

TEMOZOLOMIDE IRINOTECAN – local funding required

INDICATION (ICD10) C71.6

1. Recurrent and progressive SHH+ medulloblastoma, second line after PCV (unlicensed) PS 0, 1, 2

REGIMEN

Days 1 to 5 TEMOZOLOMIDE 150mg/m² orally once daily (1 hour before irinotecan)

Premedication: Atropine 250mcg subcutaneously 30 minutes prior to treatment IRINOTECAN 50mg/m² in 250ml sodium chloride 0.9% (or licensed dose

volume) IV infusion over 30 minutes

CYCLE FREQUENCY AND NUMBER OF CYCLES

Every 21 days for 6 cycles

ADMINISTRATION

Available as various strength capsules Take on an empty stomach

ANTI-EMETICS

Moderate risk days 1 to 5

CONCURRENT MEDICATION REQUIRED

Irinotecan	Ensure premedication atropine given 30 minutes prior to treatment. Patients who			
	experience delayed diarrhoea will require loperamide 2mg every 2 hours to			
	continue for 12 hours after the last loose stool. This high dose should be			
	discontinued after 48 hours			
	Consider antibiotic if indicated			

EXTRAVASATION AND TYPE OF LINE / FILTERS

Irinotecan - irritant

Peripheral line

INVESTIGATIONS

Blood results required before SACT administration FBC, U&E and LFTs every cycle Neutrophils x 10⁹/L ≥1.5 Platelets x 10⁹/L ≥100 Serum creatinine every cycle Baseline weight and every cycle

MAIN TOXICITES AND ADVERSE REACTIONS

Irinotecan	Acute cholinergic syndrome (including diarrhea and delayed diarrhoea,		
	abdominal pain, hypotension, dizziness, malaise, increased salivation). Drink		
	large volumes of fluid containing electrolytes and an appropriate antidiarrhoeal		
	therapy - loperamide 4mg initially then 2mg every 2 hours, continuing for 12		
	hours after the last liquid stool (maximum of 48 hours in total).		
Temozolomide	Myelosuppression, rare protracted aplastic picture can occur		
	Hepatic toxicity – may still occur several weeks after end of treatment		
	Renal impairment		

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INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS (not exhaustive list check SPC/BNF/Stockleys)

Irinotecan	Aprepitant and fosaprepitant increases exposure to irinotecan.
	Carbamazepine increases exposure to irinotecan, avoid.
	Enzalutamide, mitotane, phenobarbitone, phenytoin, primidone and
	rifampicin decreases exposure to irinotecan, avoid.

DOSE MODIFICATIONS

Dose level -1	Temozolomide dose 100mg/m²/day	Reduction for prior toxicity
Dose level 0	Temozolomide dose 150mg/m²/day	Cycle 1 dose

Haematological

Temozolomide

Neutrophils $<1.5x10^9$ /l and platelets $<100x10^9$ /l on day 21 then treatment should be delayed one week and then reduce by one dose level.

Non-haematological

Irinotecan

If patients suffer from severe diarrhoea, which required IV rehydration or neutropenic fever, consider reduction in subsequent cycles, discuss with SpR or Consultant.

Hepatic impairment

Irinotecan

Bilirubin 24-50micromol/L	give 50% dose
Bilirubin >51micromol/L	Clinical decision

Temozolomide

Stop temozolomide if there is a progressive rise in transaminases eg ALT >200 or rise in bilirubin.

Renal impairment

Temozolomide

Stop temozolomide if there is a significant rise in serum creatinine (more common in patients with pre-existing renal impairment).

REFERENCES

1. Grill, J., et al., Phase II study of irinotecan in combination with temozolomide (TEMIRI) in children with recurrent or refractory medulloblastoma: a joint ITCC and SIOPE brain tumor study. Neuro Oncol, 2013 15(9): p1236-43.

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