IDWeek 2020	Comparative Analysis Between Bacterial And Fungal Malignant Otitis Externa         Fatma Hammami, Makram Koubaa, Amal Chakroun, Fatma Smaoui, Khaoula Rekik, Emna Elleuch, Chakib Marrakchi, Mounir Ben Jemaa         Infectious Diseases Department, Hedi Chaker University Hospital, University of Sfax, Tunisia									Examplese Here the second sec		
koubaa_makram@ medecinesfax.org												
Background Malignant otitis externa is a fatal infection of the external ear and temporal bone. <i>Pseudomonas aeruginosa</i> is the most common causative organism, while fungi are a rare cause of malignant otitis externa. We aimed to compare the clinical, therapeutic and evolutionary features between bacterial and fungal malignant otitis externa.										The element is updated in the water that (2.5. kg (1.5. g) element) at the element at the second second at second second secon		
Methods We conducted a retrosp	ective study i	ncluding all	patients hospita	alized for malignant otitis ext	erna in the infe	ectious disease	es department	between 2000 and 2018.				
Results       Clinical symptoms: No significance difference was noted between BMO and FMO cases (Table 2)         The distribution of cases:       Bacterial malignant otitis externa (BMO): 54 cases: 65.9%								Physical examination signs: S canal was significantly more (p=0.02) (Table 3)	requent a	mong FMO c	ases	
<ul> <li>Fungal malignant of</li> <li>Demographic charact significantly older (p&lt;0)</li> </ul>	otitis externa teristics: Pati	(FMO): 28 ca ents with FM	ises: 34.1%		with bacterial and fungal malignant otitis externa Table 3: Comparison of physic					al examination signs between patients ngal malignant otitis externa		
Table 1: Comparison of demographic characteristics of patients with bacterial and fungal malignant otitis externa					вмо	FMO	p-value		вмо	FMO	p-value	
				Otalgia, n (%)	44 (81.5)	27 (96.4)	0.08	Tenderness to palpation of the mastoid bone, n (%)	21 (38.9)	18 (64.3)	0.029	
	вмо	FMO	p-value	Otorrhea , n (%)	36 (66.7)	21 (75)	0.4	Stenosis of the external	39 (72.2)	26 (92.9)	0.02	
Males gender, n (%)	31 (57.4)	14 (50)	0.5	Cephalalgia , n (%)	23 (42.6)	13 (46.4)	0.7	auditory canal , n (%)	55 (72.2)	20 (52.5)	0.02	
Mean age ± SD, years	61±10	70±9	< 0.001	Hearing loss, n (%)	22 (40.7)	6 (21.4)	0.8	Facial paralysis, n (%)	7 (13)	4 (14.3)	0.8	
Diabetes mellitus, n (%)	42 (77.8)	27 (96.4)	0.03	BMO: Bacterial malignant	BMO: Bacterial malignant otitis externa, FMO: Fungal malignant otitis externa,       BMO: Bacterial malignant otitis externa,         n: number, %: percentage       n: number, %: percentage						itis externa	
Topical corticosteroids use	3 (5.6)	8 (28.6)	0.006	n: number, %: percentage							as externa,	
BMO: Bacterial malignant otitis externa, FMO: Fungal malignant otitis externa, n: number, %: percentage, SD: standard deviation					<ul> <li>Complications: were significantly more frequent among FMO cases (42.9% vs 9.3%; p&lt; 0.001).</li> <li>Treatment duration: was sign cases (70[40-90] days vs 45[3:</li> </ul>						g FMO	

## Conclusion

Our study showed that FMO affected more frequently the elderly and diabetic patients, when compared with BMO. Regardless of the causative agent, the clinical presentation was similar. However, the outcome was poor among FMO cases with the occurrence of complications, requiring a longer duration of treatment.