

# Fungal Sinusitis

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## History

3 year old female being treated for leukemia presenting with facial cellulitis.

## Diagnosis

Fungal sinusitis

## Discussion

Acute invasive fungal sinusitis is a rapidly progressing infection seen predominantly in immunocompromised patients and patients with poorly controlled diabetes, but rarely in healthy individuals. It is the most lethal form of fungal sinusitis, with a reported mortality of 50%–80%. Noncontrast CT demonstrates hypoattenuating mucosal thickening or an area of soft-tissue attenuation within the lumen of the involved paranasal sinus and/or nasal cavity. There is a predilection for unilateral involvement of the ethmoid and sphenoid sinuses. Aggressive bone destruction of the sinus walls occurs rapidly with intracranial and intraorbital extension of the inflammation.

## Findings

CT-Postcontrast axial images of the face with bone and standard windowing algorithms demonstrate opacification of the maxillary sinuses and destruction of the posterolateral wall of the right maxillary sinus.

## Reference

Aribandi M, McCoy V, Bazan C. Imaging Features of Invasive and Noninvasive Fungal Sinusitis: A Review. RadioGraphics, Sep 2007; 27: 1283-1296.

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