

# Potential Risks and Prevention in Implant Dentistry

Prepared by: Daniel Oreadi, DMD

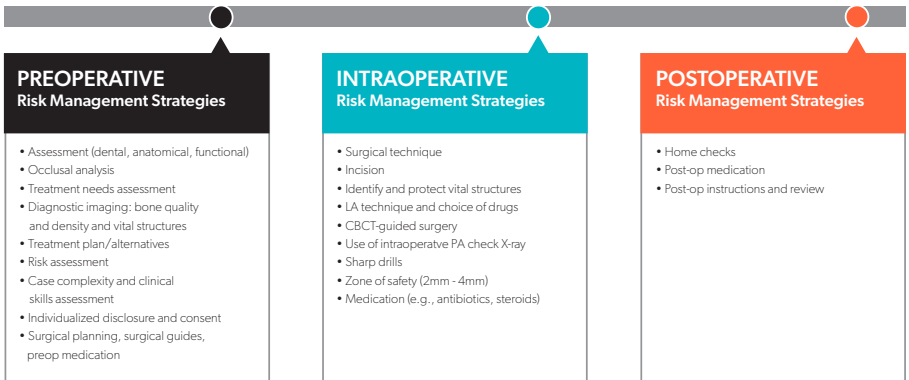
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## GENERAL CONSIDERATIONS

- Thorough preoperative evaluation
- Review patient's expectations
- Proper treatment planning including 3D imaging when indicated
- Adequate review of possible risks and complications with consent
- Review of pertinent anatomic structures and their protection
- Careful incision design and flap management
- Considerations for adequate bone manipulation with thorough irrigation
- Careful suturing
- Detailed postop instructions
- Postop antibiotic therapy
- Follow up

## RISKS FACTORS ASSOCIATED WITH POTENTIAL IAN INJURY

- Root proximity to the canal
- Darkening of the roots along the canal
- Deflection of the IAN canal
- Thickening of the lamina dura along the canal
- Narrowing of the canal at level of root apices



The Preoperative, Intraoperative, and Postoperative risk management strategies and protocols for implant placement in the mandible.

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## PREVENTION/RISK MITIGATION STRATEGIES

- Careful preoperative planning
- Detailed consent with thorough discussion of risks
- Obtain 3D imaging when increased risk
- PA or Panorex intraoperatively after initial preparation
- Thorough irrigation
- Antibiotic therapy either during or after each case

## INTRAOPERATIVE RISKS

- Bleeding
- Implant loss (deep spaces, sinus, nasal cavity, airway, esophagus)
- Nerve injury (witnessed)
- Damage to adjacent teeth
- Sinus perforation
- Soft tissue injury to lips, mucosa, FOM

## POSTOPERATIVE RISKS

- Early
  - Infection
  - Severe Swelling
  - Hematoma
  - Numbness (temporary/permanent)
  - Implant loss
  - Osteonecrosis
- Delayed
  - Infection (osteomyelitis)
  - Bone necrosis
  - Failed osseointegration
  - Peri-implantitis
  - Inability to restore

## REPORTED INCIDENCE OF LIABILITY AFTER IMPLANT PLACEMENT

Since 2010, 12 percent of claims against EDIC insureds have involved allegations of negligent implants, and EDIC has paid more than \$5 million in indemnity.



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*Current information as of print June 2022. The information contained is only accurate to the day of publication and could change in the future. For more information on EDIC Risk Management, please call 800-898-3342 or visit [www.edic.com](http://www.edic.com).*