'I'm like a fungus; you can't get rid of me' or can you? An Audit of Candidaemia Management Over One Year in an Irish Tertiary Care University Hospital

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BACKGROUND

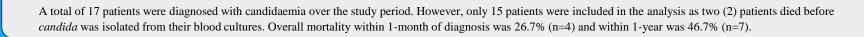
RESULTS

Yes No.

Candidaemia is the most common manifestation of invasive candidiasis1. Considering its associated morbidity and mortality, we conducted а retrospective audit of cases diagnosed with candidaemia over the previous twelve months at our institute. The aim of our study was compliance assess to with local and international candidaemia management guidelines and to ascertain the clinical outcomes for patients

METHODS

A retrospective medical record review was conducted for all patients diagnosed with candidaemia from September 2019 to September 2020 inclusive. Local hospital guidelines and international guidelines for the Management of Candidiasis were used as the audit standard².



Patient Demographics			Source (n)	Source	Comment (n)
Gender Male: 8 (53.3%), Female: 7 (46.7%)				Control, n (%)	
Age	Median (IQR): 67 (50-77)		Abdominal (7)	4 (57%)	IR intervention (3), surgical intervention (1),
Acquisition Route	Community: 3(20%), Hospital: 12 (80)%)			palliative (1), RIP (1), undrainable collection (1)
Candida Type	glabrata: 6 (40.0%), albicans: 7 (46.7	%), parapsilosis: 1 (6.7%),	IV-Line (6)	6 (100%)	IV-line removed (6)
<i>"</i>	mixed: 1 (6.7%)		Genitourinary (2)	1 (50%)	Catheter removed (1), no catheter (1)
7%	All patients were started on a agent within 48 hours, majori - Ambisome (1): utilised in the - Anidulafungin (1): used in a impairment - Fluconazole (2): patient had an empiric escalation in the s sepsis in one patient and in a the highly sensitive <i>Candida</i> of - Fluconazole - Anidulafungin	n appropriate antifungal ty caspofungin except: e critically-ill setting case of significant hepatic already been on same as etting of abdominal nother patient to treat	Transition 7% 6% 27% e Fluconazole • Ambisone • None	<u>Ар</u> 53%	-
	Up Cultures Every Day / ry Other Day (n=15) No follow-up cultures (1): patient was made palliative	within 1	Exam & Echocardiogr L week (n=15) No ophthalmological ex ECHO (2): 1 patient was palliated, 1 patient RIP before they were perfor	am /	Continue Treatment for 2 weeks after Negative Cultures & Resolution of Symptoms (n=15) 20% 20% 20% 20% 20% 20% 20% 20% 20%

Yes No

Yes No

CONCLUSIONS

Overall. we found that compliance with local and international standards in the management of candidaemia at our institute was optimal, with patients receiving most appropriate treatment and therapeutic interventions. Overall mortality associated with the diagnosis of candidaemia on longitudinal follow-up was high, underscoring the seriousness of this diagnosis. Further interventions to promote effective management of this important condition will continued to be implemented in our institute in collaboration with local clinical audit our department and re-audited.

REFERENCES

1. Quindós, G. Epidemiology of candidaemia and invasive candidiasis. A changing face. *Revista Iberoamericana de Micologia* vol. 31 42–48 (2014).

2. Pappas, P. G. *et al.* Clinical Practice Guideline for the Management of Candidiasis: 2016 Update by the Infectious Diseases Society of America. (2015) doi:10.1093/cid/civ933.