

Extractions, CBCT Scans, and the Standard of Care for Preventing Injuries

Prepared by: Dr. Hugo C. Campos, DMD, DDS, MS

EDIC CLINICAL DENTISTRY ADVISOR | 2023

GENERAL CONSIDERATIONS

- Thorough preoperative evaluation
- Review patient's medical history
- Radiographic evaluation, including CBCT if indicated
- Adequate review of possible risks and complications with consent
- Review of pertinent anatomic structures
- Careful extraction (simple extraction) or incision design and flap management (surgical extraction)
- Considerations for adequate bone manipulation with thorough irrigation
- Gentle curettage of the socket
- Bone graft for socket preservation if necessary
- Careful suturing if necessary
- Take additional radiographic images/CBCT if possible complication is suspected
- Detailed postop instructions
- Postop antibiotic therapy if necessary
- Follow up

COMMON COMPLICATIONS AFTER EXTRACTION OF TEETH

- Hemorrhage
- Infection
- Edema
- Trismus
- Tooth/jaw fracture
- Alveolar osteitis
- Ecchymosis
- Tooth displacement into the adjacent anatomical spaces
- Oroantral communication
- Nerve damage

Extractions, CBCT Scans, and the Standard of Care for Preventing Injuries

Prepared by: Dr. Hugo C. Campos, DMD, DDS, MS

EDIC CLINICAL DENTISTRY ADVISOR | 2023

RISK FACTORS ASSOCIATED WITH EXTRACTIONS OF MANDIBULAR THIRD MOLARS

- Age
- Depth of impaction of mandibular third molar
- Mesially/horizontally inclined molars
- Darkening of the roots along the IAN canal
- Interruption of the cortices of the IAN canal
- Curvature of the IAN canal

RISK FACTORS ASSOCIATED WITH EXTRACTIONS OF MAXILLARY THIRD MOLARS

- Age
- Depth of impaction of maxillary third molar
- Position of the third molar and adjacent second molar
- Proximity of the roots of the third molars to the floor of the maxillary sinus

RISK FACTORS ASSOCIATED WITH EXTRACTIONS OF MAXILLARY MESIODENS

- Age
- Depth of impaction of maxillary mesiodens
- Position of the mesiodens to adjacent tooth/teeth
- Proximity of the mesiodens to the nasopalatine duct/incisive foramen
- Proximity of the mesiodens to the floor of the nasal cavity

USE OF CBCT TO EVALUATE TEETH TO BE EXTRACTED

- Not indicated as a routine method
- Recommended when 2D imaging cannot provide important information that could compromise the extraction of tooth/teeth
- High resolution CBCT when teeth are adjacent to floor of the maxillary sinus, nasopalatine duct, or IAN canal
- When possible complications are suspected after the surgery