

# Flucytosine (5-FC) and Fluconazole Administration for HIV-related Cryptococcal Meningitis

Weight of Patient	Quarterly 6 Hour 5-FC Dosing (mg)	500mg Tablets
30 - 39 kg	500-1000-500-1000	1-2-1-2
40 - 49 kg	1000	2-2-2-2
50 - 59 kg	1000-1500-1000-1500	2-3-2-3
60 - 69 kg	1500	3-3-3-3
70 - 79 kg	1500-1200-1500-2000	3-4-3-4

## Schedule for minimum laboratory monitoring for 1 week AmB + 5-FC

Day of Treatment	Week 1 AmB Administration				
	1	3	4	5	7
Minimum laboratory monitoring	Potassium (K) Creatinine (Creat) Haemoglobin (HB)		K Creat HB		K Creat HB

If results are abnormal on day 7, repeat on day 10

**Dosing for the induction stage of treatment is 100mg/kg/day in 4 divided doses. Note that 5-FC level monitoring for HIV-associated cryptococcal meningitis (CCM) is not routinely required.**

### 5-FC dose interval adjustment in renal impairment

Creatinine Clearance ml/min	Individual dose (mg/kg)	Dose Interval (hours)
>40	25	6
20-40	25	12
10-20	25	24
<10	25	>24

Est. Creatinine Clearance = (140 - age) \* (weight in kg) / (72 \* serum Cr in mg/dL) [Multiply result by 0.85 for women]

### 5-FC dosing in case of neutropaenia

Platelets < 50,000 cells/mm <sup>3</sup> or Neutrophils < 750 cells/mm <sup>3</sup>	If grade III range* monitor closely + if worsens then halve the dose of flucytosine (50%).
Platelets < 25,000 cells/mm <sup>3</sup> or Neutrophils < 500 cells/mm <sup>3</sup>	Monitor closely and halve dose of flucytosine (50%).

\*Grade III Platelets: 25,000 ≤ 50,000 cells/mm<sup>3</sup>

\*Grade III Neutrophils: 400—599 cells/mm<sup>3</sup>

DAIDS AE Grading Table V2.1 July 17

## Fluconazole

Fluconazole is used for the consolidation and maintenance phases of cryptococcal meningitis treatment.

Fluconazole dosage for 2nd and 3rd line induction treatment of CCM: 1200mg daily in combination with either 5-FC or AmB for 2 weeks.

If concomitant use of sulfonylurea derivatives there is a risk of hypoglycaemia, so check glucose levels more often.

Category D risk in pregnancy:

FDA -Chronic, high doses fluconazole(400-800mg/day) may be associated with rare and distinct set of birth defects in infants whose mothers were treated with fluconazole during 1st trimester.



Disclaimer:

Recommendations for advice and general information only.