Summer Hands-On-Workshop (HOW)

Salus University offers two four–day workshops every summer at the Elkins Park campus. The goal of these workshops is to provide an update on advanced and current science in the specific topic of study for the workshop, review clinical implications, and provide hands-on training using the tools and techniques discussed in order to improve clinical practice. The workshops are designed to have an immediate impact on the participant's clinical service delivery and are taught by faculty who are distinguished by their expertise.

Diagnosis and Management of External and Middle Ear Function and Cerumen Management
July 22-25, 2017

Workshop Description

This workshop provided a comprehensive review of the diagnosis and management of external and middle ear function. The anatomy and physiology of the normal and disordered outer and middle ear systems were covered. The impact of pathology on the transmission of sound through these systems were discussed. The principles of Otoscopy and Cerumen Management were covered and practiced during hands-on activities. Updates on traditional middle ear assessment techniques, such as 226 Hz tympanometry and acoustic reflex testing were reviewed. Several new and/or underutilized techniques including multi-frequency tympanometry and wideband acoustic immittance were discussed and practiced via hands-on activities. The use of this technology in both the pediatric and adult populations were covered and participants were able to develop or refine their middle ear test batteries.

Faculty:
Martin Pienkowski, PhD
Anil Lalwani, MD
James Hall, PhD
Lisa Hunter, PhD
Sherman Lord, AuD
Jonette Owen, AuD
Jiovanne Hughart, AuD

All instructors and relevant personnel have completed a disclosure form. Martin Pienkowski, Anil Lalwani, James Hall, Lisa Hunter, Jiovanne Hughart and Jonette Owen have no relevant financial and nonfinancial relationships to disclose. Sherman Lord in Vice-President/Regional Sales Manager for e3 Diagnostics and e3 Mid-Atlantic Group.

May 30, 2017
Time Ordered Agenda for Diagnosis & Management of Middle Ear Function and Cerumen Management

Please note: Unless otherwise noted, all classes will take place in ROOM #W111

Saturday, July 22nd

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>8:30 am - 9:30 am</td>
<td>Registration and Continental Breakfast</td>
<td>Café Foyer</td>
</tr>
<tr>
<td>9:30 am - 10:00 am</td>
<td>Introduction to Advances in Middle Ear Assessment</td>
<td>(J Hall)</td>
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<tr>
<td>10:00 am - 11:30 am</td>
<td>Sound Transmission to the Cochlea Pt 1</td>
<td>(M Pienkowski)</td>
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<tr>
<td>11:30 am - 11:40 am</td>
<td>BREAK</td>
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<tr>
<td>11:40 am - 1:10pm</td>
<td>Sound Transmission to the Cochlea Pt 2</td>
<td>(M Pienkowski)</td>
</tr>
<tr>
<td>1:10 pm - 2:00 pm</td>
<td>LUNCH</td>
<td>Small Café</td>
</tr>
<tr>
<td>2:00 pm - 3:00 pm</td>
<td>The Art and Science of the Otoscopic Examination</td>
<td>(A Lalwani)</td>
</tr>
<tr>
<td>3:00 pm – 4:00 pm</td>
<td>External and Middle Ear Disorders and Diseases</td>
<td>(A Lalwani)</td>
</tr>
<tr>
<td>4:00 pm – 4:15 pm</td>
<td>BREAK</td>
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<tr>
<td>4:15 pm – 5:15 pm</td>
<td>Ear Implants: State of the Science</td>
<td>(A Lalwani)</td>
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<tr>
<td>5:30 pm</td>
<td>DINNER</td>
<td>Small Café</td>
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Sunday, July 23rd

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00 am – 8:30 am</td>
<td>Registration and Continental Breakfast</td>
<td>Small Café</td>
</tr>
<tr>
<td>8:30 am – 9:30 am</td>
<td>Making the Most of Middle Ear Measurement: Single Frequency/Single Component Tympanometry</td>
<td>(J Hall)</td>
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<tr>
<td>9:30 am – 10:00 am</td>
<td>Making the Most of Middle Ear Measurement: Other Valuable Immittance Measures</td>
<td>(J Hall)</td>
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<tr>
<td>10:00 am – 10:15 am</td>
<td>BREAK</td>
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<tr>
<td>10:15 am – 11:45 am</td>
<td>The Diagnostically Powerful Acoustic Reflex</td>
<td>(J Hall)</td>
</tr>
<tr>
<td>11:45 am – 12:15 pm</td>
<td>Hands On Demonstration: Immittance Measures</td>
<td>(J Hall)</td>
</tr>
<tr>
<td>12:15 pm – 1:15 pm</td>
<td>LUNCH</td>
<td>Small Café</td>
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<tr>
<td>1:15 pm – 2:45 pm</td>
<td>Acoustic Immittance Measures in the Diagnostic Test Battery</td>
<td>(J Hall)</td>
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<tr>
<td>2:45 pm – 3:00 pm</td>
<td>BREAK</td>
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<tr>
<td>3:00 pm – 5:00 pm</td>
<td>Hands-On Demonstration: Acoustic Reflex and Advanced Acoustic Immittance Measures &amp; Case Studies.</td>
<td>(J Hall)</td>
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<tr>
<td>5:15 pm</td>
<td>DINNER</td>
<td>Small Café</td>
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Monday, July 24th

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:00 am – 8:30 am</td>
<td>Registration and Continental Breakfast</td>
<td>Small Café</td>
</tr>
<tr>
<td>8:30 am - 10:30 am</td>
<td>Making the Most of Middle Ear Measurement: Multi-Frequency/Multi-Component Tympanometry</td>
<td>(L Hunter)</td>
</tr>
<tr>
<td>10:30 am – 10:45 am</td>
<td>BREAK</td>
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<tr>
<td>10:45 am - 11:45 am</td>
<td>Introduction to Wide Band Reflectance/Absorbance</td>
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May 30, 2017
May 30, 2017

Learning Objectives for Diagnosis & Management of Middle Ear and Cerumen Management

1. Define the specific measures used in middle ear assessment. (Intro to Middle Ear Assessment session)
2. Describe the physiological process involved in sound transmission through the external and middle ear. (Sound Transmission to the Cochlea session)
3. Describe proper otoscopic technique when evaluating the external ear. (The Art & Science of Otoscopic Examination session)
4. Define and visually identify various external and middle ear pathologies encountered in the clinic. (External & Middle Ear Disorders and Diseases session)
5. Describe the types of implantable devices currently available and in use. Identify candidacy issues. (Implantable Devices: State of the Science session).
6. Evaluate the strengths and limitations of conventional admittance tympanometry tests. (Making the Most of Middle Ear Measurement: Single Frequency/Single Component Tympanometry session).
7. Explain clinical value of multi-frequency tympanometry (Making the Most of Middle Ear Measurement: Multi-Frequency/Multi-Component Tympanometry session).
8. Compare and contrast wide band reflectance/absorbance and conventional tympanometry (Introduction to Wide Band Reflectance/Absorbance session).
9. Participant will practice with various equipment and test protocols. (All hands-on sessions).
10. Demonstrate expanded applications of aural immittance technology. (Related Hand-On sessions).
11. Participant will practice with various equipment and test protocols during the “Hands on Portions” of the workshop.
12. Demonstrate the expanded functions of conventional immittance technology and how to conduct and interpret disorder-focused special tests. (Clinical Applications of Wide Band Reflectance/Absorbance & Case Studies session).
15. Participants will practice with obtaining and interpreting acoustic reflex measures.
17. List and visually identify common external ear pathologies encountered during cerumen removal. (Introduction to Cerumen Management session).
18. Identify appropriate tools and methods of cerumen management. (Cerumen Management Methods session).
19. Demonstrate and practice various cerumen management methods including lavage and instrumentation. (Hands on: Interactive Session with all Equipment session).
20. Identify issues that can occur during cerumen removal and best treatment strategies to minimize risk and improve patient outcomes. (Post Cerumen Management Problems session).

Salus University is approved by the American Academy of Audiology to offer Academy CEUs for this activity. The program is worth a maximum of 2.7 CEUs. Academy approval of this continuing education activity is based on course content only and does not imply endorsement of course content, specific products, or clinical procedure, or adherence of the event to the Academy’s Code of Ethics. Any views that are presented are those of the presenter/CE Provider and not necessarily of the American Academy of Audiology.
This program is offered for up to 2.7 CEUs (Advanced level; Audiologic Assessment (5010) area).

Salus University is approved by the Continuing Education Board of the American Speech-Language-Hearing Association (ASHA) to provide continuing education activities in speech-language pathology and audiology. See course information for number of ASHA CEUs, instructional level and content area. ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.
There will be limited enrollment in each workshop to enhance the student’s learning experience.

For further information, please contact:

gsundar@salus.edu
pkane@salus.edu
bmyers@salus.edu
jwilbur@salus.edu

2017 Summer Workshop Series
Information & Pricing

Full 4 Day Workshop
Diagnosis and Management of External and Middle Ear Function (Includes Cerumen Mgmt.)*
July 22 through July 25, 2017:
Standard Cost: USD $1,025.00
Active 2016-2017 OCA Preceptors (20% discount): USD $820.00
Recent OCA Graduates (2013-2016) (10% discount): USD $923.00

Single Day Registration - please select individual day(s)

<table>
<thead>
<tr>
<th>Day</th>
<th>Description</th>
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<tbody>
<tr>
<td>#72217</td>
<td>Saturday July 22, 2017 – Outer and Middle Ear Science</td>
</tr>
<tr>
<td>#72317</td>
<td>Sunday July 23, 2017 – Update on the Acoustic Reflex</td>
</tr>
<tr>
<td>#72417</td>
<td>Monday July 24, 2017 – Advanced Tympanometry Wide Band Reflectance</td>
</tr>
<tr>
<td>#72517</td>
<td>Tuesday July 25, 2017 – Cerumen Management**</td>
</tr>
</tbody>
</table>

For more information and to register online: [www.salus.edu/summerworkshops](http://www.salus.edu/summerworkshops)

* Please see full course outline for curriculum and daily agenda details of each workshop
* All attendees are strongly encouraged to bring their personal laptops or tablets. In an effort to reduce waste, paper copies of lectures will not be distributed.
2017 Summer Workshop

Registration & Payment

Name: ________________________________________________________________

Organization: __________________________________________________________

Street Address: __________________________________________________________

City: ____________________________ State/Province: __________________________

Postal/Zip Code: ____________________________ Country: _____________

Email: ____________________________________________ Phone: __________

Course/Workshop(s) chosen: ______________________________________________

Credit/Debit Card # ____________________________ Expiration: ___/___

Name on Card: __________________________________________________________

Billing Street Address: ____________________________________________________

City: ____________________________ State/Province: __________________________

Postal/Zip Code: ____________________________ Country: _____________

Total Amount to Be Charged: USD$__________

1. If a registrant cancels before July 12, 2017, they will receive a full refund minus a $25 administrative fee.
2. If a registrant cancels after July 12, 2017, there will be a $200 cancellation fee.
3. If a registrant must cancel at any time due to a medical emergency, he/she will receive a 100% refund of the registration fee if the cancellation request is accompanied with a note from a physician.
4. If the registration payment was made by credit card, the cancellation refund will be credited to the credit/debit card account.
5. If the registration payment was made by check, the cancellation refund will be sent via check to the address provided on the CE registration form. Checks are to be made payable to “Salus University” and sent to Osborne College of Audiology, 8360 Old York Rd., Elkins Park, PA 19027.

** The following applies to July 25, 2017: Cerumen Management – Please initial: 

_____ I will bring my own otoscope
_____ I am a licensed audiologist
_____ I have professional liability insurance

State(s) of licensure:

May 30, 2017
In the instance that this Summer Workshop is cancelled or rescheduled:

Salus University reserves the right to cancel courses, change meeting places, or make other necessary and appropriate changes to the continuing education schedule. Courses that have not met minimum enrollment prior to the start date may be cancelled. Registrants will be alerted to the cancellation or rescheduling of an event via email and on the Salus University website. Refunds of registration fees for cancelled or rescheduled continuing courses are subject to the following requirements:

1. If a course is cancelled, the registrant automatically receives a 100% refund.
2. If a course is rescheduled, the registrant may (1) apply the registration fee to the new course date or (2) receive a 100% refund.
3. If the registration payment was made by credit card, the cancellation refund will be credited to the credit card account.
4. If the registration payment was made by check, the cancellation refund will be sent via check to the address provided on the CE registration form.

Event Cancelled by the Registrant

Registrants may cancel their participation in a CE program in advance of the start date. The following parameters will apply:

1. If a registrant cancels before July 12, 2017, they will receive a full refund minus a $25 administrative fee.
2. If a registrant cancels after July 12, 2017, there will be a $200 cancellation fee.
3. If a registrant must cancel at any time due to a medical emergency, he/she will receive a 100% refund of the registration fee if the cancellation request is accompanied with a note from a physician.
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In the instance that this Summer Workshop is unsatisfactory to attendee:

Participants wishing to register a complaint due to dissatisfaction with continuing education program provided by Salus University should contact the Office of International and Continuing Education at the following address:

Salus University
Office of International and Continuing Education
8360 Old York Road
Elkins Park, PA 19027
Email: CEregistration@salus.edu

May 30, 2017
The participant must indicate the nature of the complaint; the continuing education program about which the complaint is based; the date and time of the issue giving rise to the complaint; and any other pertinent information about the complaint. The Office of International and Continuing Education will respond in writing to complaints within 15 business days of receipt. The Office of International and Continuing Education will make determinations regarding appropriateness of refunds based on complaints in consultation with the Salus University continuing education advisory group.

For further information or questions about accessibility, please contact Ms. Janet Wilbur – jwilbur@salus.edu or 215-780-1380.