

ANTIFUNGAL PROPHYLAXIS

Primary prophylaxis

depends on underlying risk and treatment (see full [guidance](#))

Itraconazole Liquid

If high risk of IFI:

- Autologous HSCT for lymphoma
- ALL after induction
- AML
- Severe aplastic anaemia

Posaconazole*

If intolerant of itraconazole

Fluconazole

If having inpatient chemo but not at high risk of IFI including Autologous HSCT for myeloma

Low dose Ambisome IV

for ALL induction

<50kg 50mg 3 x week

≥50kg 100mg 3 x week

This dosing is for prophylaxis only.

Secondary Prophylaxis

Any patient who has had previous treatment for IFI (for 2 weeks or more) and is receiving further chemotherapy should have **Posaconazole***

INVASIVE FUNGAL INFECTION TREATMENT

Pyrexia and neutropenia $\leq 0.5 \times 10^9/L$
No response to antibiotics after 96 hours

Start empirical treatment: CASPOFUNGIN

(Ambisome** if drug interactions with caspofungin)

Investigations: Galactomannan and β -1,3 glucan testing on blood

YES

Are there CXR/ CT chest abnormalities consistent with invasive fungal infection (IFI)?

NO

VORICONAZOLE IV (check pre dose levels day 5-7)

Isavuconazole IV if patient intolerant of voriconazole

Ambisome** if patient on itraconazole or posaconazole prophylaxis

Consider sending BAL for Aspergillus PCR - Contact Microbiology

Stop empirical treatment and restart antifungal prophylaxis patient was prescribed previously

MONITOR RESPONSE

Responding to antifungal and clinically stable

Persisting fever and/or not improving

Step down:

IV Voriconazole → oral Voriconazole

IV Isavuconazole → oral Isavuconazole

IV Ambisome → seek advice

Seek ID/Micro advice

Consider Ambisome IV**

Other options;

- Posaconazole* (check levels) or Isavuconazole
- Caspofungin (if not given initially)

Dosing (assuming normal renal/hepatic function):

**Ambisome IV – 3 to 5mg/kg od (start at 3mg/kg) Give 1mg test dose before each new course.

Caspofungin IV – 70mg for 1 day then 50mg daily (70mg if >80kg)

Voriconazole IV – 6mg/kg bd for 1 day then 4mg/kg bd

Voriconazole PO – 400mg bd for 1 day then 200mg bd (if <40kg half doses)

Itraconazole liquid – 200mg bd

Fluconazole PO – 50 -100mg od

*Posaconazole – formulation must be stated on prescription

Posaconazole tablets PO – 300mg bd on day 1 then 300mg od (treatment and prophylaxis)

Posaconazole liquid PO – 200mg tds with meal/fatty food (qds if treatment dose)

Isavuconazole IV/PO – 200mg tds for 2 days then 200mg od

Interactions:

Antifungals have many interactions – always check patients other medicines and refer to BNF, SPC (www.medicines.org.uk) or consult pharmacist or specialist website - <http://www.fungalpharmacology.org/tool>

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