

CAUSES OF FACE AND SINUS SYMPTOMS

Cause	Clinical	Imaging Findings	Collected
	features		Cases
Sinus inflammation	Nasal congestion, nose/throat drainage, headaches, cough, difficulty breathing.	Opacified sinus +/- frothy secretions or an air-fluid level; mucus membrane thickening; boney wall thickening with chronic sinusitis.	11
Seasonal allergies	As sinus inflammation, with the addition of itchy, watery eyes and sneezing.	Nasal polyps and features of sinus inflammation.	
Sinus tumor	As sinus inflammation (because of a blocked sinus).	Mass obstructing the draining meatus of a paranasal sinus; fluid/inflammatory debris within the sinus.	2
Tic douloureux	Sudden, severe, stabbing, sharp, shooting pain on one side of the face (usually the lower face), often triggered by chewing, speaking or brushing the teeth.	Arterial vascular loop (usually superior cerebellar artery) in the root exit zone of CN V versus cerebello-pontine angle mass, multiple sclerosis plaque, or schwanomma of CN V.	
Dental disease	History of recent dental visit or bad dentition, toothache.	Caries; bone loss adjacent to the tooth root (or prior location of tooth root after tooth removal), adjacent sinus disease.	
TMJ dysfunction	TMJ joint clicking, locking or pain especially associated with eating.	Displaced, nonreducing disc followed by joint space narrowing, erosion, osteophyte formation, and subchondral cyst formation.	2
Temporal arteritis	Headache and/or scalp tenderness; pain with chewing; unilateral vision loss, fatigue. Elevated ESR, c-reactive protein.	"Dark halo" on color duplex ultrasonography, wall thickening and enhancement of the temporal artery on MRI/MRA.	
Trauma	History of injury.	Fracture, secondary opacification of an air-filled sinus, hematoma, abnormal air collection (e.g. within the orbit).	2

REFERENCES

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