

Gemcitabine for Malignant Pleural Mesothelioma

Indication

Previously treated malignant pleural mesothelioma (post platinum-pemetrexed)

Regimen details

Days 1 & 8:

Gemcitabine 1000mg/m² in 250ml 0.9% sodium chloride over 30 minutes

Cycle frequency

Every 3 weeks (21-day cycle)

Number of cycles

Continue until radiological or clinical disease progression, unacceptable toxicity, or patient choice

Administration

Do not reduce the infusion rate, increasing the infusion time leads to increased toxicity

Emetogenicity

Low emetogenicity

Investigations – pre first cycle

FBC, U&E, LFT, Calcium

Investigations –pre subsequent cycles

FBC, U&E, LFT, Calcium

Medical review

Standard limits for administration to go ahead

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

DAY 1

Neutrophils > 1.5 AND Plat>100	Proceed with full dose
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Neutrophils 1.0-1.5	Discuss with consultant
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Neutrophils < 1.0 AND/OR platelets < 100	Defer 1 week
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DAY 8

Neutrophils > 1.0 and/or platelets >100	Proceed with full dose
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Neutrophils < 1.0 and/or platelets <100	defer
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Non-haematological Toxicity

Modifications are not required normally. In exceptional cases treatment delay may be necessary until the toxicity has resolved. If this happens then a 25% reduction should be made for subsequent courses

Liver transaminases: Abnormalities of liver transaminases occur in up to two-thirds of patients but changes are not progressive and rarely cause problems

Dose modifications

- **Day 8 dose may be omitted** in the event of haematological toxicity.
- Consider 20–25% dose reductions for recurrent Grade ≥ 3 non-haematological toxicity or persistent myelosuppression.

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

Neutropenic sepsis & thrombocytopenia	Nausea & vomiting (moderate)
Diarrhoea	Rash
Alopecia (mild)	Mucositis
Radiosensitisation – do not give RT within 7-10 days of Gemcitabine	

References

Pinto C, Zucali PA, Pagano M, et al. Gemcitabine with or without ramucirumab as second-line treatment for malignant pleural mesothelioma (RAMES): A randomised, double-blind, placebo-controlled, phase 2 trial. *Lancet Oncology*. 2021;22(10):1438-1447

This protocol has been reviewed by Dr Ali consultant oncologist

RESPONSIBILITY FOR THIS PROTOCOL LIES WITH THE HEAD OF SERVICE

Date: June 2025

Review: June 2027

VERSION: 1
