azole antifungals, clarithromycin, erythromycin, grapefruit juice, ritonavir etc.)	Increased toxicity of paclitaxel possible due to reduced clearance	Monitor for paclitaxel toxicity
CYP3A4 inducers (e.g. carbamazepine, phenytoin, phenobarbitone, rifampicin, St John's wort etc.)	Reduced efficacy of paclitaxel possible due to increased clearance	Monitor for decreased clinical response to paclitaxel
CYP2C8 inhibitors (e.g. pazopanib, lapatinib, gemfibrozil, montelukast etc.)	Increased toxicity of paclitaxel possible due to reduced clearance	Monitor for paclitaxel toxicity
Metronidazole, disulfiram	Intolerance reaction to alcohol content of diluent of intravenous paclitaxel	Avoid combination
Doxorubicin	Administration schedule can influence systemic exposure to doxorubicin	Minimise by administering doxorubicin first in regimens using the combination
Cisplatin	Administration schedule may influence the development of myelosuppression	Minimise toxicity by administering paclitaxel first in regimens using the combination

General		
	Interaction	Clinical management
Warfarin	Anti-cancer drugs may alter the anticoagulant effect of warfarin.	Monitor INR regularly and adjust warfarin dosage as appropriate; consider alternative anticoagulant.
Direct oral anticoagulants (DOACs) e.g. apixaban, rivaroxaban, dabigatran	Interaction with both CYP3A4 and P-gp inhibitors /inducers. DOAC and anti-cancer drug levels may both be altered, possibly leading to loss of efficacy or toxicity (i.e. increased bleeding).	Apixaban: avoid concurrent use with strong CYP3A4 and P-gp inhibitors. If treating VTE, avoid use with strong CYP3A4 and P-gp inducers. Rivaroxaban: avoid concurrent use with strong CYP3A4 and P-gp inhibitors. Dabigatran: avoid combination with strong P-gp inducers and inhibitors. If concurrent use is unavoidable, monitor closely for efficacy/toxicity of both drugs.
Digoxin	Anti-cancer drugs can damage the lining of the intestine; affecting the absorption of digoxin.	Monitor digoxin serum levels; adjust digoxin dosage as appropriate.
Antiepileptics	Both altered antiepileptic and anti-cancer drug levels may occur, possibly leading to loss of efficacy or toxicity.	Where concurrent use of an enzyme-inducing antiepileptic cannot be avoided, monitor antiepileptic serum levels for toxicity, as well as seizure frequency for efficacy; adjust dosage as appropriate. Also monitor closely for efficacy of the anti-cancer therapy.
Antiplatelet agents and NSAIDs	Increased risk of bleeding due to treatment related thrombocytopenia.	Avoid or minimise combination. If combination deemed essential, (e.g. low dose aspirin for ischaemic heart disease) monitor for signs of bleeding.
Serotonergic drugs, including selective serotonin reuptake inhibitors (SSRIs e.g. paroxetine) and serotonin noradrenaline reuptake inhibitors (SNRIs e.g. venlafaxine)	Increased risk of serotonin syndrome with concurrent use of 5-HT3 receptor antagonists (e.g. palonosetron, ondansetron, granisetron, tropisetron, dolasetron, etc.)	Avoid combination. If combination is clinically warranted, monitor for signs and symptoms of serotonin syndrome (e.g. confusion, agitation, tachycardia, hyperreflexia). For more information link to TGA Medicines Safety Update
Vaccines	Diminished response to vaccines and increased risk of infection with live vaccines.	Live vaccines (e.g. BCG, MMR, zoster and varicella) are contraindicated in patients on immunosuppressive therapy. Use with caution in patients on non-immunosuppressive therapy. For more information; refer to the recommended schedule of vaccination for cancer patients, as outlined in the Australian Immunisation Handbook

Administration

eviQ provides safe and effective instructions on how to administer cancer treatments. However, eviQ does not provide every treatment delivery option, and is unable to provide a comprehensive list of cancer treatment agents and their required IV line giving set/filter. There may be alternative methods of treatment administration, and alternative supportive treatments that are also appropriate. Please refer to the individual

Day 1

Approximate treatment time: 90 minutes

Safe handling and waste management

Safe administration

General patient assessment prior to each day of treatment.

Peripheral neuropathy assessment tool

Any toxicity grade 2 or greater may require dose reduction, delay or omission of treatment and review by medical officer before commencing treatment.

Prime required IV lines with sodium chloride 0.9%:

- low sorbing IV giving set with 0.22 micron filter must be used for paclitaxel
- attach a second IV line via a luer lock connector as close as possible to the site of injection
 - this may be required in case of a hypersensitivity reaction.

Insert IV cannula or access [TIVAD](#) or [CVAD](#).

Pre treatment medication

Verify [taxane premedication](#) taken or administer as prescribed.

Administer antiemetics if required

🕒 Chemotherapy - Time out

Paclitaxel

Administer paclitaxel (irritant with vesicant properties):

- via controlled IV infusion over 60 minutes
- flush with ~ 100 mL of sodium chloride 0.9%
- observe for hypersensitivity reactions.

Stop infusion at first sign of reaction:

- if symptoms are mild and resolve when infusion is stopped, consider recommencing infusion after review by medical officer at a slower rate
- for severe reactions seek medical assistance immediately and do not restart infusion
- hypersensitivity reactions are more common during the first 2 cycles in the first 30 minutes.

Remove IV cannula and/or deaccess [TIVAD](#) or [CVAD](#).

Continue [safe handling](#) precautions until 7 days after completion of drug(s)

Discharge information

Antiemetics

- Antiemetics as prescribed.

Premedication

- Premedication for next cycle of chemotherapy.

Growth factor support

- Arrangements for administration if prescribed.

Patient information

- Ensure patient receives patient information sheet.

Side effects

The side effects listed below are not a complete list of all possible side effects for this treatment. Side effects are categorised into the approximate onset of presentation and should only be used as a guide.

Immediate (onset hours to days)

Hypersensitivity reaction	Anaphylaxis and infusion related reactions can occur with taxanes. Read more about premedication for prophylaxis of taxane hypersensitivity reactions
Nausea and vomiting	Read more about prevention of treatment induced nausea and vomiting
Taste and smell alteration	Read more about taste and smell changes

Early (onset days to weeks)

Neutropenia	Abnormally low levels of neutrophils in the blood. This increases the risk of infection. Any fever or suspicion of infection should be investigated immediately and managed aggressively. Read more about immediate management of neutropenic fever
Thrombocytopenia	A reduction in the normal levels of functional platelets, increasing the risk of abnormal bleeding. Read more about thrombocytopenia
Fatigue	Read more about fatigue
Diarrhoea	Read more about treatment induced diarrhoea
Peripheral neuropathy	Typically symmetrical sensory neuropathy, affecting the fingers and toes, sometimes progressing to the hands and feet. It is associated with several classes of anti-cancer drugs. These include taxanes, platinum-based compounds, vinca alkaloids and some drugs used to treat multiple myeloma. Read more about peripheral neuropathy
Oral mucositis	Erythematous and ulcerative lesions of the gastrointestinal tract (GIT). It commonly develops following chemotherapy, radiation therapy to the head, neck or oesophagus, and high dose chemotherapy followed by a blood and marrow transplant (BMT). Read more about oral mucositis
Skin rash	Anti-cancer drugs can cause a number of changes in the skin with maculo-papular rash the most common type of drug-induced skin reaction. Read more about skin rash
Arthralgia and myalgia	Generalised joint pain or and/or stiffness and muscle aches, often worse upon waking or after long periods of inactivity. Can improve with movement. May be mild or severe, intermittent or constant and accompanied by inflammation. Read more about arthralgia and myalgia

Late (onset weeks to months)

Anaemia	Abnormally low levels of red blood cells (RBCs) or haemoglobin in the blood. Read more about anaemia
Alopecia	Hair loss may occur from all parts of the body. Patients can also experience mild to moderate discomfort of the hair follicles, and rarely pain as the hair is falling out. Read more about alopecia
Nail changes	Hyperpigmentation, paronychia, onycholysis, splinter haemorrhage, pyogenic granuloma formation, subungal haematoma and subungal hyperkeratosis are some of the nail changes associated with anti-cancer drugs. Read more about nail toxicities

Delayed (onset months to years)

Menopausal symptoms

Irregular or absent periods, hot flushes, mood swings, sleep disturbance, night sweats, vaginal dryness, decreased libido and dyspareunia. This is caused by ovarian failure and may be temporary or permanent.

Evidence - Adjuvant

The evidence supporting the use of weekly paclitaxel comes from a randomised controlled trial reported by Sparano et al 2008.¹

Between October 1999 and January 2002, 4950 eligible patients were randomised to receive 4 cycles of doxorubicin and cyclophosphamide (AC) every 3 weeks followed by 4 cycles of 3 weekly paclitaxel or docetaxel, or 12 cycles of weekly paclitaxel or docetaxel.

All patients were either axillary lymph-node positive or high-risk, lymph-node negative.

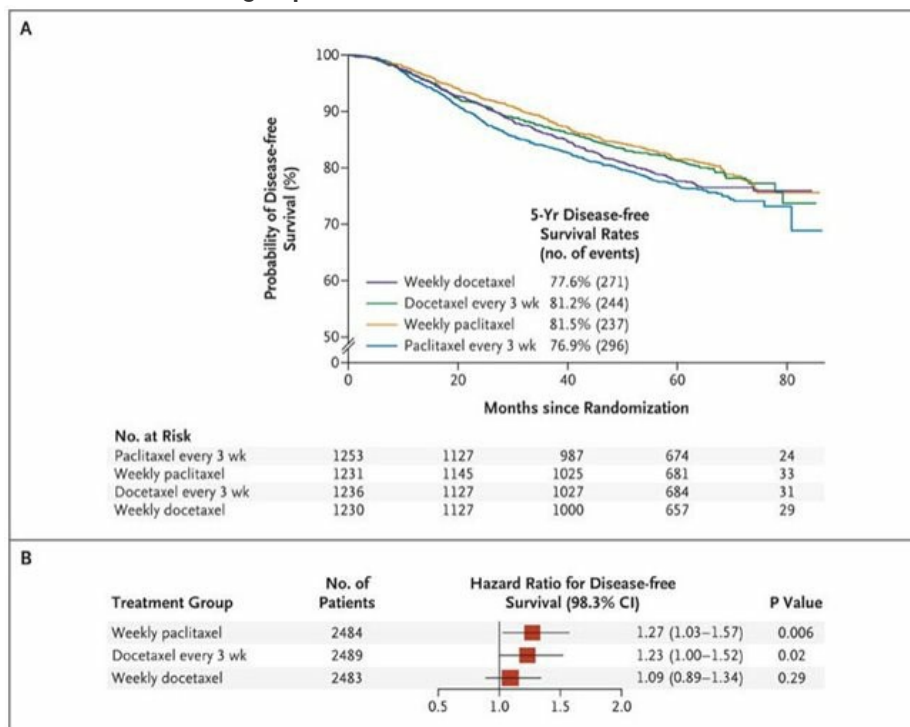
The primary end point was disease free survival (DFS).

Efficacy

After a median follow-up of 63.8 months, compared with the group receiving paclitaxel every 3 weeks, there was significantly better DFS in the groups receiving weekly paclitaxel (HR=1.27; $p=0.006$) and 3 weekly docetaxel (HR=1.23; $p=0.02$) but not in the group receiving weekly docetaxel (HR=1.09; $p=0.29$).

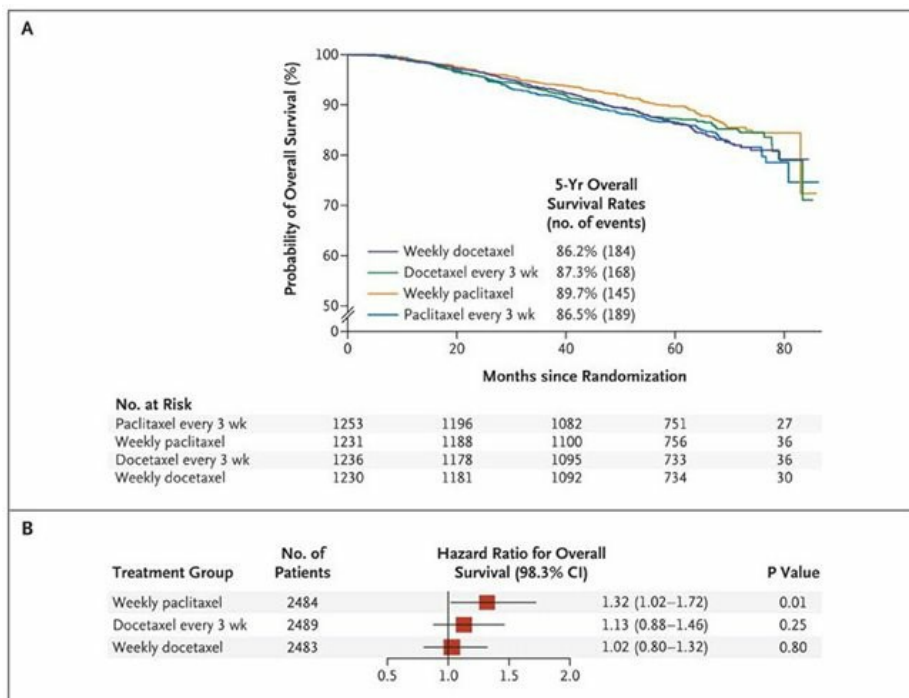
Compared to 3 weekly paclitaxel, overall survival (OS) was also significantly better in the group receiving weekly paclitaxel (HR=1.32; $p=0.01$) but not in the groups receiving 3 weekly or weekly docetaxel.

Kaplan-Meier curve for DFS for 4 treatment groups¹



© N Engl J Med 2008

Kaplan-Meier curve for OS for 4 treatment groups¹



© N Engl J Med 2008

Toxicity

28% of the patients receiving weekly paclitaxel, 30% of those receiving 3 weekly paclitaxel, 71% of those receiving docetaxel every 3 weeks and 45% of those receiving weekly docetaxel experienced grade 3 or 4 toxicities.

The incidence of grade 3 or 4 neuropathy in the 4 groups ranged from 4 to 8%, but the group receiving weekly paclitaxel had significantly higher incidence of grade 2,3 or 4 neuropathy (27%) than any of the other treatment groups ($p < 0.001$ for each comparison).¹

Table of toxicities¹

Table 2. Toxic Effects of Paclitaxel and Docetaxel.*

Effect	Paclitaxel Every 3 Wk	Weekly Paclitaxel	Docetaxel Every 3 Wk	Weekly Docetaxel
		<i>percent</i>		
Neutropenia†	4	2	46	3
Febrile neutropenia†	<1	1	16	1
Infection	3	3	13	4
Stomatitis	<1	0	5	2
Fatigue	2	3	9	11
Myalgia	7	2	6	1
Arthralgia	6	2	6	1
Lacrimation	<1	0	<1	5
Grade 3 or 4 neuropathy	5	8	4	6
Grade 2, 3, or 4 neuropathy	20	27	16	16

* The table lists the most common grade 3 and 4 toxic effects and grade 2, 3, and 4 neuropathies (i.e., those that occurred in at least 5% of all treated patients) resulting from the taxane component of therapy.

† Information on only grade 4 neutropenia (<500 polymorphonuclear neutrophils per cubic millimeter) was collected.

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Evidence - Neoadjuvant

Anthracycline-based and taxane-based therapies are frequently used as preoperative systemic treatments for patients with locally advanced disease at presentation.^{2,3} The incorporation of a sequential taxane following an anthracycline has improved patient outcomes in the neo/adjuvant setting.⁴ Some studies have shown that the addition of weekly paclitaxel after an anthracycline-based regimen is associated with reduction in risk of relapse.^{5,6} While most adjuvant and neoadjuvant trials have typically

incorporated a taxane after the anthracycline-based regimen on the basis of historical precedent, there is some data to suggest that administering the taxane before the anthracycline may be more effective.^{4,7} **It is the consensus of the eviQ reference committee that either order of administration is acceptable.**

The combination of doxorubicin and cyclophosphamide followed by paclitaxel has been used successfully in the adjuvant setting. (Link to [ID 4113 Breast adjuvant/neoadjuvant AC \(DOXOrubicin and CYCLOPHOSPHamide\) three weekly followed by PACLitaxel weekly overview](#)). In the neoadjuvant setting the combination of AC followed by paclitaxel (or vice versa) has been used as the control arm in phase II studies.^{8,9} However, a search of the literature did not find any strong phase III clinical trial evidence for use of paclitaxel given before or after AC in the neoadjuvant setting, despite this combination being considered a standard of care. Whilst there have been some phase III trials that have shown efficacy of the addition of paclitaxel, this has been in combination with other anthracycline-based regimens (e.g. EC, FEC, FAC).^{7,10,11}

The expert reference panel supported publication of this protocol on the basis of the information summarised below. The committee was most strongly influenced by the extensive use of this regimen in the adjuvant setting.

Source	Study & year published	Supports use	Is the dose and regimen consistent with the protocol?	Comments
Phase II trial	Abraham, et al. 2015 ⁸ (NSABP foundation study FB-9)	Yes (control arm)	Yes (paclitaxel given before AC)	Paclitaxel q1w x 12 cycles, OR Eribulin 1.4 mg/m ² day 1 and 8, q3w x 4 cycles, followed by AC q3w x 4 cycles
	Saura et al. 2013 ⁹	Yes (control arm)	Yes (AC given before paclitaxel)	AC q3w x 4 cycles followed by either: ixabepilone 40 mg/m ² q3ws x 4 cycles, OR paclitaxel 80 mg/m ² q1w x 12 cycles
Phase III trial	Earl et al. 2014 ⁷ (Neo-tAnG0)	Yes	No	Paclitaxel 175 mg/m ² q2w +/- gemcitabine 2000 mg/m ² q2w x 4 cycles followed by EC q3w x 4 cycles OR Same drugs/dose as above but given in the reverse order
	Green et al 2005 ¹⁰	Yes	No	Paclitaxel q1w x 12 cycles OR paclitaxel q3w x 4 cycles followed by FAC (standard doses) q3w x 4 cycles
Retrospective analysis	Alvarez et al. 2010 ¹¹ (MD Anderson study)	Yes	No	FAC/FEC followed by paclitaxel vs. paclitaxel followed by FAC/FEC
Guidelines	Date published/ revised	Supports use	Is the dose and regimen consistent with the protocol?	Comments
NCCN guidelines	V2. 2017	Yes	No doses stated	-
CCO	Feb 2017	Yes	Yes (AC given before paclitaxel)	Adjuvant/neoadjuvant protocol AC q3w followed by paclitaxel q1w +/- trastuzumab
BCCA	Aug 2016	Yes	Yes (paclitaxel given before AC)	Neoadjuvant protocol Paclitaxel q1w followed by AC q3w
ESMO clinical practice guidelines	2015	Yes	No doses stated	Primary (neoadjuvant) systemic therapy: Sequential regimen of anthracyclines and taxanes is recommended for the vast majority of patients

Efficacy

A summary of the evidence supporting the effect of this protocol is below.

Study	Results				
	No. of patients	Pathologic complete response (pCR)	Clinical objective complete response	Partial response and/or stable disease	Conclusion
NSABP foundation study (FB-9)⁸					
Paclitaxel followed by AC (control arm)	n = 19	5 (26%)	1 (5%)	16 (88%)	Substitution of eribulin for paclitaxel did not suggest increased pCR
Eribulin followed by AC (treatment arm)	n = 30	5 (17%)	4 (13%)	21 (70%)	
Saura et al. 2013⁹					
AC followed by paclitaxel (control arm)	n = 144	25.2%	48 (32.7%)	66 (44.9%) 17 (11.6%)	No significant difference in efficacy between the two arms
AC followed by ixabepilone (treatment arm)	n = 145	24.3%	41 (27.7%)	79 (53.4%) 14 (9.5%)	

In the retrospective analysis from the M.D. Anderson Cancer Center group, data from 1414 patients treated in the neoadjuvant setting were used to compare the results among patients treated with paclitaxel followed by fluorouracil, doxorubicin, and cyclophosphamide (FAC)/FEC (n = 226) with those of patients treated with the reverse sequence of FAC/FEC followed by paclitaxel (n = 1188). The corresponding rates of pathologic complete responses (pCR) with the two sequences were 20.9% and 12.4% (P = 0.04). In multivariate analysis, after adjustments for period of diagnosis, age, clinical stage, hormone-receptor status, grade, and lymphovascular invasion, the sequence with the anthracycline first was associated with a higher risk of relapse (HR = 1.49; P = 0.01) but not death (HR = 1.28; P = 0.17).¹¹

Toxicity

In the NSABP FB-9 trial both the weekly paclitaxel and eribulin regimens were well tolerated, with only one grade 3 event (diarrhoea) and no grade 4 events reported in the paclitaxel arm. AC was well tolerated following both the weekly paclitaxel and eribulin regimens. Grade 3/4 toxicities associated with the AC component of the regimen were mainly haematologic (neutropenia and febrile neutropenia).⁸

Treatment-related toxicities reported in the paclitaxel-AC arm of the NSABP FB-9 trial⁸

Adverse event	NSABP FB-9 ⁸					
	Paclitaxel (n= 19)			AC (after paclitaxel) (n= 19)		
	Grade 2	Grade 3	Grade 4	Grade 2	Grade 3	Grade 4
Neutropenia	2 (10.5%)	0	0	0	3 (15.8%)	6 (31.6%)
Febrile neutropenia	0	0	0	0	1 (5.3%)	0
Fatigue	3 (15.8%)	0	0	0	1 (5.3%)	0
Nausea	2 (10.5%)	0	0	NR	N/R	NR
Vomiting	2 (10.5%)	0	0	NR	N/R	NR
Constipation	2 (10.5%)	0	0	NR	N/R	NR
Diarrhoea	2 (10.5%)	1 (5.3%)	0	NR	N/R	NR
Stomatitis	0	0	0	0	1 (5.3%)	0

	NSABP FB-9 ⁸					
Sensory neuropathy	2 (10.5%)	0	0	NR	NR	NR

References

- 1 Sparano, J. A., M. Wang, S. Martino, et al. 2008. "Weekly paclitaxel in the adjuvant treatment of breast cancer." *N.Engl.J Med.* 358(16):1663-1671.
- 2 Gianni, L., W. Eiermann, V. Semiglazov, et al. 2010. "Neoadjuvant chemotherapy with trastuzumab followed by adjuvant trastuzumab versus neoadjuvant chemotherapy alone, in patients with HER2-positive locally advanced breast cancer (the NOAH trial): a randomised controlled superiority trial with a parallel HER2-negative cohort." *Lancet* 375(9712):377-384.
- 3 NCCN - Clinical Practice Guidelines in Oncology - Breast Cancer - Version 2.2017
- 4 Bines, J., H. Earl, A. C. Buzaid, et al. 2014. "Anthracyclines and taxanes in the neo/adjuvant treatment of breast cancer: does the sequence matter?" *Ann Oncol* 25(6):1079-1085.
- 5 Martin, M., A. Rodriguez-Lescure, A. Ruiz, et al. 2008. "Randomized phase 3 trial of fluorouracil, epirubicin, and cyclophosphamide alone or followed by Paclitaxel for early breast cancer." *J Natl Cancer Inst* 100(11):805-814.
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History

Version 2

Date	Summary of changes
08/02/2023	As per reference committee consensus, removed: <ul style="list-style-type: none"> • Ranitidine recall flag • Ranitidine from treatment schedule detail. Version number increased to V.2.

Version 1

Date	Summary of changes
25/08/2022	New multi-indication protocol approved electronically by Medical Oncology reference committee.
30/08/2022	Protocol published on eviQ. Next review in 2 years.

As ID 4103 Breast adjuvant/neoadjuvant PACLitaxel weekly replaces two existing approved protocols, their individual History sections are included below for consistency in documentation.

ID 132 Breast adjuvant PACLitaxel weekly version 7	
Date	Summary of changes
03/08/2009	Review, new dose modifications and transferred to eviQ
28/06/2010	Haematological dose modifications updated (20% changed to 25% dose reduction; cut-off for platelets for dose reduction changed from $10 \times 10^9/L$ to $50 \times 10^9/L$).
16/12/2010	New format to allow for export of protocol information. Protocol version number changed to V.2. Antiemetics and premedications added to the treatment schedule. Additional Clinical Information, Key Prescribing table and Key Administration table combined into new section titled Clinical Considerations. Drug specific information placed behind the drug name link.
11/07/2011	Premedication regimen reviewed and updated at reference committee meeting 20/05/11 (premedications the night before chemotherapy no longer included in this protocol).
21/10/2011	Premedications changed to PO as the default (may be substituted as per institutional guidelines or medical orders).
27/04/2012	Protocol reviewed at Medical Oncology Reference Committee meeting. No changes and next review in 2 years.
20/11/2012	Addition of information to Clinical Information table and Dose modifications that if pegfilgrastim (Neulasta) is prescribed it requires a 14 day interval between doses.
15/02/2013	Restrict paclitaxel volume to 250 mL as 500 mL not suitable for the majority of BSAs.
17/06/2013	Reducing premedication included as default in treatment schedule.
09/05/2014	Protocol reviewed by email survey. No change and next review in 2 years. PHC view removed.
22/06/2015	Protocol reviewed electronically by Medical Oncology Reference committee. No changes and next review in 2 years.
18/02/2016	Discussion with Medical Oncology Reference Committee Chairs and protocol to be reviewed every 5 years. Next review due in 4 years.
31/05/2017	Transferred to new eviQ website. Protocol version number changed to V.4.
10/05/2018	Haematological dose modifications updated as per consensus of the expert clinician group. Version number changed to V.5.
06/12/2018	Paclitaxel diluent changed from glucose 5% to sodium chloride 0.9%. Version change to V.6.
08/10/2019	Clinical information updated with PBS expanded indications for GCSF.
13/12/2019	Premedication added to administration discharge information section.
17/04/2020	"Ranitidine recall" flag added.
12/10/2020	Protocol reviewed electronically by Medical Oncology Reference Committee. No changes. Next review in 5 years.

ID 3377 Breast neoadjuvant PACLitaxel weekly (part 2) version 3	
Date	Summary of changes
03/11/2017	New protocol taken to medical oncology reference committee meeting
03/05/2018	Protocol approved and published on eviQ.

06/12/2018	Paclitaxel diluent changed from glucose 5% to sodium chloride 0.9%. Version change to V.2.
08/10/2019	Protocol reviewed at Medical Oncology Reference Committee meeting on 30/08/2019. Clinical information updated with PBS expanded indications for GCSF. Next review in 5 years.
13/12/2019	Premedication added to administration discharge information section.
17/04/2020	"Ranitidine recall" flag added.

The information contained in this protocol is based on the highest level of available evidence and consensus of the eviQ reference committee regarding their views of currently accepted approaches to treatment. Any clinician (medical oncologist, haematologist, radiation oncologist, medical physicist, radiation therapist, pharmacist or nurse) seeking to apply or consult this protocol is expected to use independent clinical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. While eviQ endeavours to link to reliable sources that provide accurate information, eviQ and the Cancer Institute NSW do not endorse or accept responsibility for the accuracy, currency, reliability or correctness of the content of linked external information sources. Use is subject to eviQ's disclaimer available at www.eviq.org.au

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The currency of this information is guaranteed only up until the date of printing, for any updates please check:

<https://www.eviq.org.au/p/4103>

08 Jun 2023

Patient information - Breast cancer adjuvant/neoadjuvant - Paclitaxel weekly

Patient's name:

Your treatment

This treatment can be given either before or after surgery. The aim of neoadjuvant (before surgery) treatment is to shrink the tumour to make it easier to remove. Your doctor will advise which treatment plan is recommended for you.

The treatment schedule below explains how the drug for this treatment is given.


Paclitaxel

This treatment cycle is repeated every 7 days. You will have 12 cycles. Your doctor will discuss your treatment plan with you.

Day	Treatment	How it is given	How long it takes
1	Paclitaxel (<i>pak-li-TAX-el</i>)	By a drip into a vein	About 1.5 hours

When to get help

Anticancer drugs (drugs used to treat cancer) can sometimes cause serious problems. It is important to get medical help immediately if you become unwell.

 <p>IMMEDIATELY go to your nearest hospital Emergency Department, or contact your doctor or nurse if you have any of the following at any time:</p>	Emergency contact details Ask your doctor or nurse from your treating team who to contact if you have a problem
<ul style="list-style-type: none">• a temperature of 38°C or higher• chills, sweats, shivers or shakes• shortness of breath• uncontrolled vomiting or diarrhoea• pain, tingling or discomfort in your chest or arms• you become unwell.	Daytime:..... Night/weekend:..... Other instructions:.....

During your treatment immediately tell the doctor or nurse looking after you if you get any of the following problems:

- leaking from the area where the drugs are being given
- pain, stinging, swelling or redness in the area where the drugs are being given or at any injection sites
- a skin rash, itching, feeling short of breath, wheezing, fever, shivers, or feeling dizzy or unwell in any way (allergic reaction).

Other information about your treatment

Changes to your dose or treatment delays

Sometimes a treatment may be started at a lower dose or the dose needs to be changed during treatment. There may also be times when your treatment is delayed. This can happen if your doctor thinks you are likely to have severe side effects, if you get

severe side effects, if your blood counts are affected and causing delays in treatment, or if you are finding it hard to cope with the treatment. This is called a dose reduction, dose change or treatment delay. Your doctor will explain if you need any changes or delays to your treatment and the reason why.

Blood tests and monitoring

Anti-cancer drugs can reduce the number of blood cells in your body. You will need to have regular blood tests to check that your blood cell count has returned to normal. If your blood count is low, your treatment may be delayed until it has returned to normal. Your doctor or nurse will tell you when to have these blood tests.

Treatment before surgery (neoadjuvant therapy)

For more information see the eViQ patient information sheet on [Anti-cancer therapy before breast cancer surgery \(neoadjuvant therapy\)](#).

Other medications given during this treatment

- **Anti-sickness (anti-nausea) medication:** you may be given some anti-sickness medication. Make sure you take this medication as your doctor or nurse tells you, even if you don't feel sick. This can help to prevent the sickness starting.
- **G-CSF:** you may be given injection(s) of a drug called G-CSF (also called filgrastim, lipegfilgrastim or pegfilgrastim) under your skin. This helps to boost your white blood cell count. Your white blood cells help to fight infection. Lipegfilgrastim and pegfilgrastim are given once. Filgrastim is given for several days until your white blood cells recover. Your doctor will decide if you need this medication.
- **Paclitaxel premedication:** before your treatment with paclitaxel you may need to take some tablets called a premedication to help prevent you from having a reaction to the paclitaxel. The following table may be used to remind you when to take your premedication. Ask your doctor, nurse or pharmacist to fill it out for you. Sometimes after the first 4 treatments, if you have not had a reaction to paclitaxel, you may not be required to take any premedication.

Tablet	Dose	When to take

Tell your doctor or nurse if you have not taken your premedication before you have your treatment.

Side effects

Cancer treatments can cause damage to normal cells in your body, which can cause side effects. Everyone gets different side effects, and some people will have more problems than others.

The table below shows some of the side effects you may get with this treatment. You are unlikely to get all of those listed and you may also get some side effects that have not been listed.

Tell your doctor or nurse about any side effects that worry you. Follow the instructions below and those given to you by your doctor or nurse.

Immediate (onset hours to days)	
Allergic reaction	<ul style="list-style-type: none"> • Allergic reactions are uncommon but can be life threatening. • If you feel unwell during the infusion or shortly after it, or: <ul style="list-style-type: none"> ◦ get a fever, shivers or shakes ◦ feel dizzy, faint , confused or anxious ◦ start wheezing or have difficulty breathing ◦ have a rash, itch or redness of the face <p><u>While you are in hospital:</u> Tell your doctor or nurse immediately.</p> <p><u>After you leave:</u> Contact your doctor or nurse immediately, or go to the nearest hospital Emergency Department.</p>
Nausea and vomiting	<ul style="list-style-type: none"> • You may feel sick (nausea) or be sick (vomit). • Take your anti-sickness medication as directed even if you don't feel sick. • Drink plenty of fluids (unless you are fluid restricted). • Eat small meals more frequently. • Try food that does not require much preparation. • Try bland foods like dry biscuits or toast. • Gentle exercise may help with nausea. • Ask your doctor or nurse for eviQ patient information - Nausea and vomiting during cancer treatment. • Tell your doctor or nurse immediately, or go to the nearest hospital Emergency Department if you have uncontrolled vomiting or feel dizzy or light-headed.
Taste and smell changes	<ul style="list-style-type: none"> • You may find that food loses its taste or tastes different. • These changes are likely to go away with time. • Do your mouth care regularly. • Chew on sugar-free gum or eat sugar-free mints. • Add flavour to your food with sauces and herbs. • Ask your doctor or nurse for eviQ patient information - Taste and smell changes during cancer treatment.

Early (onset days to weeks)	
Infection risk (neutropenia)	<ul style="list-style-type: none"> • This treatment lowers the amount of white blood cells in your body. The type of white blood cells that help to fight infection are called neutrophils. Having low level of neutrophils is called neutropenia. If you have neutropenia, you are at greater risk of getting an infection. It also means that your body can't fight infections as well as usual. This is a serious side effect, and can be life threatening. • Wash your hands often. • Keep a thermometer at home and take your temperature regularly, and if you feel unwell. • Do your mouth care regularly. • Inspect your central line site (if you have one) daily for any redness, pus or swelling. • Limit contact with people who are sick. • Learn how to recognise the signs of infection. • Ask your doctor or nurse for eviQ patient information - Infection during cancer treatment. • Tell your doctor or nurse immediately, or go to the nearest hospital Emergency Department if you get any of the following signs or symptoms: <ul style="list-style-type: none"> ◦ a temperature of 38°C or higher ◦ chills, shivers, sweats or shakes ◦ a sore throat or cough ◦ uncontrolled diarrhoea ◦ shortness of breath ◦ a fast heartbeat ◦ become unwell even without a temperature.

<p>Low platelets (thrombocytopenia)</p>	<ul style="list-style-type: none"> • This treatment lowers the amount of platelets in your blood. Platelets help your blood to clot. When they are low, you are at an increased risk of bleeding and bruising. • Try not to bruise or cut yourself. • Avoid contact sport or vigorous exercise. • Clear your nose by blowing gently. • Avoid constipation. • Brush your teeth with a soft toothbrush. • Don't take aspirin, ibuprofen or other similar anti-inflammatory medications unless your doctor tells you to. • Tell your doctor or nurse if you have any bruising or bleeding. • Tell your doctor or nurse immediately, or go to your nearest hospital Emergency Department if you have any uncontrolled bleeding.
<p>Tiredness and lack of energy (fatigue)</p>	<ul style="list-style-type: none"> • You may feel very tired, have no energy, sleep a lot, and not be able to do normal activities or things you enjoy. • Do not drive or operate machinery if you are feeling tired. • Nap for short periods (only 1 hour at a time) • Prioritise your tasks to ensure the best use of your energy. • Eat a well balanced diet and drink plenty of fluids (unless you are fluid restricted). • Try some gentle exercise daily. • Allow your friends and family to help. • Tell your doctor or nurse if you get any of the symptoms listed above.
<p>Diarrhoea</p>	<ul style="list-style-type: none"> • You may get bowel motions (stools, poo) that are more frequent or more liquid. • You may also get bloating, cramping or pain. • Take your antidiarrhoeal medication as directed by your doctor. • Drink plenty of fluids (unless you are fluid restricted). • Eat and drink small amounts more often. • Avoid spicy foods, dairy products, high fibre foods, and coffee. • Ask your doctor or nurse for eviQ patient information - Diarrhoea during cancer treatment. • Tell your doctor or nurse immediately, or go to your nearest hospital Emergency Department if your diarrhoea is not controlled, you have 4 or more loose bowel motions per day, and if you feel dizzy or light-headed.
<p>Nerve damage (peripheral neuropathy)</p>	<ul style="list-style-type: none"> • You may notice a change in the sensations in your hands and feet, including: <ul style="list-style-type: none"> ◦ tingling or pins and needles ◦ numbness or loss of feeling ◦ pain. • You may find it difficult to do everyday activities, such as doing up buttons or picking up small objects. • Test water temperature with your elbow when bathing to avoid burns. • Use rubber gloves, pot holders and oven mitts in the kitchen. • Wear rubber shoes or boots when working in the garden or garage. • Keep rooms well lit and uncluttered. • Ask your doctor or nurse for eviQ patient information – Nerve problems during cancer treatment. • Tell your doctor or nurse if you get any of the symptoms listed above.

Mouth pain and soreness (mucositis)	<ul style="list-style-type: none"> • You may have: <ul style="list-style-type: none"> ◦ bleeding gums ◦ mouth ulcers ◦ a white coating on your tongue ◦ pain in the mouth or throat ◦ difficulty eating or swallowing. • Avoid spicy, acidic or crunchy foods and very hot or cold food and drinks. • Try bland and soft foods. • Brush your teeth gently with a soft toothbrush after each meal and at bedtime. If you normally floss continue to do so. • Rinse your mouth after you eat and brush your teeth, using either: <ul style="list-style-type: none"> ◦ 1/4 teaspoon of salt in 1 cup of warm water, or ◦ 1/4 teaspoon of bicarbonate of soda in 1 cup of warm water • Ask your doctor or nurse for eviQ patient information - Mouth problems during cancer treatment. • Tell your doctor or nurse if you get any of the symptoms listed above.
Skin rash	<ul style="list-style-type: none"> • You may get a red, bumpy rash and dry, itchy skin. • Moisturise your skin with a gentle non-perfumed moisturising cream like sorbolene or aqueous cream. • Do not scratch your skin. • Protect your skin from the sun by wearing sun-protective clothing, a wide-brimmed hat, sunglasses and sunscreen of SPF 50 or higher. • Talk to your doctor or nurse about other ways to manage your skin rash.
Joint and muscle pain and stiffness	<ul style="list-style-type: none"> • You may get muscle, joint or general body pain and stiffness. • Applying a heat pack to affected areas may help. • Talk to your doctor or nurse about other ways to manage these symptoms. You may need medication to help with any pain.

Late (onset weeks to months)

Low red blood cells (anaemia)	<ul style="list-style-type: none"> • You may feel dizzy, light-headed, tired and appear more pale than usual. • Tell your doctor or nurse if you have any of these signs or symptoms. You might need a blood transfusion. • Tell your doctor or nurse immediately, or go to the nearest hospital Emergency Department if you have any chest pain, trouble breathing, or feel like your heart is racing.
Hair loss (alopecia)	<ul style="list-style-type: none"> • Your hair may start to fall out from your head and body. • Hair loss usually starts 2 to 3 weeks after your first treatment. • You may become completely bald and your scalp might feel tender. • Use a gentle shampoo and a soft brush. • Take care with hair products like hairspray, hair dye, bleaches and perms. • Protect your scalp from the cold with a hat, scarf or wig. • Protect your scalp from the sun with a hat or sunscreen of SPF 50 or higher. • Moisturise your scalp to prevent itching. • Ask your doctor or nurse about the Look Good Feel Better program
Nail changes	<ul style="list-style-type: none"> • Your nails may: <ul style="list-style-type: none"> ◦ grow more slowly ◦ become darker ◦ develop ridges or white lines ◦ become brittle and flaky • In some cases, you may lose your nails completely. • Keep your nails clean and short. • Avoid things like biting your fingernails, getting a manicure, pedicure or false nails. • Wear gloves when you wash the dishes, work in the garden, or clean the house.

Delayed (onset months to years)

Menopausal symptoms

- You may get:
 - hot flushes or night sweats
 - mood changes
 - vaginal dryness
 - irregular or no periods.
- You may also:
 - have trouble sleeping
 - find sex painful or lose interest in sex
- These symptoms may go away after treatment, or the menopause may be permanent.
- If you have sex you should use contraception as there is still a risk of pregnancy. Talk to your doctor about what form of contraception is right for you.
- Talk to your doctor or nurse about ways to manage these symptoms.

General advice for people having cancer treatment

Chemotherapy safety

- Learn how to keep you and your family safe while you are having anticancer drugs.
- See our patient information sheet - [Chemotherapy safety at home](#).

Blood clot risk

- Cancer and anticancer drugs can increase the risk of a blood clot (thrombosis).
- Tell your doctor if you have a family history of blood clots.
- A blood clot can cause pain, redness, swelling in your arms or legs, shortness of breath or chest pain.
- If you have any of these symptoms go to your nearest hospital Emergency Department.

Medications and vaccinations

- Before you start treatment, tell your doctor about any medications you are taking, including vitamins or herbal supplements.
- Don't stop or start any medications during treatment without talking to your doctor and pharmacist first.
- Paracetamol is safe to take if you have a headache or other mild aches and pains. It is recommended that you avoid taking aspirin, ibuprofen and other anti-inflammatory type medications for pain while you are having treatment. However, if these medications have been prescribed by your doctor, do not stop taking them without speaking with your doctor.
- Vaccinations such as flu and tetanus vaccines are safe to receive while having treatment. Do not have any live vaccines during your treatment or for 6 months after it finishes. If you are unsure, check with your doctor before you have any vaccinations.
- People you live with should be fully vaccinated, including having live vaccines according to the current vaccination schedule. Extra care needs to be taken with hand washing and careful disposal of soiled nappies for infants who have recently received the rotavirus vaccine.

Other medical and dental treatment

- If you go to hospital or any other medical appointment (including dental appointments), always tell the person treating you that you are receiving anticancer drugs.
- Before you have any dental treatment, talk to your doctor.

Diet

- While you are receiving this treatment it is important that you try to maintain a healthy diet.
- Grapefruit and grapefruit juice can interact with your medication and should be avoided while you are on this treatment.
- Speak to your doctor or nurse about whether drinking alcohol is safe with your treatment.
- If you have any concerns about recent weight loss or weight gain or questions about your diet, ask to speak to a dietitian.

Fertility

- Some cancer treatments can reduce your fertility. This can make it difficult or impossible to get pregnant or father a child.
- Talk to your doctor or nurse before you start any treatment. Depending on your situation there may be fertility sparing options available to you and/or your partner, discuss these with your doctor or nurse.

Pregnancy and breastfeeding

- Some cancer treatments can be dangerous to unborn babies. Talk to your doctor or nurse if you think there is any chance that you could be pregnant.
- Do not try to get pregnant or father a child during this treatment. Contraception should be used during treatment and after stopping treatment. Ask your doctor or nurse about what type of contraception you should use.
- If you are planning pregnancy/fatherhood after completing this treatment, talk to your doctor. Some doctors advise waiting between 6 months and 2 years after treatment.
- Do not breastfeed if you are on this treatment, as anti-cancer medications can also pass into breast milk.

Sex life and sexuality

- The desire to have sex may decrease as a result of this treatment or its side effects.
- Your emotions and the way you feel about yourself may also be affected by this treatment.
- It may help to discuss your concerns with your partner and doctor or nurse.

Quitting smoking

- It is never too late to quit smoking. Quitting smoking is one of the best things you can do to help your treatment work better.
- There are many effective tools to improve your chances of quitting.
- Talk to your treating team for more information and referral to a smoking cessation support service.

Staying active

- Research shows that exercise, no matter how small, has many benefits for people during and after cancer treatment.
- Talk to your doctor before starting an exercise program. Your doctor can advise whether you need a modified exercise program.

For more information about cancer treatment, side effects and side effect management see our [Patient and carers](#) section.

Where to get more information

Telephone support

- Call Cancer Council on 13 11 20 for cancer information and support.

Breast cancer information

- Australasian Lymphology Association – lymphoedema.org.au
- Australasian Menopause Society – menopause.org.au
- Breast Cancer Network Australia – bcna.org.au
- National Breast Cancer Foundation – nbcf.org.au
- YWCA Encore breast cancer exercise program – ywcaencore.org.au

General cancer information and support

- Australian Rare Cancer (ARC) Portal – arcportal.org.au/
- Beyondblue – beyondblue.org.au
- Cancer Australia – canceraustralia.gov.au
- Cancer Council Australia – cancer.org.au
- Cancer Voices Australia – cancervoicesaustralia.org
- CanTeen – canteen.org.au
- Carers Australia – carersaustralia.com.au
- CHILL Cancer related hair loss – scalpcooling.org
- eviQ Cancer Treatments Online – eviQ.org.au
- LGBTQI+ People and Cancer - cancercouncil.com.au/cancer-information/lgbtqi
- Look Good Feel Better – lgfb.org.au
- Patient Information – patients.cancer.nsw.gov.au
- Radiation Oncology Targeting Cancer – targetingcancer.com.au
- Redkite – redkite.org.au
- Return Unwanted Medicines – returnmed.com.au
- Staying active during cancer treatment – patients.cancer.nsw.gov.au/coping-with-cancer/physical-wellbeing/staying-active

Quit smoking information and support

Quitting smoking is helpful even after you have been diagnosed with cancer. The following resources provide useful information and support to help you quit smoking. Talk to your treating team about any other questions you may have.

- Call Quitline on 13 QUIT (13 78 48)
- iCanQuit – iCanQuit.com.au
- Patient Information – patients.cancer.nsw.gov.au/coping-with-cancer/physical-wellbeing/quitting-smoking
- Quitnow – quitnow.gov.au

Additional notes:

This document is a guide only and cannot cover every possible situation. The health professionals caring for you should always consider your individual situation when making decisions about your care. Contact your cancer clinic staff or doctor if you have any questions or concerns about your treatment, or you are having problems coping with side effects. While eviQ endeavours to link to reliable sources that provide accurate information, eviQ and the Cancer Institute NSW do not endorse or accept responsibility for the accuracy, currency, reliability or correctness of the content of linked external information sources. Use of this document is subject to eviQ's disclaimer available at www.eviq.org.au

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