The Marc Balson NJAE
Endodontic Winter
Symposium 2018

NEW JERSEY ASSOCIATION OF ENDODONTISTS

Charles Maupin, D.M.D.
Diplomate, ABE

Merzhad Khakpour, MS., PhD.

John A. Khademi, D.M.D., MS.

This live learning activity provides 6 ADA CERP® continuing education credits.

Saturday
March 16, 2019

Marriott Hotel
Newark's Liberty International Airport
www.marriott.com

Registration and Continental Breakfast
7:00 AM - 7:50 AM

Lunch
11:45 - 12:45

Symposium
8:00 AM - 4:00 PM

Suggested Accommodation: Newark's Liberty International Airport Marriott Hotel
NJAE has reserved a number of rooms at reduced rates.

Marriott Hotel - Reservations:
973-623-0006 or 1-800-882-1037
Newark's Liberty International Airport is served by the major domestic airlines.

23 rd Annual Marc Balson NJAE Winter Symposium

The New Jersey Association of Endodontists
Presents the

New Jersey Association of Endodontists
Endodontic Symposium 2019
Dr. Joseph Chikvashvili
100 Northfield Avenue
Suite #4
West Orange, NJ 07052
www.NJENDO.org

ADA C·E·R·P® | Continuing Education Recognition Program

The New Jersey Association of Endodontists is an ADA CERP recognized provider. *ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry.*

Concerns or complaints about a CE provider may be directed to the provider or to ADA CERP at www.ada.org/cerp.

Dr. Charles T. Maupin grew up in Artesia, New Mexico. He graduated with a B.S. in Biology from Lubbock Christian University. Dr Maupin received his DDS degree from Baylor Collage of Dentistry. Following graduation from Baylor College, Dr. Maupin attended the University of California, Los Angeles, where he served as Chief Resident and received his endodontic specialty certificate. Dr. Maupin continues to be involved at UCLA where he is a part-time faculty member. Dr. Maupin is a Diplomate of the American Board of Endodontics. He is also a founding member of the International Academy of Endodontics and maintains a private practice limited to endodontics and maintains a private limited to endodontics and implants in Lubbock, Texas. Dr. Maupin is the conceptual developer of Dynamically Guided Endodontics. He presents lecturers and teaches hands on courses on this topic and its use in the field on endodontics.

"Guided Endodontics: Is it a trend or the future of Endodontics?"

Dr. Maupin will begin the lecture reviewing the literature on the use of guides in endodontics. He will then review the difference between static guides and dynamic guides and the advantages and disadvantages of each. Many endodontics feel that endodontic access sets the foundation for the endodontic procedure and is often stated to be the most critical and challenging aspect of conventional endodontic therapy. Endodontic re-treatment also poses difficulties in the endodontic practice with untreated canals and an increasing number of fiber posts being placed. The localization of the apex of the tooth along with resection of the appropriate amount of the root length can present challenges to the operator. Dr. Maupin will discuss and show how use of dynamically guided endodontics can benefit the operator helping to overcome many of the challenges that present to the endodontic practice.

Leaning Objective:

- The literature in regard to the rationale for the guided endodontic access?
- Do you know the difference between a static guide and dynamically guided endodontics?
- Have you learned how to apply dynamic navigation to you endodontic treatment.

Disclosure: Dr. Charles T. Maupin has no financial involvement to declare.

Dr. Merzhad Khakpour was born and raised in Tehran, Iran where he graduated with a Bachelor of Science degree from the Sharif University of Technology. He then moved to the United States where he earned his Master of Science degree, and Ph.D in Mechanical Engineering from the University of Minnesota and the University of California, respectively. His graduate programs areas of study and research included *turbulent reacting flows*, cardi*ovascular fluid dynamics*, and *mathematical modeling of atherosclerosis using the theory of porous media*. Dr. Khakpour joined Sonendo, Inc. in 2008. It is there where he developed the GentleWave technology, and currently serves as the Vice-president of research and development.

"Saving Teeth through Sound Science"

Technology is moving at a faster pace now than ever before, and the rapid adoption of technological advancements in the medical field is resulting in improvements in human longevity and quality of life. In recent years, the specialty of endodontics has struggled to keep pace with the growth of several other segments within the dental market, e.g. implant dentistry, which have benefitted from development of new technologies. The GentleWave System is a transformative technology and the result of more than a decade of investment in research and development intended to serve the endodontist in their pursuit to save teeth for patients in need of root canal therapy. In this presentation of the GentleWave System Dr. Merzhad Khakpour will review the fundamental principles of the mechanism of action and the procedure, as well as the efficacy and efficiency milestones achieved through extensive research and development. The presentation will also attempt to address some of the frequently asked questions.

Learning Objectives:

- Understand the mechanism of action of GentleWave Technology and the inclusion/exclusion criteria
- Understand the difference between GentleWave Technology and other technologies used for cleaning and disinfection
- Review the Gentle Wave procedure and understand the key steps involved
- Discuss safety and important considerations
- Understand what it takes to integrate the GentleWave System into an endodontic practice successfully

Disclosure: Dr. Merzhad Khakpour is the Director of Research & Development for SONENDO, Inc. and a part owner.

Dr. John A. Khademi received his DDS from the University of California San Francisco and his certificate in endodontics and did his MS on digital imaging from the University of Iowa. He is in full time private practice in Durango Colorado, thoroughly enjoys providing patient care, and intends to continue practicing clinical dentistry. He was an Associate Clinical Professor in the Dept. of Maxillofacial Imaging at USC and is Adjunct Assistant Professor at SLU. In his "rior life" he wrote software for laboratory automation, instrument control and digital imaging. He lectures internationally about CBCT, clinical trial design, outcomes, and conventional endodontic technique. As a Radiological Society of North America (RSNA) member for over 25 years, his background in medical radiology allows him a perspective shared by very few dental professionals.

John is a clinician first, yet has been active in dental research and standards development, and has a very long history of teaching and education. His primary interests are in digital imaging, CBCT, clinical trial design and outcomes. As a RSNA member for over 25 years, his background in imaging and radiology comes from medicine which provides a perspective on these topics shared by very few dental professionals. He has worked with the ADA and AAE in standards development efforts for computers in dentistry that have ushered in this era of clinical computer use. John has been on several of these committees both in the ADA and AAE and was Chair of the Informatics Committee and advised the Executive Committee of the AAE on technology. He has contributed to many sections and chapters in textbooks and is the lead author for Quintessence' "*Advanced CBCT for Endodontics: Technical Considerations, Perception, and Decision-Making*"

Lecture 1: "Too much medicine? Too much dentistry"

Low-cost, low-dose CBCT has heralded a new era for dental imaging as big for us as CT was for medical imaging 30+ years ago. These advanced imaging studies are impressive in their ability to render anatomic detail in useful ways for treatment planning as well as demonstrate abnormalities. Research and academic publications have established the ability of CBCT to detect smaller abnormalities as well as detect abnormalities earlier allowing the clinician to intervene earlier and more decisively. This is the prevailing model for both medicine and dentistry: earlier detection leading to earlier diagnosis leading to earlier staging leading to earlier and possibly less invasive intervention leading to better outcome. Can we detect abnormalities too early or too small? Should more sensitive imaging encourage earlier intervention, as is traditionally thought, or exactly the opposite?

CBCT has been described as a cipher into the roles of probability and cognitive bias in clinical decision-making along with the associated confidence. This presentation will introduce some of the concepts and language of probability, cognitive bias and ensuing decision-making through the consideration of over-diagnosis that we will examine through the lenses of clinicians and educators, and eventually as patients ourselves.
This provocative presentation will use examples from both medicine and dentistry and will have you questioning diagnosis, treatment-planning and treatment as an educator, clinician, spouse, parent, and patient yourself.

Learning Objectives:
- Patient-centered outcomes vs. clinician and process-outcomes.
- Screening vs. diagnostic imaging. Detecting disease vs. disease that matters.
- Common cognitive biases that can lead to systematic errors. Thinking fast vs. slow.
- How these issues affect clinical decision-making and patient outcomes in practice.

Lecture 2: "The ABC's of CBCT: Academic Answers, Best Practices and Compelling Cases"

The logistics for reviewing CBCT studies is radically different from that of projection radiography, along with being counter-intuitive, and not widely appreciated in endodontics. The sheer number of possible views with CBCT coupled with the interpretive issues confound both CBCT and projection radiography which has led to guidelines position papers for prescribing and interpreting imaging studies. These guidelines claim to be scientifically-based but, are not based on what has been learned about the interpretive process in medical radiology. Medical radiology has a long and deep history of academic inquiry into perception metrology and the radiographic interpretive process. This presentation will review key research findings, introduce guidelines and best practices for interpreting CBCT based on what has been learned about the perceptual and cognitive processes from medical radiology. We will develop these protocols using real clinical cases from the presenter' practice.

Learning Objectives:
- Gain a window into the subtle perceptual and cognitive issues with image interpretation
- Understand the critical distinction between diagnostic imaging and screening imaging
- Understand the role of explicit, tacit and embedded history in the interpretive process
- Understand the role of language in driving decision-making
- Have an explicit strategy for efficiently reviewing focused-field, single-arch, ½ arch and dual-arch studies

Disclosure: Dr. John A. Khademi is a paid consultant for SS White, Inc. and Creamstream Dental

On-line registration only at: www.njendo.org

Tuition:
Please check appropriate box
(Tuition includes continental breakfast, lunch and course materials)

NJAE Members (with 2018/2019 dues paid).	$260
Non-Member Endodontists & Dentist (if you register before 3/01/2019)	$395
U.S. Military Dentists	$225
Full Time Endodontic Facuity	$325
Endo PG's/Undergrad Dental Students	$125
Non-Member Endodontists & Dentist (after March 1, 2019)	$450
NJAE Members (after March 1, 2019)	$350

For more information please contact:

Dr. Joseph Chikvashvili at 973-731-4800
or Dr. Marc Balson at **guttadoc@msn.com**

Use our online registration application on the New Jersey Association of Endodontists website.

www.njendo.org

NJAE membership is not restricted to endodontists from New Jersey. If you are a practicing endodontist/dentist from another state or country you can be a member of NJAE with a dues payment of $135.00 per year. That entitles you to a discounted registration fee and free Fall Symposium registration.

*Course Cancellation Policy:

NJAE reserves the right to cancel a course up to three weeks prior to the course date. If the course is cancelled, the registration fee will be refunded in full. It is advisable to check and confirm course status before making your travel arrangements.

Cancellations by the registrants within **7 days of the program** will be charged the full registration fee they paid. A 75% refund will be applicable for cancellations before March 1st to cover administrative expenses.