

**National Workshop on  
Recent Trends in Assessment and Management of Vestibular Disorders**

**(Approved by Rehabilitation Council of India as Continuing Rehabilitative Education)**

**Organized by:** Bharati Vidyapeeth (Deemed to be University) School of Audiology & Speech Language Pathology, Pune

**Duration:** 17<sup>th</sup> and 18<sup>th</sup> October 2024 (2 Days)

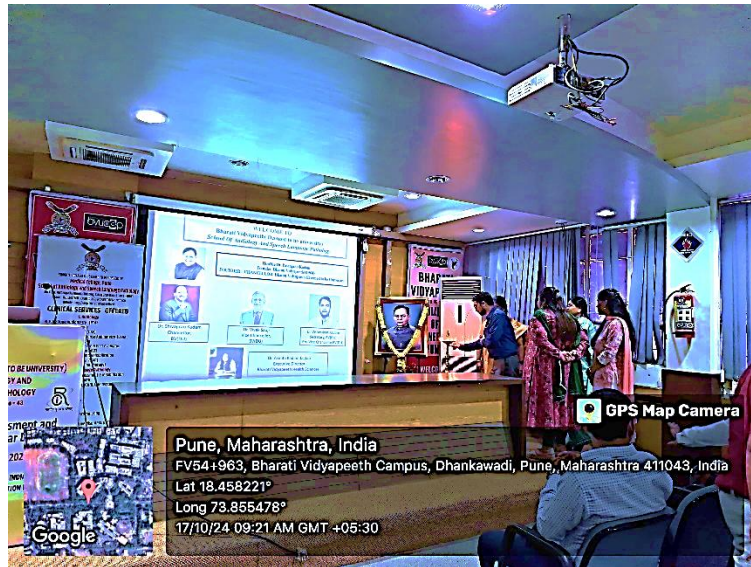
**Total Participants:** 78 participants (60 RCI registered professionals)

A national workshop on ‘Recent Trends in Assessment and Management of Vestibular Disorders’ approved as Continuing Rehabilitation Education (CRE) by Rehabilitation Council of India (RCI) (Ref:RCI Reg No: 24091115041041) was conducted over two days. The workshop aimed to enhance the knowledge and skills of audiologists in the field of vestibular assessments and rehabilitation. The sessions included scientific presentations, practical demonstrations, and case discussions, enabling participants to gain insights into advanced diagnostic techniques and rehabilitation strategies.

The workshop featured a series of sessions covering both theoretical concepts and practical demonstrations. Expert resource persons, including professionals from the fields of Audiology, ENT, Neurology, and Psychiatry, shared their expertise on topics such as vestibular reflexes, screening tests, video-nystagmography (VNG), video head impulse test (vHIT), and vestibular rehabilitation strategies. Program schedule is attached in Annexure 1.

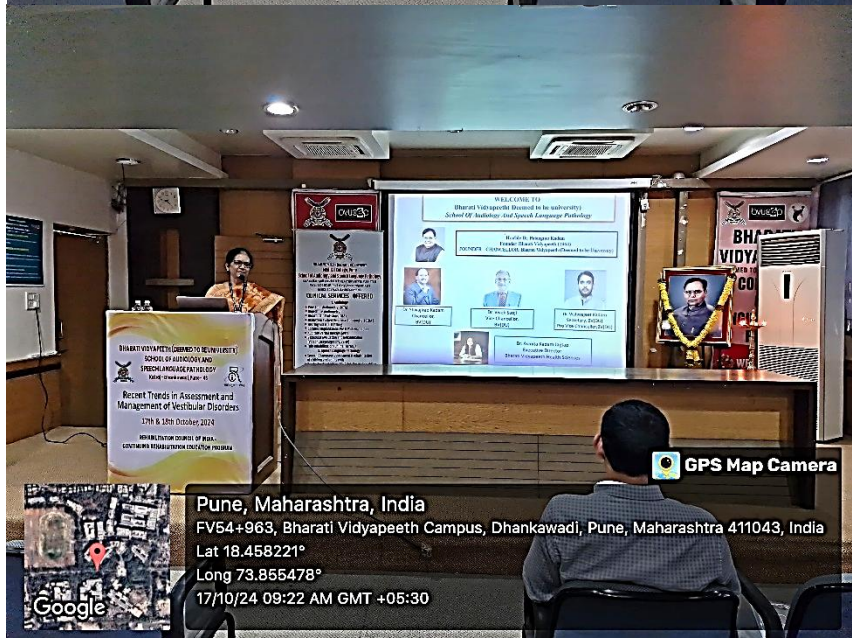
Practical demonstration sessions provided participants with the opportunity to gain hands-on experience, particularly in the use of Video Head Impulse Testing (vHIT), Vestibular Evoked Myogenic Potentials (VEMP), and postural balance assessments. The integration of practical and theoretical knowledge aimed at enhancing the competencies of the participants in diagnosing and managing vestibular disorders effectively.

The program started with seeking blessing from the almighty by lighting of the lamp and floral tribute to Hon’ble Founder Chancellor, Dr. Patangrao Kadam by Dr. C. S. Vanaja, Principal, SASLP; Dr. Sharda Sarda, Prof & HOD, Audiology Dept, and the core committee members of the workshop.



### Lighting of the lamp and tribute to Hon'ble Founder Chancellor

The program was then followed by welcome address by Dr. C.S.Vanaja, Principal. BV(DU) SASLP and overview of the workshop by Dr..Sharda Sarada, HOD, Dept of Audiology. The workshop was anchored by Ms.Kristi Kaveri Dutta, Asst. Prof. in Audiology on Day I and MS. Rucha Vivek, Asst.Prof in Audiology on Day 2.



### Learning Outcomes of the Workshop:

- Participants gained a comprehensive understanding of peripheral and central vestibular disorders, along with effective screening and assessment techniques.
- The workshop provided hands-on experience with vestibular diagnostic tools such as VNG, vHIT, and VEMP.
- Emphasis was placed on vestibular rehabilitation methods to improve patient outcomes and quality of life.
- Interactive discussions and case presentations allowed for deeper insights into complex cases and their management.

### ***RECENT TRENDS IN ASSESSMENT AND MANAGEMENT OF VESTIBULAR DISORDERS***

#### **Program Schedule**

	<b>DAY 1</b>	
<b>Time</b>	<b>Topic</b>	<b>Resource person</b>
8.30 am to 9.00 am	Registration	
9.00 am to 9:15 am	Lighting of the lamp and Overview of the workshop	
9:15 am to 10:00 am	Vestibular reflexes and screening tests for vestibular disorders	Dr. C.S. Vanaja Prof & Principal, BV(DU) SASLP
10:00 am to 10.45 am	Overview of peripheral vestibular disorders	Dr. Gauri Belsare ENT Surgeon & Hon. Director, BV(DU) SASLP
10:45 am to 11:30 am	Understanding Dangerous Vertigo beyond the ear: Central Vestibular Disorders	Dr. Sudhir Kothari HOD, Neurology, Poona Hospital & Research Centre
11:30 am to 11.45 am	<b>Tea Break</b>	
11.45 am to 12.30 pm	Assessment of otolith organs and its reflexes: VEMP (o, c & m)	Mr. Anuj Kumar Neupune Asst. Professor, BV(DU) SASLP
12.30 pm to 1:15 pm	Video-Nystagmography (VNG): Diagnosis of vestibular disorders	Dr. Sharda Sarda Prof & HOD, BV(DU) SASLP
1.15 pm to 2.00 pm	<b>LUNCH BREAK</b>	

2.00 pm to 3.00 pm	Demonstration of Video-nystagmography	Mr. Sahil A Shaikh Audiologist Grade I, BV(DU) SASLP
3:00 pm to 4:00 pm	Test procedure of cervical vestibular evoked myogenic potential (cVEMP) & ocular vestibular evoked myogenic potential (oVEMP)	Ms. Rucha Vivek Asst. Professor, BV(DU) SASLP & Mrs. Kalyani Ghate Asst. Professor, BV(DU) SASLP
4:00pm to 4:30pm	High Tea	

<b>DAY 2</b>		
<b>Time</b>	<b>Topic</b>	<b>Resource person</b>
9. 00 am to 9.45 am	Video Head Impulse test for differential diagnosis of vestibular disorders	Dr. Sujeet Kumar Sinha Assoc. Professor in Audiology All India Institute of Speech & Hearing, Mysuru
9.45 am to 11.15 am	Assessment of Postural Balance & Cognitive aspects related to Vestibular Disorders	Ms. Nikita Nanavati Assoc. Professor BV(DU) SASLP & Dr. Jyoti Shetty, Prof & HOD Dept. of Psychiatry, Bharati Hospital and Research Centre
11.30 to 11.45 am	<b>Tea Break</b>	
11.45 am to 12.30 pm	Vestibular Rehabilitation & Quality of life in persons with vestibular disorders	Ms. Kristi Kaveri Dutta Asst. Professor BV(DU) SASLP
12.30 pm to 1.00 pm	Atypical cases presentations on vHIT assessment	Dr. Sujeet Kumar Sinha Assoc. Professor in Audiology All India Institute of Speech and Hearing, Mysuru
1.00 pm to 2.00 pm	<b>LUNCH BREAK</b>	
2.00 pm to 2.45 pm	Demonstration of mVEMP	Ms. Madhuri Bhogade Asst. Professor in Audiology BV(DU) SASLP

p2.45 pm to 3.30 pm	Test Procedure & interpretation of Video Head Impulse test	Mr. Sahil Shaikh Audiologist Grade I BV(DU) SASLP
3.30 pm to 4.00 pm	Demonstration of Bedside screening & Rehabilitation strategies	Ms. Kristi Kaveri Dutta, Asst. Professor, BV(DU) SASLP & Mrs. Kalyani Ghate Asst. Professor, BV(DU) SASLP
4.00 pm to 5.00 pm	<b>High Tea and Valedictory Function</b>	

## Day 1: Overview of Sessions

### 1. Vestibular reflexes and tests for screening vestibular disorders

*Resource Person:* Dr. C.S. Vanaja, Prof & Principal, BV(DU) SASLP

The session covered the basics of vestibular reflexes and various screening methods for detecting vestibular dysfunctions.





## 2. Overview of Peripheral Vestibular Disorders

*Resource Person:* Dr. Gauri Belsare, ENT Surgeon & Hon. Director, BV(DU) SASLP

The session focused on identifying and managing disorders affecting the peripheral vestibular system.



## 3. Understanding dangerous vertigo beyond the ear: Central Vestibular Disorders

*Resource Person:* Dr. Sudhir Kothari, HOD, Neurology, Poona Hospital & Research Centre

Dr. Kothari discussed the central causes of vertigo and their differentiation from peripheral vestibular issues.



**4. Assessment of otolith organs and reflexes: Vestibular Evoked Myogenic Potentials (ocular, cervical & myogenic)**

*Resource Person:* Mr. Anuj Kumar Neupune, Asst. Professor, BV(DU) SASLP

This session provided insights into the testing and interpretation of Vestibular Evoked Myogenic Potentials (VEMP) for evaluating functioning of otolith organs.





5. **Video-Nystagmography (VNG) in diagnosis of vestibular disorders**

*Resource Person:* Dr. Sharda Sarada, Prof & HOD, BV(DU) SASLP

A detailed overview of using VNG for the diagnosis of various vestibular disorders was discussed in this session.

6. **Demonstration of Video-Nystagmography**

*Resource Person:* Mr. Sahil A Shaikh, Audiologist Grade I, BV(DU) SASLP

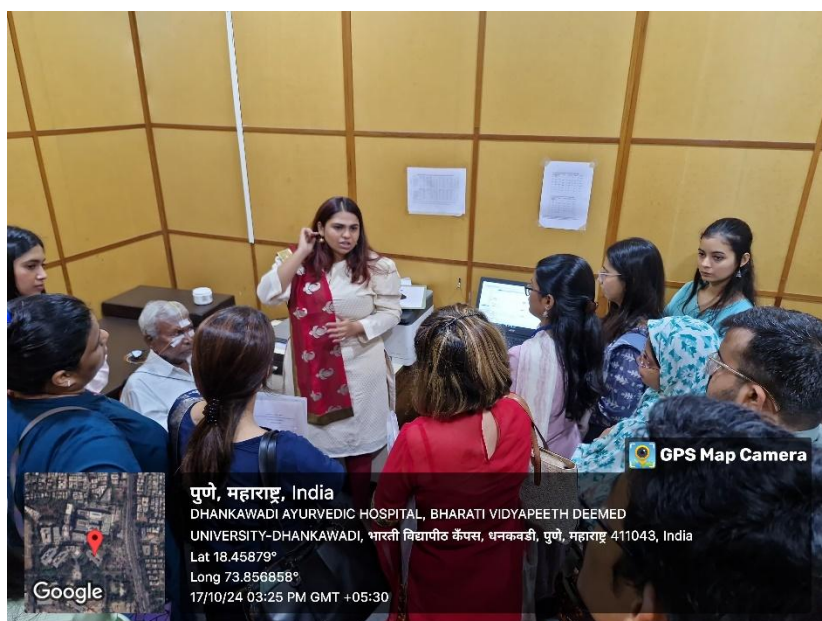
Practical demonstration of the VNG procedure was carried out and its application in clinical settings were discussed.



7. **Test Procedure of cVEMP & oVEMP**

*Resource Persons:* Ms. Rucha Vivek & Mrs. Kalyani Ghate, Asst. Professors, BV(DU) SASLP

The session provided a step-by-step guide for conducting cVEMP and oVEMP tests.



Day 1 Group Photo with all the attendees of the workshop

## Day 2: Overview of Sessions

### 1. Video Head Impulse Test (vHIT) for differential diagnosis of vestibular disorders

*Resource Person:* Dr. Sujeet Kumar Sinha, Assoc. Professor in Audiology, AIISH, Mysuru

Dr. Sujeet Kumar Sinha discussed the role of vHIT in diagnosing vestibular disorders through the evaluation of the vestibulo-ocular reflex.



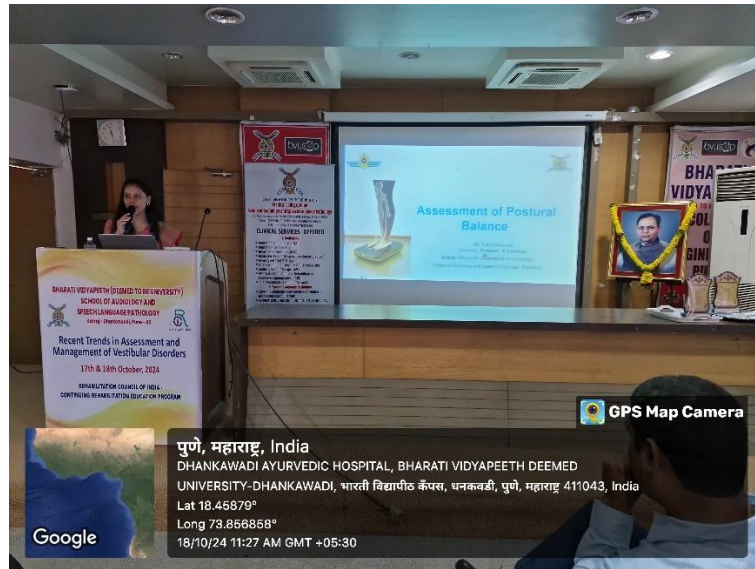
## 2. Assessment of postural balance and cognitive aspects related to vestibular disorders

*Resource Persons:* Ms. Nikita Nanavati, Assoc. Professor, BV(DU) SASLP and Dr. Jyoti Shetty, Prof & HOD, Psychiatry, Bharati Hospital

Dr. Jyoti Shetty discussed the interconnection between vestibular function, balance, and cognitive processing. Ms. Nikita Nanavati oriented the delegates on assessment postural balance and management of balance disorders.







### 3. Vestibular Rehabilitation and Quality of Life of persons with Vestibular Disorders

*Resource Person:* Ms. Kristi Kaveri Dutta, Asst. Professor, BV(DU) SASLP  
 Focused on the rehabilitation strategies to improve the quality of life in patients with vestibular impairments.

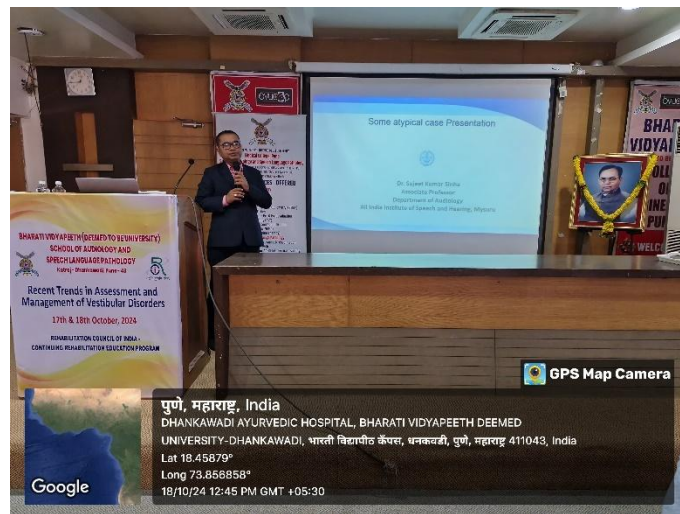


### 4. Atypical Case Presentations on vHIT Assessment

*Resource Person:* Dr. Sujeet Kumar Sinha, Assoc. Professor in Audiology, AIISH,

Mysuru, Dr. Sujeet Siha discussed the challenging case studies highlighting the utility of vHIT in clinical diagnosis.

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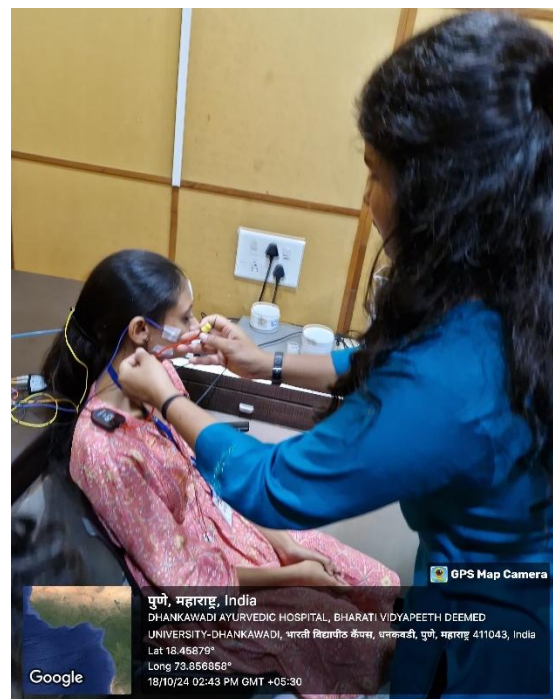
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## 6. Demonstration of mVEMP

*Resource Person:* Ms. Madhuri Bhogade, Asst. Professor in Audiology, BV(DU)

SASLP

In this session hands-on demonstrating the test procedure for mVEMP.





## 7. Demonstration of Video Head Impulse Test

*Resource Person:* Mr. Sahil Shaikh, Audiologist Grade I, BV(DU) SASLP  
Mr Sahil demonstrated vHIT and discussed practical aspects of testing and data interpretation.



## 8. Demonstration of Bedside Screening & Rehabilitation Strategies

*Resource Persons:* Ms. Kristi Kaveri Dutta & Mrs. Kalyani Ghate, Asst. Professors, BV(DU)SASLP

Presented practical strategies for bedside vestibular screening and rehabilitation techniques were discussed.



Day 2 Group Photo with all the attendees of the workshop

## Feedback and Conclusion

Vote of thanks was given by Mr. Anuj Kumar Neupane, Asst Prof in Audiology.



The workshop was well-received by the participants, who appreciated the in-depth knowledge shared by the experts and the practical demonstrations provided. The sessions were interactive, and the resource persons addressed various queries related to vestibular assessment and management. This workshop contributed significantly to the Continuing Rehabilitation Education (CRE) needs of the professionals. The program ended with a valedictory function where certificates of participation were distributed to all attendees, fulfilling the CRE requirements as mandated by the Rehabilitation Council of India.

### Evaluation Sheet

#### Day 1 Post-Test

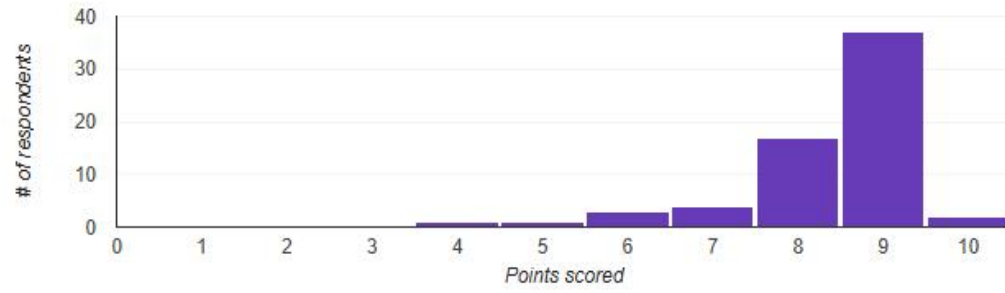
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**Average**  
8.37 / 10 points

**Median**  
9 / 10 points

**Range**  
4 - 10 points

**Total points distribution**



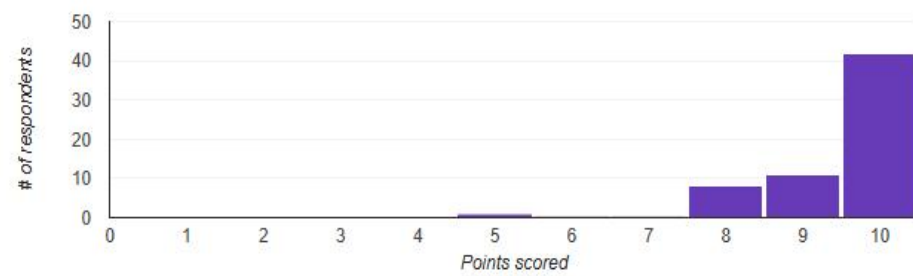
### **Day 2 Post-Test**

**Average**  
9.48 / 10 points

**Median**  
10 / 10 points

**Range**  
5 - 10 points

**Total points distribution**



The post-test was conducted on both the days of the workshop. Hereby attached are the post tests questions of both the days.

**Day 1: Post-test questions**

1. Which of the following is most sensitive for identifying Vestibular disorders?
2. Which of the following is sensitive to responds to translational movement in horizontal plane?
3. Most common peripheral vestibular disorder is
4. Vestibular neuronitis is usually because of
5. Chronic dizziness and imbalance can be caused by all of the following EXCEPT:
6. When does nystagmus suggest a central cause rather than vestibular neuritis?
7. The eye should be elevated by an angle _____ for recoding of oVEMP
8. Vestibular evoked myogenic potentials assess:
9. _____ of the test is known for test of peripheral pathology
10. _____ of the following test is sensitive for diagnosis of BPPV of posterior canal

**Day 2: Post-test questions**

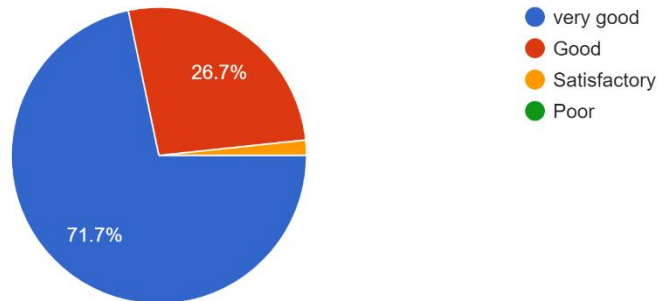
1. The parameter that indicates how quickly the Center of Pressure (CoP) moves during a postural stability test is known as:
2. When conducting a static posturography assessment on a foam surface-eyes closed condition, which sensory system's reliance is most likely being tested?
3. Chronic vestibular dysfunction can cause
4. Cognition refers to mental processes such as
5. What is the primary goal of habituation exercises in VRT?
6. Which exercise helps patients keep their vision steady when moving their head?
7. Video head impulses test assesses?
8. Which among the following equipment is portable
9. In Meniere's disease which of the following do you expect?
10. The head impulses should be given at a minimum speed of

**Feedback of the workshop from delegates**



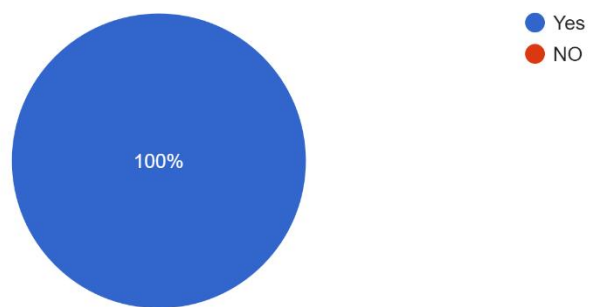
How would you rate the overall experience?

60 responses



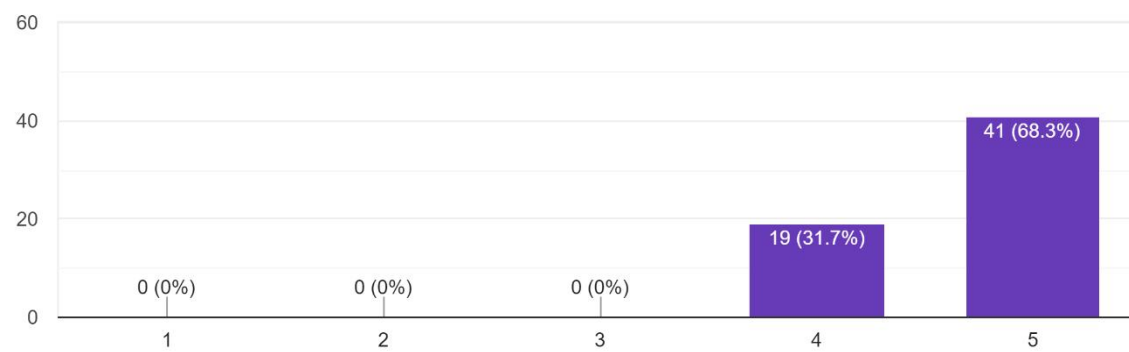
Did the workshop cover topics that were relevant to your interests and need

60 responses



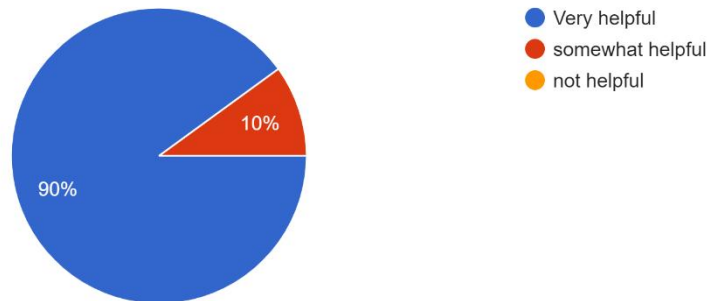
How would you rate the knowledge and expertise of the presenters?

60 responses



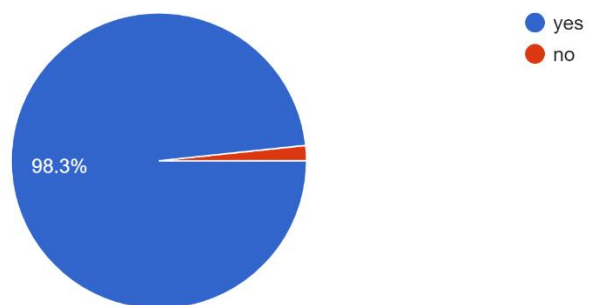
Where the workshop resource materials helpful?

60 responses



Where the concepts explained in a way that was easy to understand?

60 responses



Did you feel that the workshop was well-paced in terms of management?

60 responses

