

Temozolomide

Indication

Relapsed CNS lymphoma with palliative intent. (Note: This is an unlicensed indication).

Not recommended to be used with radiotherapy.

Funding must be approved prior to commencing treatment.

ICD-10 codes

Codes with a prefix C85.

Regimen details

Day	Drug	Dose	Route
1 to 5	Temozolomide	150 mg/m ² (cycle 1)	PO
		then	
		200mg/m ² (cycle 2 onwards)	

At the start of cycle 2, the dose is escalated to 200 mg/m² if:

- non-haematological toxicity (other than alopecia, nausea and vomiting) for cycle 1 is ≤ grade 2
- neutrophils $\geq 1.5 \times 10^9/L$
- platelets $\geq 100 \times 10^9 / L$.

Once escalated, the dose remains at 200 mg/m² for each subsequent cycle unless toxicity occurs.

For patients who have **not** had any previous chemotherapy, the dose of 200mg/m² may be used from cycle 1 onwards.

Patients are likely to be on concurrent steroid therapy at time of starting temozolomide treatment- seek consultant advice regarding dosing of steroid. Patients should be closely monitored for development of PCP infection.

Cycle frequency

28 days

Number of cycles

Until disease progression (usual maximum of 8 cycles)

Administration

Temozolomide hard capsules are available as 5mg, 20mg, 100mg, 140mg, 180mg, and 250mg capsules.

Capsules should be taken on an empty stomach, swallowed whole with a glass of water.

Capsules must **NOT** be opened or chewed.

If vomiting occurs after the dose is administered, a second dose should not be administered that day.

Pre-medication

5HT₃-antagonist 30 minutes prior to each temozolomide dose.

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Emetogenicity

This regimen has high emetogenic potential.

Additional supportive medication

Laxatives if required.

Antiviral and PCP prophylaxis as per local policy.

Extravasation

N/A

Investigations – pre first cycle

Investigation	Validity period	
FBC	14 days	
U+E (including creatinine)	14 days	
LFTs	14 days	

Investigations – pre subsequent cycles

Investigation	Validity period
FBC	96 hours
U+E (including creatinine)	7 days
LFTs	7 days

Standard limits for administration to go ahead

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

	0 /1	
Investigation	Limit	
Neutrophil count	$\geq 1.5 \times 10^9 / L$	
Platelet count	$\geq 100 \times 10^9 / L$	

Dose modifications

Haematological toxicity

Neutrophils		Platelets	Action
$\geq 1.5 \times 10^9 / L$	and	$\geq 100 \times 10^9 / L$	Continue
$1.0 - 1.5 \times 10^9 / L$	and	$\geq 100 \times 10^9 / L$	Discuss with consultant
$< 1.0 \times 10^9 / L$	or	< 100 x 10 ⁹ /L	Delay 1 week and consider reducing dose by 50mg/m ² /day

Temozolomide is to be discontinued if a dose of 100 mg/m²/day still results in unacceptable toxicity

Renal impairment

No modifications required.

• Hepatic impairment

No modifications required. Caution is recommended in patients with severe hepatic impairment.

Other toxicities

Toxicity	Definition	Dose adjustment
Any non-haematological (except alopecia, nausea, vomiting)	Grade 3	Reduce temozolomide by 50mg/m ² /day
	Grade 4	Discontinue treatment

Temozolomide should be discontinued if any \geq Grade 3 toxicity (except for alopecia, nausea, vomiting) recurs after dose reduction to 100mg/m²/day.

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

• Serious side effects

Myelosuppression
Thromboembolism
Pneumonitis / dyspnoea
Hypersensitivity and allergic reactions
Myopathy
Teratogenicity
Infertility

• Frequently occurring side effects

Nausea and vomiting
Fatigue
Anorexia, weight loss
Constipation or diarrhoea
Rash
Seizures, headache
Arthralgia/myalgia
Myelosuppression
Stomatitis/mucositis
Oedema

• Other side effects

Raised liver enzymes
Hearing impairment, tinnitus
Anxiety
Depression
Alopecia
Hyperglycaemia

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

Sodium valproate - may decrease clearance of temozolomide.

Additional comments

Contra-indicated in patients hypersensitive to dacarbazine (DTIC).

References

- Summary of Product Characteristics Temodal Capsules accessed 22 Feb 2018 via www.medicines.org.uk
- Mankino K et al. Salvage treatment with temozolomide in refractory or relapsed primary central nervous system lymphoma and assessment of the MGMT status. J Neurooncol (2012) 106:155–160
- Reni M et al. Temozolomide as salvage treatment in primary brain lymphomas. Br J Cancer. (2007) 96(6):864-7

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