

Vinorelbine (NSCLC, mesothelioma)

Indication

First-line chemotherapy for non-small cell lung cancer (NSCLC) for patients unsuitable for platinum based combination chemotherapy.

(NICE CG121)

Second line chemotherapy for malignant pleural mesothelioma.

ICD-10 codes

Codes pre-fixed with C34, C45.

Regimen details

Day	Drug	Dose	Route
1, 8 and 15	Vinorelbine*	30 mg/m ² (max 60mg)	IV infusion

^{*} if the patient experiences pain and phlebitis following IV administration vinorelbine may be given orally as follows:

OR

Day	Drug	Dose	Route
1, 8 and 15	Vinorelbine	60 mg/m ² (max 120 mg) or 80 mg/m ² (max 160mg) *	PO

^{*} After the first 3 administrations at 60 mg/m² doses may be escalated to 80 mg/m²

Cycle frequency

21 days

Number of cycles

4 -6 cycles

Administration

Vinorelbine is administered in 50 mL sodium chloride 0.9% over 10 minutes, as per national guidance. Nurse to remain with patient throughout infusion.

Oral vinorelbine

Vinorelbine is available as 20mg, 30mg and 80mg capsules. The capsules should be swallowed whole with water and with or after food.

Equivalent doses:

IV vinorelbine	PO vinorelbine
30mg/m ²	80mg/m ²
25mg/m ²	60mg/m ²

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Oral doses should be prescribed as per the table below:

BSA (m ²)	Dose (60mg/m²)	Dose (80mg/m²)
0.95-1.04	60mg	80mg
1.05-1.14	70mg	90mg
1.15-1.24	70mg	100mg
1.25-1.34	80mg	100mg
1.35-1.44	80mg	110mg
1.45-1.54	90mg	120mg
1.55-1.64	100mg	130mg
1.65-1.74	100mg	140mg
1.75-1.84	110mg	140mg
1.85-1.94	110mg	150mg
≥1.95	120mg	160mg

Pre-medication

Antiemetics as per local guidelines.

Emetogenicity

This regimen has moderate - low emetic potential (IV doses) or moderate-high (PO doses).

Additional supportive medication

H₂ antagonist or proton pump inhibitor if required.

Laxatives if required.

Mouthwashes as per local policy.

Extravasation

IV vinorelbine – vesicant (Group 5)

Investigations – pre first cycle

Investigation	Validity period (or as per local practice)	
FBC	14 days	
U+E (including creatinine)	14 days	
LFTs	14 days	

Investigations – pre subsequent cycles

Investigation	Validity period (or as per local practice)	
FBC	96 hours	
U+E (including creatinine)	7 days	
LFTs	7 days	

In addition FBC is required on days 8 and 15

Standard limits for administration to go ahead

If blood results not within range, authorisation to administer must be given by prescriber/ consultant

Investigation	Limit
Neutrophils	≥1.5 x 10 ⁹ /L
Platelets	≥100 x 10 ⁹ /L
Creatinine Clearance (CrCl)	> 60 mL/min
Bilirubin	<1.5 x ULN
ALT/AST	<3 x ULN or < 5 x ULN in presence of liver metastases
Alkaline phosphatase	<2 x ULN

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Dose modifications

Haematological toxicity

Neutrophils (x 10 ⁹ /L)		Platelets(x 10 ⁹ /L)	Vinorelbine dose
≥1.5	and	≥100	100%
1.0-1.49	or	75-99	75%
<1.0	or	<75	Omit

• Renal impairment

No dose modifications necessary.

Hepatic impairment

If bilirubin > 1.5-3 x ULN and/or AST/ALT > 5-20 x ULN delay vinorelbine for 7 days and recheck LFTs. If toxicity persists beyond 3 weeks or bilirubin > 3 x ULN and/or AST/ALT > 20 x ULN discontinue treatment.

Other toxicities

If grade 3-4 constipation omit vinorelbine and consider switching to gemcitabine.

If grade 3-4 neuropathy discontinue treatment.

Adverse effects - for full details consult product literature/ reference texts

Serious side effects

Myelosuppression Neurotoxicity Peripheral neuropathy Infertility

Frequently occurring side effects

Myelosuppression Nausea and vomiting Mucositis, stomatitis Constipation

Other side effects

Alopecia Fatigue

Significant drug interactions – for full details consult product literature/ reference texts

Warfarin/coumarin anticoagulants: increased or fluctuating anticoagulant effects. Avoid if possible, consider switching patient to a low molecular weight heparin during treatment or if the patient continues taking an oral anticoagulant monitor the INR at least once a week and adjust dose accordingly.

Phenytoin: cisplatin and vinorelbine reduce absorption and efficacy of phenytoin, monitor levels and adjust dose as necessary.

Itraconazole: increased risk of neurotoxicity.

Additional comments

Nil

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References

- National Institute of Health and Clinical Excellence Guideline CG121. Lung Cancer. The diagnosis and treatment of lung cancer Accessed 29 October 2014 via www.nice.org.uk
- Summary of Product Characteristics Vinorelbine (Pierre fabre) accessed 29 October 2014 via www.medicines.org.uk
- Schiller JH, Harrington D, Belani CP, Langer C, Sandler A, Krook J et al. Comparison of four chemotherapy regimens for advanced Non-Small Cell Lung Cancer. New Engl J Med 2002; 346: Pg.92-8

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