

# Significance of Soft Tissues in Roentgenographic Diagnosis of Head and Neck Trauma

John H. Harris, Jr., MD\*  
Carlisle, Pennsylvania

The roentgenographic changes occurring with soft tissue injuries that accompany trauma may provide a clue to skeletal trauma, especially head and neck trauma. This paper emphasizes the value of including horizontal beam, brow-up lateral examinations of the skull and face in the roentgenographic evaluation; the indications and value of laminography in the evaluation of traumatic lesions about the orbits, and the diagnostic significance and therapeutic implications of the soft tissue component of common injuries of the mandible and of occult injuries of the cervical spine.

## INTRODUCTION

Soft tissue abnormalities are an integral part of trauma. The roentgenographic changes produced by soft tissue injury, commonly overlooked or ignored, are frequently the most striking radiographic signs of trauma and, occasionally, may be the only evidence of significant skeletal injury seen on routine examination.

The roentgenographic evaluation

of patients sustaining head and neck trauma requires that the radiographic examination include projections that are necessary to demonstrate soft tissue abnormalities. The examiner must have a thorough knowledge of regional anatomy and make a detailed examination of the radiographs, paying particular attention to the soft tissue shadows.

## Examination

The routine radiographic examination of the skull should be made, whenever possible, with the patient erect. If the patient's condition requires that he be examined while supine, a horizontal beam, brow-up, lateral radiograph of the skull and face must be included in order to detect the presence of an air-fluid level in either the sphenoidal or maxillary sinuses.

Laminograms of the face may be necessary to either detect, or confirm the presence of a blow-out fracture of the floor of the orbit (Figure 1). The views may be made from the anteroposterior (AP) position with the patient supine,<sup>1</sup> or using the Waters projection (PA) with the patient prone.

Soft tissue abnormalities of the cervical spine are best visualized with the patient in the neutral, flexed, and extended lateral positions. The lateral projections should not be attempted before excluding the possibility of unstable fracture or dislocation, because of the routine and oblique views.

The soft tissues of the pharynx are particularly valuable indicators of skeletal trauma. In order to evaluate these structures adequately, radiographic technique must be ideal. With infants and small children the radiographic exposure must be timed to coincide with maximal inspiration so that the prevertebral soft tissues, which are normally less than 1 cm in thickness at this age, do not produce a falsely widened prevertebral shadow simulating a hematoma, abscess, or mass (Figure 2).

\*Radiologist, Carlisle Hospital, Carlisle, Pennsylvania.

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Address for reprints: John H. Harris, Jr., MD, Harris, Katz & Associates, Radiology, Carlisle Hospital, Carlisle, Pennsylvania 17013.

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