

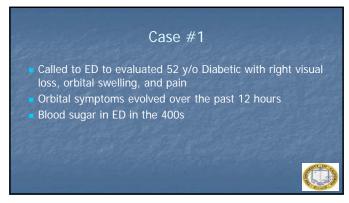




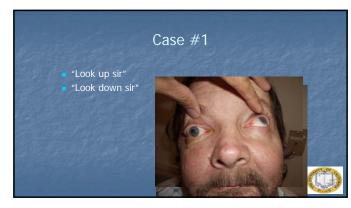


Goals Review clinical presentations of the common variants of fungal disease of the paranasal sinuses Identify imaging characteristics associated with fungal sinus disease Discuss treatment approaches for fungal sinus disease

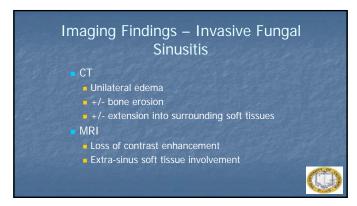














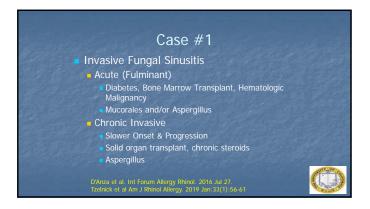














Impact of early detection of acute invasive fungal rhinosinusitis in immunocompromised patients

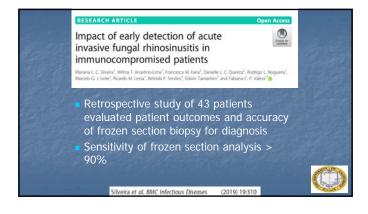
Mutana L. C. Shena', Wilma T. Anatimo Lima', Fornorca M. Faria', Opinide L. C. Opena', Rodrigo L. Noguera', Murcolo G. J. Lene', Roardo M. Lesa', Belnala P. Smoke', Edwin Tamashro' and Fabana C. P. Valen''

Retrospective study of 43 patients evaluated patient outcomes and accuracy of frozen section biopsy for diagnosis

Mortality 30%

Improved survival with higher neutrophil count and disease limited to turbinates

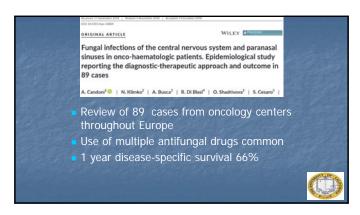
Silveira et al. BMC Infectious Diseases (2019) 19:310

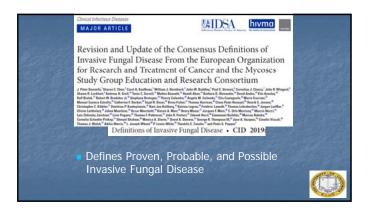














The role of galactomannan Aspergillus antigen in diagnosing acute invasive fungal sinusitis

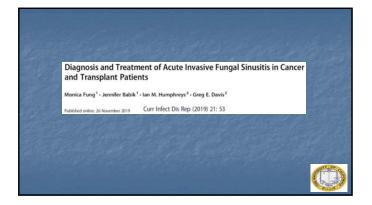
c. Claire Mulancon, MD¹, Janoter Linday, BA¹, Congary B. Basel, MS¹ and John D. Clinger, MD¹

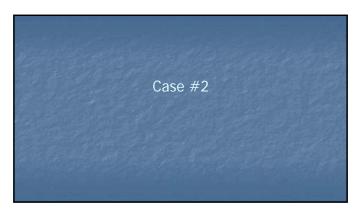
International Forum of Allergy & Ethinology, Vol. 9, No. 1, January 2019

Evaluation comparing galactomannan to pathology results in patients with acute invasive fungal (Aspergillus) sinusitis

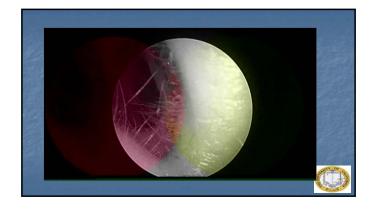
Serum galactomannan test is specific (100%), but not sensitive (44%)

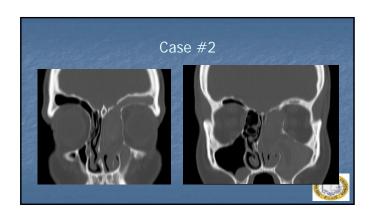




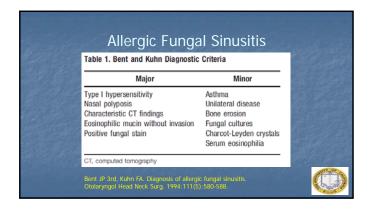


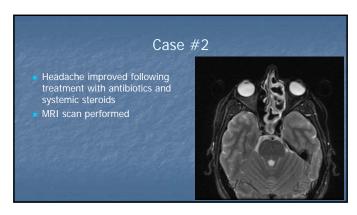
Case #2 21 y/o woman with left-sided diplopia, proptosis, nasal congestion and headache Diplopia, proptosis & congestion began 3 months ago Severe headache for past week Polyps in the left nasal cavity on anterior rhinoscopy

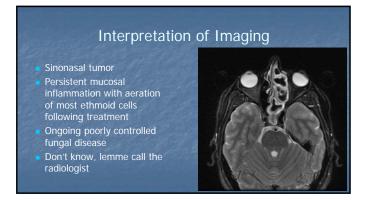








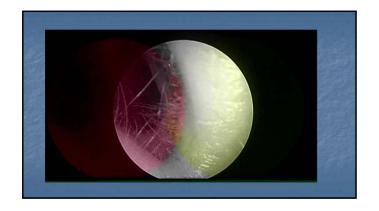


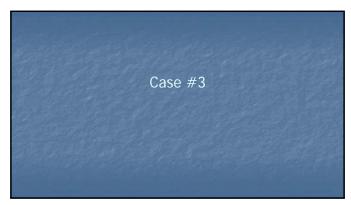


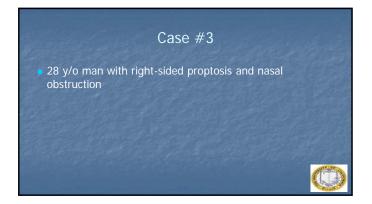


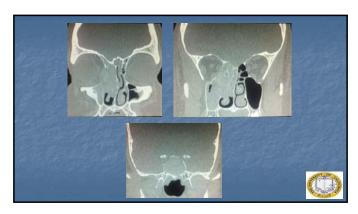


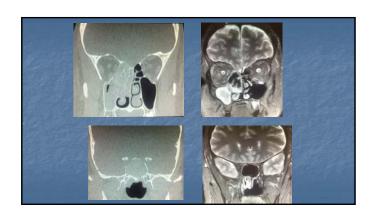




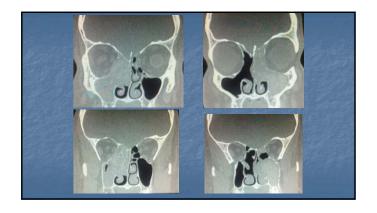


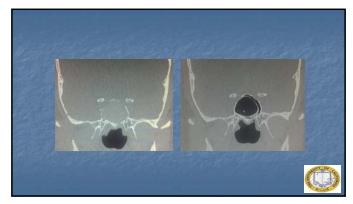




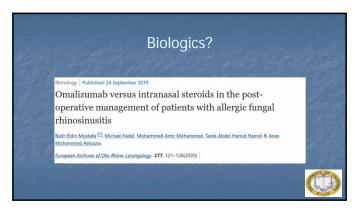




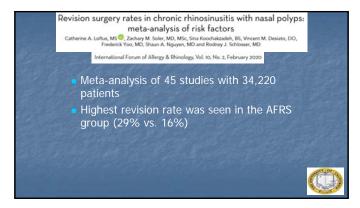


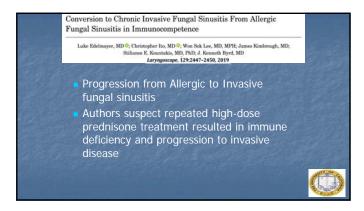






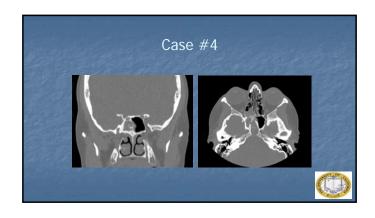








Case #4 68 y/o woman referred for "sinus evaluation" for incidental finding on head CT No nasal congestion, facial pressure, nasal drainage, or change in smell

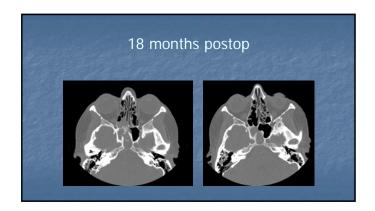


Fungus Ball (Mycetoma) Hyperdensity within unilateral sinus disease Predominately Maxillary & Sphenoid Often incidental finding – Treat or Observe? Symptomatic Bone erosion Patient considerations & preference

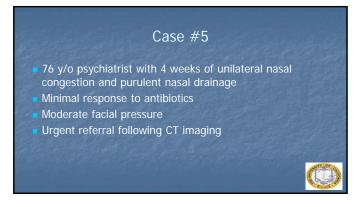


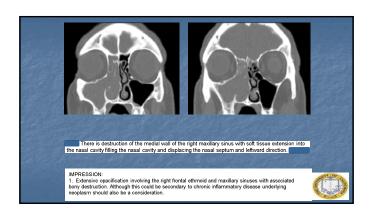


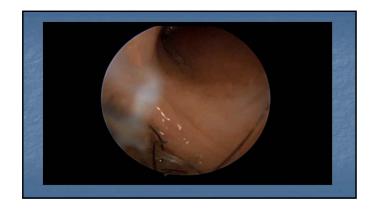


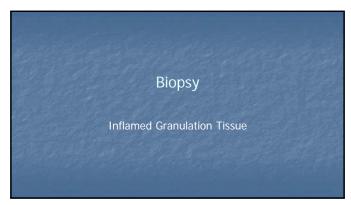


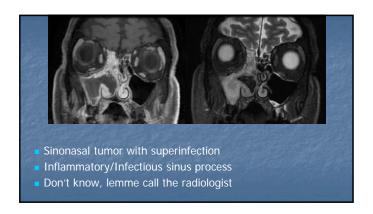


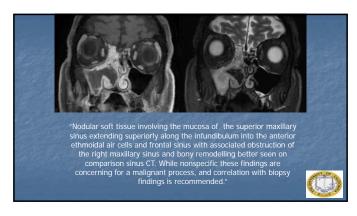


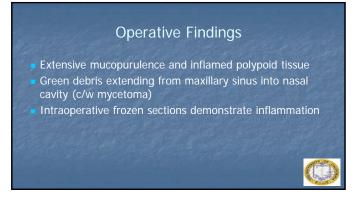












Pathology Sinonasal parenchyma with granulation tissue and acute and chronic inflammation Fungal balls present; see comment Minute fragments of bones with no significant pathologic abnormality Flow Cytometry with no evidence of lymphoproliferative disorder

