

Non small cell lung cancer adjuvant ciSplatin and pemetrexed

ID: 3802 v.2 Endorsed

Check for clinical trials in this patient group. Link to Australian Clinical Trials website

Link to Clinical practice guidelines for the treatment of lung cancer

The anticancer drug(s) in this protocol <u>may</u> 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 <u>eviQ Estimated Glomerular Filtration Rate (eGFR) calculator</u>.

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

2022

Click here



Related pages:

- Non small cell lung cancer adjuvant ciSplatin and vinORELBine
- Non small cell lung cancer adjuvant osimertinib

Treatment schedule - Overview

Cycle 1 to 4

Drug	Dose	Route	Day
Pemetrexed	500 mg/m ²	IV infusion	1
ciSplatin	75 mg/m^2	IV infusion	1

Frequency: 21 days

Cycles: 4 unless otherwise indicated

Notes:

NOT to be used for patients with squamous cell histology.

Drug status: All drugs in this protocol are on the PBS general schedule

Cost: ~ \$240 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 to 4

Day before chemotherapy		
Dexamethasone	4 mg (PO)	TWICE a day with or after food*
Day 1		
Netupitant	300 mg (PO)	60 minutes before chemotherapy (fixed dose preparation with palonosetron)
Palonosetron	0.5 mg (PO)	60 minutes before chemotherapy (fixed dose preparation with netupitant)
Dexamethasone	4 mg (PO)	TWICE a day with or after food*
Pemetrexed	500 mg/m ² (IV infusion)	in 100 mL sodium chloride 0.9% over 10 minutes given 30 minutes prior to cisplatin
ciSplatin	75 mg/m ² (IV infusion)	in 1000 mL sodium chloride 0.9% over 60 minutes
Day 2		
Dexamethasone	4 mg (PO)	TWICE a day with or after food*
Day 3 and 4		
Dexamethasone	8 mg (PO)	ONCE a day (or in divided doses) with or after food

*Dexamethasone premedication alternative dosing is 8 mg ONCE a day from day 1 as per reference committee consensus

Frequency:	21 days
Cycles:	4 unless otherwise indicated

Indications and patient population

Indications:

• Stage II or IIIA non squamous non small cell lung cancer following complete resection, in patients with performance status 0 or 1

Cautions/Exclusions:

- pre existing neuropathies Grade 2 or greater
- moderate/severe renal impairment (creatinine clearance less than 60 mL/min.)
- significant hearing impairment/tinnitus
- use with caution in patients with known EGFR mutations ¹

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

Premedication	Original pemetrexed trials included hydroxocobalamin and folic acid to commence 5 to 7 days prior to the first cycle of chemotherapy, however the PEMVITASTART (Singh et al 2019) trial has demonstrated that concurrent administration does not lead to increased haematological toxicity. It is the opinion of the reference committee that hydroxocobalamin and folic acid may be administered 5 to 7 days prior to, or simultaneously with, cycle 1 of pemetrexed based chemotherapy. Hydroxocobalamin (Vit B12) 1000 micrograms intramuscularly and repeat once every 3 cycles; Folic acid 500 micrograms PO once daily continuously until 21 days after the last dose of pemetrexed. Read more about PEMVITASTART Singh et al 2019
Emetogenicity HIGH	Suggested default antiemetics have been added to the treatment schedule, and may be substituted to reflect institutional policy. Ensure that patients also have sufficient antiemetics for breakthrough emesis: Metoclopramide 10 mg three times a day when necessary (maximum of 30 mg/24 hours, up to 5 days) OR Prochlorperazine 10 mg PO every 6 hours when necessary. Read more about preventing anti-cancer therapy induced nausea and vomiting
Hydration	Hydration helps to prevent cisplatin-induced nephrotoxicity. The default regimen is appropriate for patients with normal electrolytes, kidney function, fluid status etc. and should be adjusted according to individual requirements. Read more about cisplatin hydration regimens
Ototoxicity	Ototoxicity may occur with platinum-based therapy; patients should be monitored for signs and symptoms. Platinum compounds should be used with caution in patients with pre-existing conditions or risk factors. Ototoxicity may become more severe in patients being treated with other drugs with nephrotoxic potential e.g. aminoglycosides. An audiometry test should be performed if symptoms develop. Read more about ototoxicity - tinnitus and hearing loss
Peripheral neuropathy	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. Read more about peripheral neuropathy Link to chemotherapy-induced peripheral neuropathy screening tool
Growth factor support	G-CSF (short or long-acting) is available on the PBS for chemotherapy induced neutropenia depending on clinical indication and/or febrile neutropenia risk. Access the PBS website
Blood tests	FBC, EUC, eGFR, LFTs, calcium, magnesium and phosphate at baseline and prior to each treatment.
Hepatitis B screening and prophylaxis	Routine screening for HBsAg and anti-HBc is recommended prior to initiation of treatment. Prophylaxis should be determined according to individual institutional policy. Read more about hepatitis B screening and prophylaxis in cancer patients requiring cytotoxic and/or immunosuppressive therapy
Vaccinations	Live vaccines are contraindicated in cancer patients receiving immunosuppressive therapy and/or who have poorly controlled malignant disease. Refer to the recommended schedule of vaccination for immunocompromised patients, as outlined in the Australian Immunisation Handbook. Read more about COVID-19 vaccines and cancer.

Fertility, pregnancy and lactation	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.
	Read more about the effect of cancer treatment on fertility

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).

Haematological toxicity	
ANC x 10 ⁹ /L (pre-treatment blood te	st)
0.5 to less than 1.0	Delay treatment until recovery
less than 0.5	Delay treatment until recovery and consider reducing pemetrexed and cisplatin by 25% for subsequent cycles
Febrile neutropenia or previous delay for myelosuppression	Delay treatment until recovery and consider reducing pemetrexed and cisplatin by 25% for subsequent cycles
Prolonged recovery greater than two weeks delay or 3 rd delay for myelosuppression	Delay treatment until recovery and consider reducing pemetrexed and cisplatin by 50% for subsequent cycles or cease
Platelets x 10 ⁹ /L (pre-treatment bloc	od 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 pemetrexed and cisplatin by 25% for subsequent cycles

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

Renal impairment

eGFR ((CKI-EPI or MDRD) or eCrCl ((Cockcroft Gault)	(mL/min)	*

greater than or equal to 70

No dose modifications necessary

Renal impairment	
50 to less than 70	Reduce cisplatin by 25%
30 to less than 50	Reduce cisplatin and pemetrexed by 50%
less than 30	Withhold chemotherapy

* Each method has its limitations; refer to Nephrotoxicity associated with cisplatin for more information.

Hepatic impairment

No dose modifications necessary

Peripheral neuropathy	
Grade 2 which is present at the start of the next cycle	Reduce cisplatin by 25%; if persistent, reduce cisplatin by 50%
Grade 3 or Grade 4	Omit cisplatin

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 2 nd occurrence: Reduce pemetrexed by 25% 3 rd occurrence: Reduce pemetrexed by 50% 4 th occurrence: Omit pemetrexed
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 pemetrexed by 50% 2 nd occurrence: Omit pemetrexed

Diarrhoea	
Grade 2	Delay treatment until toxicity has resolved to Grade 1 or less and reduce dose for subsequent cycles as follows: 1 st occurrence: No dose reduction 2 nd occurrence: Reduce pemetrexed and cisplatin 25% 3 rd occurrence: Reduce pemetrexed and cisplatin by 50% 4 th occurrence: Omit pemetrexed and cisplatin
Grade 3 or Grade 4	Delay treatment until toxicity has resolved to Grade 1 or less and reduce doses for subsequent cycles as follows: 1 st occurrence: Reduce pemetrexed and cisplatin by 50% 2 nd occurrence: Omit pemetrexed and cisplatin

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

	Interaction	Clinical management	
Nephrotoxic drugs (e.g. aminoglycosides, amphotericin, contrast dye, frusemide, NSAIDs)	Additive nephrotoxicity	Avoid combination or monitor kidney function closely	
Ototoxic drugs (e.g. aminoglycosides, frusemide, NSAIDs)	Additive ototoxicity	Avoid combination or perform regular audiometric testing	
Neurotoxic drugs (e.g. vincristine, paclitaxel)	Additive neurotoxicity	Monitor closely for neuropathy if combination used	
Paclitaxel	Administration schedule may influence the development of myelosuppression	Minimise toxicity by administering paclitaxel first in regimens using the combination	
Carbamazepine, phenytoin, valproate	Decreased antiepileptic plasma levels	Monitor antiepileptic serum levels and seizure frequency for efficacy; adjust dosage as appropriate or select alternative antiepileptic (e.g. clonazepam, diazepam, lorazepam)	

Pemetrexed			
	Interaction	Clinical management	
NSAIDs (short acting e.g. ibuprofen, long acting e.g. piroxicam) and	Increased toxicity of pemetrexed possible due to reduced clearance	Avoid combination or monitor for increased pemetrexed toxicity (esp. myelosuppression, renal and gastrointestinal toxicities)	
Nephrotoxic drugs (e.g. aminoglycosides, amphotericin, contrast dye, frusemide, NSAIDs) and		Patients with mild to moderate kidney dysfunction should avoid short and long acting NSAIDs from 2 and 5 days respectively prior, until 2 days after, pemetrexed administration.	
Drugs secreted by the renal tubules (e.g. probenecid, penicillins etc.)			

NK-1 antagonist e.g. aprepitant, fosaprepitant, netupitant				
	Interaction			
Dexamethasone	Increased effects/toxicity of dexamethasone due to inhibition of its metabolism via CYP3A4	Reduce dose of antiemetic dexamethasone by approximately 50% when adding a NK-1 antagonist. For protocols that already recommend a NK- 1 antagonist, the dose reduction of antiemetic dexamethasone has already been taken into account. If dexamethasone is part of the chemotherapy protocol , dose reduction as per the product information is not routinely recommended in clinical practice and no additional dexamethasone is required for antiemetic cover.		
Warfarin	Reduced anticoagulant efficacy of warfarin due to increased clearance (aprepitant induces CYP2C9). *Note interaction only applicable to aprepitant/ fosaprepitant	INR should be monitored in the 2 week period, particularly at 7 to 10 days following the administration of aprepitant/ fosaprepitant		
Combined oral contraceptive	Reduced contraceptive efficacy due to increased clearance. *Note interaction only applicable to aprepitant/ fosaprepitant	Alternative non-hormonal methods should be used during and for 1 month after stopping aprepitant/ fosaprepitant		
CYP3A4 inducers (e.g. carbamazepine, phenytoin, phenobarbitone, rifampicin, St John's wort etc.)	Reduced efficacy of NK-1 antagonist possible due to increased clearance	Avoid combination or monitor for decreased antiemetic effect. Consider using an alternative antiemetic regimen		
CYP3A4 inhibitors (e.g. azole antifungals, clarithromycin, erythromycin, grapefruit juice, ritonavir etc.)	Increased toxicity of NK-1 antagonist possible due to reduced clearance	Avoid combination or monitor for increased adverse effects of NK-1 antagonist (e.g. headache, hiccups, constipation)		
Drugs metabolised by CYP3A4 (e.g. etoposide, imatinib, irinotecan, midazolam, paclitaxel, vinblastine, vincristine etc.)	Increased effects/toxicity of these drugs possible due to inhibition of CYP3A4 by NK-1 antagonist	Avoid combination or monitor for increased toxicity especially with orally administered drugs		

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: 4 hours

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 IV line(s).

Insert IV cannula or access TIVAD or CVAD.

Pre treatment medication

Verify premedication taken or administer as prescribed.

Verify antiemetics taken or administer as prescribed.

O Chemotherapy - Time out

Pemetrexed

- administer pemetrexed 30 minutes prior to cisplatin infusion
- via IV infusion over 10 minutes
- · may be administered concurrently with prehydration
- flush with ~ 50 mL of sodium chloride 0.9%
- continue with pre hydration fluids until administration of cisplatin.

Cisplatin

Commence prehydration for cisplatin:

- administer 10 mmol magnesium sulphate (MgSO₄) in 1000 mL sodium chloride 0.9% over 60 minutes
- followed by 200 mL of mannitol 20% over 15 minutes
- mannitol should be administered via a controlled infusion
- mannitol 10% may be used as per institutional policy; there is much variation in the use of mannitol and although there is no
 conclusive evidence that mannitol should be used, many sites have used it routinely without renal toxicity. The routine use of
 frusemide to increase urine flow is not recommended. Refer to your institutional guidelines and medical orders.
- ensure patient has passed urine prior to cisplatin administration as per institutional policy.

Administer cisplatin (irritant):

- via IV infusion over 60 minutes
- flush with 100 mL of sodium chloride 0.9%.

Post hydration:

• 1000 mL sodium chloride 0.9% over 60 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.

Pemetrexed premedication

- Premedications as prescribed and written instructions on how to take them:
 - folic acid
 - hydroxocobalamin (vitamin B12)
 - dexamethasone

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)		
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	
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	
Anorexia	Loss of appetite accompanied by decreased food intake. Read more about anorexia	
Fatigue	Read more about fatigue	
Diarrhoea	Read more about treatment induced diarrhoea	
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	
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	
Nephrotoxicity	Renal dysfunction resulting from damage to the glomeruli, tubules or renal vasculature.	
Hypomagnesaemia, hypokalaemia, hypocalcaemia	Abnormally low levels of magnesium, potassium and calcium in the blood.	
Ototoxicity	Tinnitus and hearing loss may occur due to damage in the inner ear. Tinnitus is usually reversible, while hearing loss is generally irreversible. Hearing loss is dose-related, cumulative and may be worse in those with pre-existing hearing problems. Read more about ototoxicity - tinnitus and hearing loss	

Late (onset weeks to months)	
Anaemia	Abnormally low levels of red blood cells (RBCs) or haemoglobin in the blood. Read more about anaemia
Alopecia - partial	Hair thinning and/or patchy hair loss. 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 and scalp cooling

Evidence

The evidence supporting this protocol is provided by a phase III multicentre Japanese randomised trial. The JIPANG study involving 804 patients compared cisplatin and pemetrexed with cisplatin and vinorelbine in patients with completely resected Stage II-IIIA nonsquamous NSCLC as postoperative adjuvant chemotherapy.¹

Between March 2012 and August 2016, 804 patients were randomised in a 1:1 fashion to receive pemetrexed (500 mg/m² day 1) and cisplatin (75 mg/m² day 1) or intravenous vinorelbine (25 mg/m² days 1 and 8) and cisplatin (80 mg/m² day 1) every 3 weeks for 4 cycles.

The primary end point was recurrence-free survival (RFS). The secondary endpoints were rate of treatment completion and incidence of adverse events.

Although this trial failed to demonstrate a statistically significant benefit in RFS in cisplatin/vinorelbine versus the cisplatin/pemetrexed group, cisplatin/pemetrexed had a similar efficacy to cisplatin/vinorelbine but better tolerability.

Efficacy

After a median follow up of 45.2 months, the primary endpoint was not met. The median RFS in the intention to treat population was 38.9 months in the cisplatin/pemetrexed group vs 37.3 months in the cisplatin/vinorelbine group (HR=0.98; 95% CI, 0.81 to 1.20; p=0.474).¹

The 3 year recurrence-free survival was 51.1% in the cisplatin/pemetrexed group (95% Cl, 45.8% to 56.0%) vs 50.2% (95% Cl, 45.0% to 55.2%) in the cisplatin/vinorelbine group.

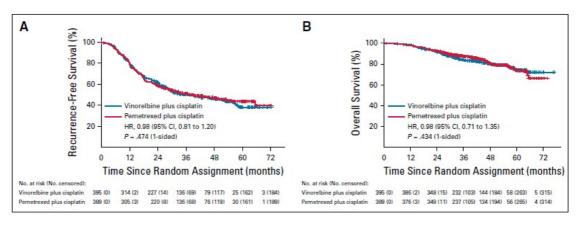
The 3 year OS was 87.2% in the cisplatin/pemetrexed group (95% CI, 83.8% to 90.2%) and 83.5% in the cisplatin/vinorelbine group (95% CI, 79.2% to 87.0%).

In the post-hoc subgroup analysis by EGFR mutation status, the RFS in the EGFR wildtype group was 65.2 months in the cisplatin/pemetrexed group (95% CI 33.1 to no upper limit) and 39.9 months in the cisplatin/vinorelbine group (HR=0.87; 95% CI, 0.69 to 1.09).

The RFS in the EGFR mutated group was 24.1 months in the cisplatin/pemetrexed group and 30.4 months in the cisplatin/vinorelbine group (HR=1.38; 95% CI, 0.95 to 1.99). Based on preliminary data, known EGFR mutated patients requiring adjuvant chemotherapy should preferably receive cisplatin/vinorelbine.

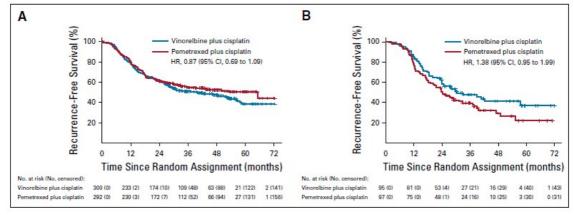
JIPANG ¹	Cisplatin/Vinorelbine	Cisplatin/Pemetrexed	
Median RFS - overall population	37.3 months	38.9 months	
Median RFS - EGFR mutated	30.4 months	24.1 months	
Median RFS - EGFR wildtype	39.9 months	65.2 months	
3 year RFS	50.2%	51.1%	
3 year OS	87.2%	83.5%	

Kaplan Meier curve for RFS and OS in eligible patients¹



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Toxicity

Cisplatin/pemetrexed was better tolerated as post-operative chemotherapy compared with cisplatin/vinorelbine. Grade 3-4 haematological toxicity was more common with cisplatin/vinorelbine than for cisplatin/pemetrexed; febrile neutropenia occurred in 11.6% vs 0.3%, neutropenia in 81.1% vs 22.7% and anaemia in 9.3% vs 2.8% respectively.¹

Adverse events in the safety population¹

No. of Patients (%)							
	Vinorelbine P	lus Cisplatin Gro	up (n = 395)	Pemetrexed P	lus Cisplatin Grou	up (n = 392)	
Adverse Event	All Grades	Grade 3	Grade 4	All Grades	Grade 3	Grade 4	Po
Any adverse events	396 (100)	126 (31.8)	227 (57.3)	391 (99.7)	165 (42.1)	20 (5.1)	< .01
Neutrophil count decreased	378 (95.5)	97 (24.5)	224 (56.6)	306 (78.3)	76 (19.4)	13 (3.3)	< .01
WBC count decreased	375 (94.7)	165 (41.7)	37 (9.3)	280 (71.6)	22 (5.6)	1 (0.3)	< .01
Anorexia	318 (80.3)	43 (10.9)	0	322 (82.1)	42 (10.7)	0	.94
Nausea	313 (79.0)	30 (7.6)	0	309 (78.8)	28 (7.1)	0	.81
Anemia	303 (76.5)	37 (9.3)	0	208 (53.2)	11 (2.8)	0	< .01
Constipation	299 (75.5)	8 (2.0)	0	262 (66.8)	5 (1.3)	0	.41
Hyponatremia	278 (70.2)	34 (8.6)	4 (1.0)	261 (66.8)	26 (6.6)	4 (1.0)	.33
Fatigue	226 (57.1)	18 (4.5)	0	192 (49.0)	9 (2.3)	0	.08
Hypokalemia	210 (53.0)	21 (5.3)	1 (0.3)	197 (50.4)	15 (3.8)	1 (0.3)	.33
ALT increased	177 (44.8)	9 (2.3)	0	165 (42.2)	7 (1.8)	0	.62
Creatinine increased	156 (39.5)	0	0	122 (31.2)	0	1 (0.3)	.32
Alopecia	122 (30.1)	-	-	50 (12.8)	-	-	-
Phlebitis	102 (25.8)	-	-	9 (2.3)		_	
Mucositis oral	81 (20.5)	1 (0.3)	0	48 (12.2)	0	0	.32
AST increased	77 (19.5)	5 (1.3)	0	87 (22.3)	1 (0.3)	1 (0.3)	.26
Fever	70 (17.7)	5 (1.3)	0	23 (5.9)	0	0	.03
Diarrhea	69 (17.4)	1 (0.3)	0	60 (15.3)	3 (0.8)	0	.31
Vomiting	67 (16.9)	4 (1.0)	0	82 (20.9)	3 (0.8)	0	.71
Weight loss	65 (16.4)	0	0	46 (11.7)	0	0	-
Platelet count decreased	47 (11.9)	5 (1.3)	0	46 (11.8)	6 (1.5)	0	.75
Febrile neutropenia	46 (11.6)	46 (11.6)	0	1 (0.3)	1 (0.3)	0	< .01
Blood bilirubin increased	42 (10.6)	0	0	40 (10.2)	1 (0.3)	0	.32
Rash	40 (10.1)	1 (0.3)	0	70 (17.9)	0	0	.32
Peripheral sensory neuropathy	34 (8.6)	0	0	12 (3.1)	0	0	
Infection	29 (7.3)	6 (1.5)	1 (0.3)	24 (6.1)	2 (0.5)	1 (0.3)	.21
Dyspnea	20 (5.1)	2 (0.5)	1 (0.3)	18 (4.6)	0	1 (0.3)	.32
Arthralgia	13 (3.3)	0	0	8 (2.0)	0	0	-
Myalgia	8 (2.0)	0	0	10 (2.6)	0	0	
Peripheral motor neuropathy	4 (1.0)	0	0	3 (0.8)	0	0	-
Thromboembolic event	3 (0.8)	2 (0.5)	0	8 (2.0)	5 (1.3)	1 (0.3)	.15
Pneumonitis	0	0	0	3 (0.8)	0	0	.32

NOTE. Data represent all reported toxicities.

*Grade 3-5 adverse events.

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References

 Kenmotsu, H., N. Yamamoto, T. Yamanaka, et al. 2020. "Randomized Phase III Study of Pemetrexed Plus Cisplatin Versus Vinorelbine Plus Cisplatin for Completely Resected Stage II to IIIA Nonsquamous Non-Small-Cell Lung Cancer." J Clin Oncol. 38(19):2187-2196.

History

Version 2

Summary of changes		
Protocol reviewed electronically by Medical Oncology Reference Committee. Related pages updated.		
Pemetrexed premedications reviewed by the respiratory reference committee. The following changes were made to all NSCLC protocols containing pemetrexed. Treatment schedule:		
alternative dexamethasone premedication dosing notes in treatment schedule detail		
 Clinical information: pemetrexed premedication updated based on the PEMVITASTART study (Singh et al 2019). Patient information: pemetrexed premedication updated to align with clinical information 		

Date	Summary of changes	
	Version number changed to V.2. Next review in 2 years.	

Version 1

Date	Summary of changes	
28/07/2020	Protocol approved electronically by Medical Oncology Reference Committee and published on site. Review 1	
	year.	

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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09 Aug 2023



Patient information - Lung cancer adjuvant - Cisplatin and pemetrexed

Patient's name:

Your treatment

The treatment schedule below explains how the drugs for this treatment are given.

Cisplatin a	nd pemetrexed		
This treatm	nent cycle is repeated every 21 days. You will have up to 4 cycles.		
Day	Treatment	How it is given	How long it takes
1	Pemetrexed (pem-a-trex-ed)	By drip into a vein	about 4 hours
	Cisplatin (<i>siss-plat-in</i>)		

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.

IMMEDIATELY go to your nearest hospital Emergency Department, or contact your doctor or nurse if you have any of the following at any time:	Emergency contact details Ask your doctor or nurse from your treating team who to contact if you have a problem
 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.

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.
- **Pemetrexed premedication:** you will need to have some medications to help reduce the side effects of this treatment. You will be given more information about this from your doctor. The premedication consists of the following tablets and an injection

Medication	Dose	When to take
Vitamin B12	1000 micrograms	As an injection before the first chemotherapy treatment then every 3 cycles and stops with the last cycle of chemotherapy
Folic acid	500 micrograms	Start before the first treatment and take one tablet daily until 3 weeks after the last chemotherapy treatment
Dexamethasone	4 mg	Your doctor will tell you how and when to take these tablets

Tell your doctor or nurse if you have not started your premedication or if you forget to take the dexamethasone tablets before 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 day	vs)
Nausea and vomiting	 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	 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)	 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: 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.
Low platelets (thrombocytopenia)	 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.
Mouth pain and soreness (mucositis)	 You may have: o 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: 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.

Appetite loss (anorexia)	 You may not feel like eating. Try to avoid drinking fluids at meal times. Try to eat small meals or snacks regularly throughout the day.
	• Try to eat food that is high in protein and calories.
	 If you are worried about how much food you can eat, or if you are losing weight, ask to speak to a dietitian.
Tiredness and lack of energy (fatigue)	• 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.
Diarrhoea	• 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.
Skin rash	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.
Nerve damage (peripheral neuropathy)	 You may notice a change in the sensations in your hands and feet, including: 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.
Kidney damage	This treatment can cause changes to how your kidneys work.
Nulley utiliage	 You will have blood tests to make sure your kidneys are working properly.
	• You may need to drink more fluids while you are having treatment. Your doctor or nurse will
	tell you if you need to do this.
	 Tell your doctor or nurse as soon as possible if you notice that your urine changes colour or you don't need to empty your bladder as often.

Low blood magnesium, potassium and calcium levels (hypomagnesaemia, hypokalaemia, hypocalcaemia)	 This may be found from your routine blood tests and treated by your doctor. If it is severe you may get: muscle cramps or twitches numbness or tingling in your fingers, toes or around your mouth constipation an irregular heartbeat sleepy, drowsy or confused Tell your doctor or nurse as soon as possible if you get any of the signs or symptoms listed above.
Hearing changes	You may get ringing in your ears or loss of hearing.
(ototoxicity)	You may have your hearing tested before and during your treatment.
	• Tell your doctor or nurse as soon as possible if you notice any changes to your hearing.
Late (onset weeks to month	is)
Late (onset weeks to month	 You may feel dizzy, light-headed, tired and appear more pale than usual.
Low red blood cells	 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
Low red blood cells	 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
Low red blood cells (anaemia)	 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.
Low red blood cells (anaemia)	 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. Your hair may become dry and may break easily. You may lose some of your hair. Use a gentle shampoo and a soft hairbrush.
Low red blood cells (anaemia)	 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. Your hair may become dry and may break easily. You may lose some of your hair. Use a gentle shampoo and a soft hairbrush. Take care with hair products like hairspray, hair dye, bleaches and perms.
Low red blood cells (anaemia)	 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. Your hair may become dry and may break easily. You may lose some of your hair. Use a gentle shampoo and a soft hairbrush. Take care with hair products like hairspray, hair dye, bleaches and perms. Protect your scalp from the cold with a hat or scarf.
Low red blood cells (anaemia)	 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. Your hair may become dry and may break easily. You may lose some of your hair. Use a gentle shampoo and a soft hairbrush. Take care with hair products like hairspray, hair dye, bleaches and perms.

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.
- Some anti-inflammatory medicines known as NSAIDs (e.g. ibuprofen, diclofenac) may interact with your treatment. They should be stopped at least five days before each treatment and not restarted until two days after each treatment. Speak to your doctor if you are taking these medicines. However, do not stop taking any prescribed medicines (including low dose aspirin) without first speaking to your doctor
- Paracetamol is safe to take if you have a headache or other mild aches and pains.
- 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.
- 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.

Risk of developing a second cancer

• Some anticancer treatments can increase your chance of developing a second cancer, this is rare. Your doctor will discuss with you the specific risks of your treatment.

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
- Call the Lung Foundation Australia on 1800 654 301

Lung cancer information

- Lung Foundation Australia lungfoundation.com.au
- Lungevity lungevity.org

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
- Carer Help carerhelp.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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