Marquette University School of Dentistry
CE Land Tour to Portugal
October 25—November 2, 2019

Travel + Leisure recently named Portugal its “Destination of the Year”. Go for the food, go for the wine, go for the architecture, go for the hospitality…but definitely go!

<table>
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<tr>
<th>Date</th>
<th>Activities</th>
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<tr>
<td>Fri, Oct 25</td>
<td>Depart US</td>
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| Sat, Oct 26   | Arrive Lisbon
                Transfer to hotel
                Afternoon at leisure
                Dinner
                Overnight at 5* Pousada de Lisboa |
| Sun, Oct 27   | Lisbon and CE Lecture
                Breakfast at hotel followed by CE Lecture
                Depart from hotel to discover Lisbon by Tuk tuk’s - the tour will show the highlights of the city as we pass through several neighbourhoods on our way to lunch overlooking Old Lisbon before our visit to Saint George Castle.
                Dinner on own
                Overnight at 5* Pousada de Lisboa |
| Mon, Oct 28   | CE Lecture and Sintra
                Breakfast at hotel followed by CE Lecture
                Tour of Sintra Palace
                A UNESCO World Heritage Site and the best-preserved medieval royal palace in Portugal. Sintra Palace was a favourite of the Portuguese nobility. The minimalistic gothic exterior of the palace hides a wonder of decorative state rooms. The palace’s long history has been intertwined with the fortunes of Portugal’s ruling nobility, who resided here from the early 15th through to the late 19th century making it Portugal’s most lived in royal palace. |
Afternoon at leisure
Portuguese Cooking Experience and Dinner
Overnight at **5* Pousada de Lisboa**

Meals—B, D

**Tue, Oct 29**  Óbidos and Douro Valley
Breakfast at the hotel and check-out
Depart for Óbidos

*A small village completely surrounded by ancient defence walls with some precious monuments, fine towers and a medieval castle. It is inevitably one of Portugal's most visited sites, but its authenticity hasn’t yet been ruined by tourism. Throughout the village you’ll see gothic doorways, potted plants and lots of bougainvillea, while the castle is now a pousada. You can walk around its ramparts for the best views and photos. At the end of your sightseeing, try the famous local drink, the ginjinha (cherry liqueur), often served in a chocolate glass.*

In the afternoon we head to picturesque Douro Valley where we will spend the evening
Dinner at the hotel
Overnight at **5* Douro Royal Valley Hotel & Spa**

Meals—B, D

**Wed, Oct 30**  CE Lecture Day in the Douro
Breakfast at hotel followed by **CE Lecture**
Check out and depart for Porto

*The Douro Valley is the land of Port wine where nature and man’s work blend in a grand landscape full of contrasts. Surrounded by mountains, the Douro Valley is a hot and dry enclave amidst a cold land. The granitic foothills of Marão and Montemuro shelter this region from the Atlantic humid winds which is why Mediterranean plants have grown here for centuries—grape vines, olive and almond trees, as well as sweet and tasty fruits, such as oranges, figs, peaches and cherries.*

Coffee break at **Casa da Calçada**
Wine tasting and lunch at **Quinta da Pacheca**
Dinner on own
Overnight at **5* Infante Sagres**

Meals—B, L

**Thu, Oct 31**  Porto
Breakfast at hotel followed by **CE Lecture**
Walking Tour
Afternoon at leisure
Dinner on own
Overnight at 5* Infante Sagres

Meals—B, L

Fri, Nov 1  Minho
Breakfast at hotel followed by CE Lecture
Today we head north to the beautiful province of Minho with stops in Guimarães, a UNESCO World Heritage Site and Braga, home to the oldest cathedral in Portugal. Lunch will be at a beautiful Pousada.
Farewell Dinner at Barão Fladgate
Overnight at 5* Infante Sagres

Meals—B, L, D

Sat, Nov 2  Fly Home From Porto

For more information contact
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Interpretation of Intraoral images: The Lore and the Lure of the Lamina Dura

As radiographic interpretation is based on a sound understanding of underlying anatomy, the course will review anatomic landmarks in intraoral images. The role of the lamina dura and periodontal ligament space in identifying disease processes will be discussed in detail. The common cysts and tumors that may be seen in intraoral images will also be presented.

Expectations and Objectives—At the end of this course participants should be able to:

1. Recognize anatomy on intraoral images
2. Identify common cysts and tumors seen on intraoral images
3. Identify diseases which may affect the lamina dura and pdl spaces.
4. Understand the difference between and recognize the radiographic appearance of common periapical lesions and their relationship to the pdl space and lamina dura

Interpretation of Panoramic Images – Darkness and Light, Shadows and Ghosts

Dr. Koenig will discuss the basic operating principles of panoramic imaging and the importance of patient positioning and correction of errors. The radiographic presentation of common pathologies, including calcifications, as they appear in panoramic images will be presented and correlated with Cone Beam Computed Tomography (CBCT) images where appropriate. The course will also review anatomic landmarks, soft-tissue and ghost images as seen in panoramic radiographs.

Expectations and Objectives — At the end of this course participants should be able to:

1. Understand patient positioning errors and how to correct them
2. Identify common pathology seen in panoramic radiographs
3. Recognize anatomic landmarks, soft-tissue and ghost images in panoramic radiographs

CBCT Imaging: Dose in Perspective and Applications

Dr. Koenig will discuss the basic operating principles of a typical CBCT machine and review the frequently used terminology. Radiation dose for different fields of view will be compared to traditional dental imaging and medical imaging. The various position papers in the use of CBCT in the dental specialties will be reviewed and will be enhanced with examples of CBCT imaging in implant planning, endodontics and orthodontics. A brief discussion of the use of CBCT imaging in the production of surgical guides will also be included. Dr. Koenig will additionally review radiographic anatomy as seen on CBCT images from the cranial base to the suprathyroid neck. The radiographic presentation of common pathology will be discussed with emphasis on the description of radiographic features and the formulation of differential diagnoses.

Expectations and Objectives — At the end of this course participants should be able to:

1. Understand the basic concepts of CBCT imaging
2. Recognize anatomy on CBCT images
3. Recognize common pathology on CBCT images
4. Understand the role of CBCT imaging in the various specialties
5. Know radiation doses for typical CBCT fields of view and compare to medical CT imaging

Radiographic Imaging of Temporomandibular Joint Disorders, Asymmetry and Airway Analysis

A review of the normal anatomy and innervation of the temporomandibular joint (TMJ) and surrounding structures. The radiographic appearance of the various disorders that may affect the TMJ complex, including developmental and degenerative conditions with and without disc reduction will be discussed. The role of TMJ disorders on facial growth and development as well as airway dimensions will be included.

Expectations and Objectives — At the end of this course participants should be able to:

1. Know the anatomy of the TMJ and surrounding structures
2. Recognize common disorders of the TMJ
3. Understand how TMJ disorders may affect airway dimensions
4. Understand the role the TMJ plays in growth and development of the oral and maxillofacial complex

Lisa Koenig BChD, DDS, MS

Dr. Koenig currently serves as Associate Dean for Academic Affairs and is a Professor and the Program Director of Oral Medicine and Oral Radiology at Marquette University School of Dentistry in Milwaukee, Wisconsin. She received the Full-time Faculty Excellence in Teaching Award in 2009 and the Marquette University Rev. John P. Raynor Teaching Excellence Award in 2010. Dr. Koenig has been Board certified in Oral and Maxillofacial Radiology since 1996 and is Past-President of the American Board of Oral and Maxillofacial Radiology. She completed an oral and maxillofacial imaging text-book “Diagnostic Imaging: Oral and Maxillofacial” which was published in 2011 and contributed to a text on implants: “Specialty Imaging: Dental Implants” which was published in 2014. She also contributed to a text on TMJ which was published in June 2016, second edition of the Diagnostic Imaging book was published in June 2017.