

University of Baghdad

College Name	Dentistry college		
Department	Oral and maxillofacial surgery		
Full Name as written in Passport	Zainab Mahmood Al-Bahrani		
e-mail	Zainab_albahrany77@yahoo.com		
Career	<input checked="" type="radio"/> Assistant Lecturer	<input type="radio"/> Lecturer	<input type="radio"/> Assistant Professor
	<input type="radio"/> Professor		
	Master <input checked="" type="radio"/>	PhD <input type="radio"/>	
Thesis Title	Comparison Between High- Resolution Ultrasonography and Conventional Radiography in the Diagnosis of Nasal Bone Fractures		
Year	2008-2010		
Abstract	<p>Objectives to describe the diagnostic findings of ultrasonography in nasal bones fractures and to determine the validity of classical clinical practice assisted by radiography in the diagnosis of nasal bone fracture and compared it to the value of ultrasonography. A total sample of 53 patients (11 females and 42 males) at age range (14-40) years, with a differential diagnosis of nasal fracture based on history of nasal trauma and physical signs and symptoms of nasal bone fracture. All subjects had a true lateral soft tissue profile view of the face and high resolution ultrasonography in addition 8 patients had an occipitomental view based on physician request. The radiographs and ultrasound images of each subjects were analyzed and reports were recorded as either “positive” or “negative” according to the existence of nasal bone fracture with other details about the fracture if present (number of the fracture lines detected, the type of the fracture, its location and assessment of the soft tissue swelling and hematoma). The results were analyzed by various statistical testing methods (for sensitivity, specificity, positive and negative predictive value, and accuracy). The sensitivity to established clinical diagnosis (based on crepitation and mobility) in diagnosis of nasal bone fracture was 76.6% (23.4% false – ve rate). This figure is increased to 89.4% (10.6% false – ve rate) when clinical decision is aided by radiography. Such a practice however is associated with low specificity (33.3%). Using ultrasonography will increase both sensitivity and specificity to 100%. The conclusion of this study is the ultrasonography in diagnosis of nasal bone fracture is superior to radiography and it is recommended to shift the classical clinical approach from radiography to ultrasonography in this context.</p>		