



Dr Asma Khan is a tenured Professor at University of Texas Health Science Center, San Antonio. She received her dental degree from India, her PhD in Neuroscience from University of Maryland, and her Certificate in Endodontics from UT Health San Antonio. She completed a Fellowship in Clinical Research at the National Institutes of Health, Bethesda and a Post-Doctoral Fellowship on Neuro-Immune interactions. She currently serves on the Council of Scientific Affairs of the American Association of Endodontics and is a member of the Scientific Advisory Board for the Journal of Endodontics. Her research interest includes the use of AI to improve clinical practice and the development of new diagnostics and analgesics.

Inflammation and the Immune response

Lecture description: This presentation reviews the pulpal and periapical response to a pathogens. It is designed to improve the learners understanding of the link between the biological processes and clinical diagnosis.

Learning Objectives: At the end of the session the learner should be able to:

1. Understand the innate and adaptive immune response
2. Understand how the immune response is linked to signs and symptoms of disease
3. Understand the effects of different inflammatory mediators

Pain Mechanisms and management

Lecture description: This presentation reviews the fundamental mechanisms of odontogenic pain. It is designed to improve the diagnosis of acute orofacial pain. Evidence-based approaches on the use of local anesthetic and new analgesics for managing pain in endodontic patients are discussed.

Learning Objectives: At the end of the session the learner should be able to:

1. Understand the steps involved in pain transmission

2. Have an improved understanding of referred pain
3. Identify effective strategies for obtaining adequate local anesthesia and pain control