

PATIENT WITH COMPLICATED FUNGAL ENDOCARDITIS: A CASE REPORT

24ème Congrès EAHP
les 27, 28 et 29 mars 2019
à Barcelone

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4CPS-079 ATC code: J02

Objectives

Fungal endocarditis is the most serious form of infective endocarditis. It is associated with high morbidity and mortality. In 2016, the Infectious Diseases Society of America (IDSA) updated Clinical Practice Guideline for the Management of Candidiasis¹ that strengthens the use of echinocandins for candidiasis' initial therapy. We report here a case of a nosocomial fungal endocarditis treated with echinocandins in Intensive Care Unit.

Methods

A 53 year old woman was hospitalized for multiple traumas after a car accident. Her antiinfective treatment was collegially decided after multidisciplinary discussions. In addition, the local fongemia ecology is regularly followed since 2014 and pharmacists document each patient's treatment.



Results - Discussion

Epidemiology of Candidemia in the University Hospital of Nice (2014-2016)

27th of June 2018

Patient with no

medical history

Intensive Care

significant

admitted in

Unit

Others
24%

C. parapsilosis
16%

C. albicans
38%

Any resistance
to amphotericin
B, caspofungin,
voriconazole and
fluconazole

4th of July 2018

- Diagnosis of a nosocomial
 Candida albicans
 fungemia
- Introduction of a probabilistic treatment with caspofungin 70mg daily
- All intravenous devices were removed

C. albicans sensitivity to

antifungal drugs (E-test technique)		
03-07-2018		
Origin: blood culture <i>C. albica</i>		
Amphotericin B	0,19 (S)	
Caspofungin	0,094 (S)	
Voriconazole	0,004 (S)	
Fluconazole	0,125 (S)	

(2016): Clinical
Practice Guideline
for the Management
of Candidiasis

IDSA Guideline

11th of July 2018

- Documentation of endocarditis
- Increase of caspofungin daily dose to 140mg (surgical treatment refuted because of risk of bleeding and haemodynamic context of the patient)
- 6 positive fungal blood cultures under caspofungin treatment (C. albicans was susceptible)
- Continuation of caspofungin treatment until identification

Transition to fluconazole?
(C. albicans fluconazole-susceptibility consistent with our local ecology data)

14th of July 2018

- Positive additional blood cultures to a

 Candida glabrata with a caspofungin intermediate susceptibility
 - Caspofungin stopped and switched for Lipid
 Formulation AmB (LFAmB)
 225mg daily (the 2
 Candida strains were susceptible) and flucytosin
 3g x 4 daily
- Association continued for
 8 weeks after the first negative blood culture, 4 days after the switch to LFAmB.

C. glabrata and C. albicans sensitivity to antifungal drugs (E-test technique)

06-07-2018		
Origin: blood culture	C. glabrata	C. albicans
Amphotericin B	1 (S)	0,25 (S)
Caspofungin	0,125 (S)	0,094 (S)
Voriconazole	3 (R)	0,006 (S)
Fluconazole	12 (SDD)	0,38 (S)

Conclusion

❖ The patient's infection was successfully managed thanks to the **good collaboration** between physicians, infectious diseases specialists, microbiologists and pharmacists.

key element of an antimicrobial stewardship plan².



- Transition to fluconazole was considered in the light of *C.albicans* fluconazole-susceptibility consistent with our local ecology (100% of *C.albicans* strains susceptible to fluconazole).
 - keep in mind the **importance of documentation** isolates sensitivity, particularly with the increasing resistance of *Candida spp* to echinocandins^{2,3,4}, and adapting the treatment according to the **local fungal ecology.**