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## Antimicrobial efficacy of Moringa oleifera leaf and seed extract against Candida species - An invitro study

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**NEED FOR NEW ANTIFUNGALS** 

15 to 71% of denture wearers 80 to 95% of HIV-infected individuals

Organization

World Health



Candida infection is a significant concern for human health in vulnerable populations due to the emergence of new resistance mechanisms in the microorganisms.

Mor oleij	ringa fera Antioxidant, Antibacterial ac positive bacteri	tree anti-hyperglycemic properties tivity against both Gram a.		AIM To comp effective seed extr and <i>C. gi</i>	<b><u>AIM</u></b> To compare the antimicrobial effectiveness of <i>Moringa</i> leaf and seed extracts against <i>C.albicans</i> and <i>C. glabrata</i> .	
MATERIALS AND METHODS						
Culture of Candida		Isolation of Candida albicans and Candida glabrata Prepara aqueou ethanol M.oleife and see		paration of eous and anolic extract o <i>leifera</i> leaves seeds	of Well diffusion method	
<b>RESULTS:</b> Efficacy against <i>Candida albicans</i>						
S.N o	Extract	Mean Zone (m Aqueous (Aq)	of inhibition m) Ethanolic (Et)	P value		
1	M.oleifera seed	13	22	0.0001		
2	M.oleifera leaf	14	19	0.018	<b>2. AQ 2. Et</b>	
3	Positive control (1% clotrimazole)	29			And a control of the second of	
4	Negative control (saline)	8				
Efficacy against <i>Candida glabrata</i>						
S. No	Extract	Mean Zone of inhibition (mm)		P value		
		Aqueous (Aq)	Ethanolic (Et)			
1	M.oleifera seed	14.3	21.3	0.004		
2	M.oleifera leaf	13	20	0.001		
3	Positive control (1% clotrimazole)	28				
Discussion M. oleifera seeds M. oleifera seeds M. oleifera seeds Ethanolic extract of Moringa oleifera seeds Ethanolic extract of Molice apoptosis Ethanolic extract of Molice apoptosis Induce apoptosis 1) Increase cell membrane permeability Ethanolic extract of Moleifera seeds Increase cell membrane permeability						

Evaluation of Antifungal Activity of Moringa oleifera Seeds on Oral Candida Isolated from Type 2 Diabetic and Nondiabetic Complete Denture Wearers

Moringa seed coat extract > effective than seed endosperm





## highest antifungal activity against C. albicans and C.glabrata