2021 AudiologyOnline Corporate Partner CEU Course Submission Form

Reminder: Completed form must be received about 45 days before the class is to take place

COURSE INFORMATION

Company: INVENTIS SRL

Company ASHA ID (if applicable, and not already on file at AO): ---

Course Title: Central eye movement disorders – a window to peripheral and central function

Date: 2023-20-04

Time: Noon – 1pm

Time Zone: ET CT MT PT

2 Sentence Description:
The webinar delves into the crucial role of gaze stabilization in daily functioning, which allows individuals to track objects, orient in space, and perceive the world in three dimensions. It examines the complex interactions between the brain and peripheral sensors that manage signals sent to oculomotor and spinal muscles, highlighting the vestibular system's key contribution. The session discusses how eye movements reflect brain integration processes, and how abnormalities in these movements can indicate neurological issues, often before they are detectable through imaging. The presentation features a personal collection of over 80 abnormal eye movements to illustrate different neurological pathologies, utilizing advanced computerized tools to measure and diagnose these abnormalities.

Course Instructional Level (choose one): Introductory Intermediate Advanced

Moderator(s) Name and Email: -

Presenter(s) Name: Prof. Soumit Dasgupta MBBS DLO MS FRCS MSc FIAOHNS FRCP

Presenter Email: Soumit.Dasgupta@alderhey.nhs.uk

Presenter Biography: (paragraph):

Prof Soumit Dasgupta MBBS DLO MS FRCS MSc FIAOHNS FRCP

Prof Dasgupta is an award winning consultant neurotologist and audiovestibular physician at Alder Hey Children's NHS Foundation Trust and the Hypatia Dizziness and Balance Centre in Liverpool, United Kingdom. He is a senior lecturer in the University of Liverpool and a lecturer in the University of Manchester, UK and a visiting professor in the University of Siena, Italy. He is a globally acknowledged expert in paediatric vestibular disorders leading one of the few tertiary paediatric vestibular centres in the world and a paediatric vestibular research laboratory. He is well published in peer reviewed index journals and has written several text book chapters. He is leading the UK in looking into genetic hearing loss and ototoxicity in the paediatric population with dedicated monitoring protocols and represents the UK in the International Ototoxicity Monitoring Group (IOMG), a global consortium of experts researching in ototoxicity. He is the international secretary of the International Vestibular Society, the Chairman of Education in the British Association of Audiovestibular Physicians and an executive committee member of the British Society of Neurotology and Otology. He is an expert reviewer for 9 index journals on Neurotology and Genetics, in the editorial board of four index journals and is an expert adviser to the General Medical Council, United Kingdom.

Special Notes about this course (Public, Private or Unlisted) (Display changes, specific group, etc.):
Presented by Inventis within the framework of the Academia Project 2024.

LEARNER OUTCOMES: Submit a **minimum of 3 Learner** Outcomes - Should be *measureable* and should complete the following sentence: "After this course, participants will be able to:" NOTE: Do not use words such as "learn" and "understand" since these outcomes cannot be measured.

1.After this course, participants will be able to identify different types of abnormal eye movements and associate them with specific neurological, ophthalmological, or vestibular disorders.

2.After this course, participants will be able to demonstrate how to use VNG goggles to measure and analyze oculomotor eye movements effectively in a clinical setting.

3.After this course, participants will be able to distinguish between peripheral and central origins of eye movement disorders using clinical testing protocols, including the head impulse test and vestibular nystagmus assessment.

NEEDS ANALYSIS: Please indicate how the need for this course was determined**. Place an X** next to all the relevant areas for this course **AND** provide a brief statement of the overall needs analysis.

_____Changes in Recommended Best Practices

_____Compliance

___**X**___Current Professional Issue

How was this need determined (i.e., Professional articles, Professional Blog entries, State or Government regulation change):
As noted in multiple studies and expert discussions, including those cited in the webinar presentation, there is a growing demand for healthcare professionals who are equipped with specialist knowledge and skills to manage patients with complex eye movement disorders.
There is an increasing recognition among healthcare professionals that eye movement disorders are not only symptoms but also diagnostic clues that can lead to early identification of serious conditions such as multiple sclerosis, Parkinson's disease, and cerebellar ataxia.

__ **X** ___Customer Feedback/Request

How was this need determined (i.e., Meetings, Customer Calls, Course Evaluations, Information from Field Staff):
Post-event surveys have revealed a widespread lack of awareness regarding the niche subject.

__ **X** ___Emerging Research

How was this need determined (i.e., Professional articles or research):
The need for this course was determined based on emerging research and clinical observations that indicate a profound link between eye movement disorders and central brain functions. Recent advancements in neurology and ophthalmology have highlighted the importance of accurately diagnosing and understanding the underlying causes of eye movement disorders, which are often indicative of broader neurological, vestibular, or ophthalmological conditions.

____ Focus Group/discussion

How was this need determined (i.e., Who was in the group, When did the group meet):

__ **X** _New Procedure/Software/Product

_____New Technology

_____Subject Matter Expert (SME) Recommendation

How was this need determined (i.e., Who was the SME, When did the discussion take place)
Advancements in Diagnostic Techniques: Recent advancements in diagnostic technology, such as Video Nystagmography (VNG) and other ocular tracking devices, have made it possible to observe and measure eye movements with greater accuracy, necessitating updated training for clinicians on how to use these technologies effectively.

_____Other: _____

How was this need determined (i.e., Explain your evidence for the Needs Analysis for this Continuing Education Course):

Short description of needs analysis (1-3 sentences):
Interdisciplinary research involving neurology, otology, and ophthalmology has developed new insights into the pathogenesis of eye movement disorders. This course integrates these findings, providing participants with the latest knowledge and research-based approaches to diagnosis and management.

Examples:
We created this course because of changes in the fitting software for ABC hearing aids.
This course was created because there are new candidacy criteria and fitting protocol for ABC hearing aids.
We created this course because we were receiving numerous questions from our customers about integrating verification procedures with fitting ABC hearing aids.
We created this course because of customer requests for instruction on this topic.
We created this course because Florida-licensed audiologists must comply with license maintenance requirements for continuing education on this topic.

TIME ORDERED AGENDA: There can be no more than 5 minutes for Introductions in the beginning and 5 minutes for Q and A at the end of the event. There must be a minimum of 3 other sections of the agenda. We also need to know which Learner Objective the time increment is associated with, from the list provided above (Indicate 1, 2, or 3 in the space below).

Time Increment	Topic	Instructional Method (Lecture, Screen Share, Case Study, Interactive Discussion)	Learning Outcome (1, 2, or 3)
00:00 – 14:00	Introduction	Lecture/Screen Share	
14:00 – 26:39	Fundamentals of eye movements and pathogenesis of abnormal movement	Lecture/Screen Share	1,2,3
26:39 – 38:19	Oculomotor eye movements of peripheral vestibular origin	Lecture/Screen Share/Case Study	1,3
38:19 – 1:06:43	Oculomotor eye movements of central brain origin	Lecture/Screen Share/Case Study	1,3
1:06:43 – 1:10:50	Eye movements in ophthalmological conditions	Lecture/Screen Share/Case Study	1,3
1:10:50 – 1:14:49	Mixed movements: Oculomotor eye movements displaying both peripheral and central component in the same examination	Lecture/Screen Share/Case Study	1,3

1:14:49 –1:18:12	Questions for the audience	Lecture/Screen Share	1,2,3
1:18:12 – 1:19:55	Conclusions	Lecture/Screen Share	1,2,3
1:19:55 – 1:44:03	Debate and questions	Interactive discussion	

TEST QUESTIONS: 5 Multiple Choice questions, with the correct answer. We also need to know which Learning Outcome the test question is associated with, from the list provided above (Indicate 1, 2, or 3 in the space below). No true/false, all the above, none of the above and "a & b" questions/answers. - **Bold or add a background color to the correct Answer and correct Learning Objective**

1. Which type of nystagmus is typically observed with lesions in the brainstem or cerebellum?

   A) Horizontal gaze nystagmus
   B) Downbeat nystagmus
   C) Congenital nystagmus
   D) End-point nystagmus

   CORRECT ANSWER: B
   LEARNING OUTCOME: 1

2. When using VNG goggles to assess eye movements, what is the primary goal?

   A) To determine the color vision of the patient
   B) To measure auditory thresholds
   C) To measure and analyze oculomotor eye movements
   D) To correct refractive error

   CORRECT ANSWER: C
   LEARNING OUTCOME: 2

3. What is the main function of the vestibulo-ocular reflex (VOR)?

   A) To adjust hearing sensitivity based on body position
   B) To regulate blood pressure during changes in posture
   C) To maintain stable gaze during head movements
   D) To control facial expressions

   CORRECT ANSWER: C
   LEARNING OUTCOME: 3

4. Which diagnostic test would be most appropriate to distinguish a central from a peripheral origin of a vestibular disorder?

   A) Electrocardiogram
   B) Audiometry
   C) Head impulse test
   D) Blood pressure measurement

   CORRECT ANSWER: C
   LEARNING OUTCOME: 3

5. In the context of diagnosing eye movement disorders, what does the observation of macrosaccadic oscillations typically indicate?

A) Normal ocular alignment

B) Cerebellar dysfunction

C) Unimpaired vestibular function

D) Effective ocular muscle control

CORRECT ANSWER: B
LEARNING OUTCOME: 1

Course Disclosures

Promotion Disclosure

Please note: It is AudiologyOnline's policy to prohibit promotions in association with learning activities, to align our policies with those of the CEU associations who discourage promotions/offers associated with learning events. There will be no promotions/offers in association with this article/course.

___ SD __ By initialing, the presenter and organization are acknowledging this statement.

Presenter Disclosure

Conflicts of interest may be real or perceived, and any potential for financial or personal gain deriving from the content of your course may constitute a conflict of interest and must be disclosed. Examples of financial disclosures may include but are not limited to: your employer, any grant/research support you are receiving and/or have received, stockholder/ownership in any company or organization, consulting services you provide, royalties you receive and/or patents you own. Non-financial disclosures may include, but are not limited to participation in an advisory board, review panel, membership in an organization, etc. ***Please list all disclosures or indicate "None" if applicable.***

- Financial Disclosures: Prof. Soumit Dasgupta did not receive an honorarium from Inventis for this course
- Non-Financial Disclosures: There are no non-financial disclosures to disclose

Transparency. Continuing education course content must focus on the science and/or contemporary practice of audiology and/or hearing healthcare. Courses about products or services must provide information in a scholarly manner regarding theoretical aspects and/or the details of operation of the product or service. It must be disclosed prior to such courses if there will be limited or no information provided about similar products or services. No promotions or offers of any kind may be associated with your AudiologyOnline course.
Please initial the description that best describes the content of your course:

_ SD ____ This learning event does not focus exclusively on any specific product or service.

_____ This learning event focuses on the following specific products or services and will not include info on other products or services:
_____ Other:

Technical Requirements for the Webinar can be viewed by clicking on this link: Click here for technical requirements and resources for your webinar.

Additional Terms and Conditions

Term: This Agreement is applicable for the above named course during its length of CE eligibility for all possible formats (including but not limited to Live, Recorded, Podcast and Text), up to five (5) years of time unless the course is made inactive/retired from the AudiologyOnline.com website as stated in writing by either party.

Copyright Policy: AudiologyOnline is a for-profit company and your webinar and course materials do not fall under the

"fair use" exception of the Copyright Act. Therefore, by agreeing to these terms and conditions, you acknowledge that you are required to obtain permission to use any copyrighted material in your webinar, and this permission must include publishing the material on AudiologyOnline under the terms of this Agreement. Such permission shall be made available to AudiologyOnline upon request.

Permission. You, as the Presenter, hereby grants AudiologyOnline.com and/or its Affiliates to publish your presentation as a continuing education (CE) course on AudiologyOnline.com and/or its Affiliates. You shall maintain ownership rights in the content material of the CE course. However, all rights in the final, online CE course shall vest in AudiologyOnline.com and/or its Affiliates shall be entitled to market, promote, assign, license, store and/or use the CE course as it sees fit based on its sole discretion. This includes offering the CE course in various formats (including, but not limited to video, recorded, transcription, podcast, modular) and offering the CE course on its Affiliate sites.

Indemnification: By signing this Agreement, you attest that all presentations are original works, free of any copyright restrictions, and/or that you have secured appropriate permissions to publish all presentation materials on AudiologyOnline and/or its Affiliates including, but not limited to images, graphs, charts, and videos. By signing this form, you assume all liability should a claim or dispute arise and you indemnify and hold harmless AudiologyOnline, its Affiliates, directors, officers, employees and agents and their respective successors, heirs and assigns against any and all claims, damages and expenses (including without limitation attorneys' fees) arising out of, without limitation, any breach of terms of this Agreement, misrepresentation by you, whether or not intentional and/or resulting from or related to any claim of copyright infringement, claims of invasion of privacy, unauthorized use of names or pictures, trademark infringement, libel and/or misrepresentation brought by a third party claim or proceeding involving use of any of the materials provided by you.

In the event of a claim (including third party claims) or proceeding for any of the above stated causes of action, AudiologyOnline will notify you, in writing, promptly after AudiologyOnline becomes aware of the facts giving rise to such claim(s) for indemnification. If you do not take control of such claim(s) within thirty (30) days of notification, AudiologyOnline retains the control to respond, defend, litigate, settle or take any other necessary means to handle the third party claim or proceeding and you will be liable to AudiologyOnline for all costs, expenses and damages (including but not limited to attorney's' fees).

Patient Information. Any names, photographs, videos, or other patient/client identifiers in course materials must be used only with the patient/client's knowledge and written authorization, which shall be made available to AudiologyOnline upon request.

Evidence Based. All CE courses on AudiologyOnline must be evidence-based. In evidence-based continuing education sessions, the presenter provides:

- the best available, current, scientific evidence to support a particular practice or guideline which can include exploratory or pilot study data and the related evidence
- information about his/her clinical expertise, expert opinion, and experience in this topic area
- information related to client/patient/caregiver values.

For additional information regarding evidence-based requirements, please see the ASHA resource: http://www.asha.org/ce/for-providers/EBCETutorialIntro.htm

Nondiscrimination Policy: It is the policy of AudiologyOnline to create and maintain a rich online learning environment that values diversity, respects human dignity, is hospitable, equitable, tolerant, and one in which all persons are free from all forms of discrimination or discriminatory harassment. AudiologyOnline requires its presenters to refrain from use of derogatory or disparaging language and other forms of expression that insults persons on the basis of race, ethnicity, national origin, ancestry, citizenship, religion, creed, gender, sexual orientation, marital status, age, disability, or veteran status.

Presenter acknowledges and agrees that AudiologyOnline provides a transcript with all courses for the purpose of communication accessibility in order to be compliant with the Americans With Disabilities Act.

No Waiver: No failure or delay by AudiologyOnline in exercising any right, power or privilege given by any provision of this Agreement shall operate as a waiver of the provision. Additionally, no single or partial exercise of any right, power or privilege shall preclude any other or further exercise of that or any other right, power or privilege.

Severability: If any part of this Agreement is found to be prohibited by law, the remainder shall remain valid and enforceable.

Successors and Assigns: AudiologyOnline, without the Presenter's consent, may transfer or assign any of its rights and obligations under this Agreement.

ENTIRE AGREEMENT: The Presenter acknowledges that he/she has read this Agreement, understands it and agrees to be bound by its terms and conditions. Further, the Presenter agrees that this Agreement and its attachments constitute the complete and exclusive agreement between the parties with respect to the matter contained herein, and that such Agreement supersedes and replaces all other documents including, without limitation, oral or written agreements and all other communications between the parties as of the date written above. Any changes to the Additional Terms and Conditions in this agreement without the prior express written consent of AudiologyOnline shall render this entire agreement null and void.

Date: 2024.26.04

