



Sri Lakshmi Narayana Institute of Medical Sciences

Date 02/01/2018

From
Dr.K.R.Jothikumar,
Professor and Head,
otorhinolaryngology,
SLIMS
Bharath Institute of Higher Education and Research,
Puducherry.

To
The Dean,
SLIMS
Bharath Institute of Higher Education and Research,
Puducherry.

Sub: Permission to conduct value-added course: : Hands on training on Hearing Evaluation Using Impedance Audiometry reg.

Dear Sir,

With reference to the subject mentioned above, the department proposes to conduct a value-added course titled: Simulation Based Training In Audiology on Jan 2018 to April 2018. We solicit your kind permission for the same.

Kind Regards

Dr.K.R. Jothikumar

FOR THE USE OF DEANS OFFICE

Names of Committee members for evaluating the course:

The Dean:

The HOD:

The Expert:

The committee has discussed about the course and is approved.

Dean 

(Sign&Seal)

DEAN
Prof.K.BALAGURUNATHAN,M.S
(General surgeon)
SRI LAKSHMI NARAYANA
INSTITUTE OF MEDICAL SCIENCES
OSUDU PONDICHERY


Dr. R. VENKATARAMANAN, M.D.
Reg. No. 72549
Professor ENT
Sri Lakshmi Narayana Institute of Medical Sciences
Osudu, Kudalpakam, Puducherry-605 002

Subject expert
(Sign & Seal)


Seal & Signature of the HOD
PROFESSOR & HOD
DEPARTMENT OF ENT
Sri Lakshmi Narayana Institute of Medical Sciences
PONDICHERY - 605 002



OFFICE OF THE DEAN

Sri Lakshmi Narayana Institute of Medical Sciences

OSUDU, AGARAM VILLAGE, VILLIANUR COMMUNE, KUDAPAKKAM POST,
PUDUCHERRY - 605 502.

[Recognised by Medical Council of India, Ministry of Health letter No. U/12012/249/2005-ME (P-II) dt. 11/07/2011]

[Affiliated to Bharath University, Chennai - TN]

Ref. No. SLIMS/Dean Off/VAC/024

Date:03/01/18

From

The Dean
Sri Lakshmi Narayana Institute of Medical sciences,
Pondicherry – 605502

To

The Registrar,
Bharath Institute of Higher Education and Research,
Chennai - 600073.

Respected Sir

Sub: Request for permission and approval of Syllabus for certificate course (Value Added course) for the academic year 2017-18 - Reg
Ref: Requesting letter received from Departments

With reference to the above, herewith forwarding the proposed list of Value-added courses for necessary permission and approval of syllabus to conduct the same.

This is for your kind information and needful action.

Thankingyou

Yours faithfully

[DEAN]

DEAN
Prof.K.BALAGURUNATHAN,M.S
(General surgeon)
SRI LAKSHMI NARAYANA
INSTITUTE OF MEDICAL SCIENCES
OSUDU PONDICHERRY

Encl's:

1. Requesting letter received from department
2. Syllabus of thecourse
3. Details of faculty handlingcourse

**Sri Lakshmi Narayana Institute of Medical Sciences,
Puducherry**

**VALUE ADDED COURSE : Hands on training on Hearing Evaluation Using
Impedance Audiometry**

COURSE CO-ORDINATOR DETAILS

Faculty Name: Dr. K.Venkataramanan

Email ID:entslims@gmail.com



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

Ref. No. BHIER/ VAC/B-02

Date:05.01.2018

From

The Registrar,
Bharath Institute of Higher Education and Research,
Chennai - 600073.

To

The Dean
Sri Lakshmi Narayana Institute of Medical sciences,
Pondicherry – 605502

Sir / Madam,

Sub: Approval of Syllabus to conduct certificate course (Value Added course) for the academic year 2017-2018 – Reg.

Ref: Ref. No. SLIMS/Dean Off/VAC /024 Dated: 03.01.2018

With reference to the above, it is to inform that the proposal submitted to conduct Value Added Course has been accepted and approved by BIHER, council meeting. List of the VAC are mentioned below for the academic year 2017– 2018. The abstract of the VAC course completion detail should be submitted to the Registrar office.

Thanking you

Yours faithfully


REGISTRAR



OFFICE OF THE DEAN

Sri Lakshmi Narayana Institute of Medical Sciences

OSUDU, AGARAM VILLAGE, VILLIANUR COMMUNE, KUDAPAKKAM POST,
PUDUCHERRY - 605 502.

[Recognised by Medical Council of India, Ministry of Health letter No. U/12012/249/2005-ME (P-II) dt. 11/07/2011]
[Affiliated to Bharath University, Chennai - TN]

Circular

07/01/2018

Sub: Organising Value-added Course: Hands on training on Hearing Evaluation Using Impedance Audiometry **reg.**

With reference to the above mentioned subject, it is to bring to your notice that SLIMS, **Bharath Institute of Higher Education and Research**, is organising “**Hands on training on Hearing Evaluation Using Impedance Audiometry**”. The course content and registration form is enclosed below.

The application must reach the institution along with all the necessary documents as mentioned. The hard copy of the application should be sent to the institution by registered/ speed post only so as to reach on or before 15/01/2017. Applications received after the mentioned date shall not be entertained under any circumstances.

DEAN

DEAN
Prof.K.BALAGURUNATHAN, M.S
(General surgeon)
SRI LAKSHMI NARAYANA
INSTITUTE OF MEDICAL SCIENCES
OSUDU PONDICHERRY

Encl: Copy of Course content

VALUE ADDED COURSE

1. Name of the programme & Code

Hands on training on Hearing Evaluation Using Impedance Audiometry–
A value added course for the medical students.
& ENT 06

2. Duration & Period

30 hrs & Jan 2018-April 2018

3. Information Brochure and Course Content of Value Added Courses

Enclosed as Annexure- I

4. List of students enrolled

Enclosed as Annexure- II

5. Assessment procedures:

Pre test and post test which includes 10 mcqs - *Enclosed as Annexure- III*

6. Certificate model

Enclosed as Annexure- IV

7. No. of times offered during the same year:

1 time Jan 2018- April 2018

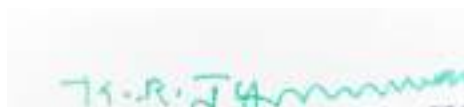
8. Year of discontinuation:2018

9. Summary report of each program year-wise

Value Added Course- Jan 2018- April 2018					
Sl. No	Course Code	Course Name	Resource Persons	Target Students	Strength & Year
1	ENT 06	Hands on training on Hearing Evaluation Using Impedance Audiometry	1.Dr.Venkataramanm 2. Dr. Sreedhar.B 3.Dr. kalaiarasi.R	3 rd year MBBS students	15 students & 2018

10. Course FeedBack

Enclosed as Annexure- V



RESOURCEPERSON

1. Dr.K.R.Jothikumar
2. Dr.B.Sreedhar



COORDINATOR

Dr.K.Venkataramanan

COURSE PROPOSAL

1. NAME OF THE PROGRAMME

Hands on training on Hearing Evaluation Using Impedance Audiometry– A value added course for the medical students.

2. AIM

To provide hands on training to the students on Hearing Evaluation Using Impedance Audiometry

3. OBJECTIVES

a) To teach the students how to use Impedance audiometry for evaluation of hearing and interpretation of the graph pattern

4. METHODOLOGY

Students who are interested in participating in value added course are enrolled and the course is conducted for them during the non college hours for a period of 30 hours from Jan 2017 – June 2017 . This course is conducted every 6 months.

Course Audience: 3rd year MBBS students

Course Coordinator: Dr.K.Venkataramanan

Course Faculties with Qualification and Designation:**1.Dr.K.R. jothikumar****2.Dr. Sreedhar.B****3.Dr. Kalaiarasi.R****Schedule followed during the course**

No	Topic	Title	Duration	Date and time
1	Hands on training on Hearing Evaluation Using Impedance Audiometry	Introduction on impedance audiometry	3 hrs	4pm-7pm(20/1/18)
		Interpretation of tympanogram	3 hrs	4pm-7pm(16/1/18)
		Fallacies of tympanometry test	3 hrs	4pm-7pm(13/2/18)
		ET function test, stapedial reflex test and its principle	3 hrs	4pm-7pm(26/2/18)
		Metz recruitment test and acoustic reflex decay test	3 hrs	4pm-7pm(3/3/18),
		Other uses of acoustic reflex test	3 hrs	4pm-7pm(8/3/18)
		Demonstration of impedance audiometry and interpretation of results	6hrs	4pm-6pm(13/3/18),4pm-6pm(18/3/18),4pm-6pm(25/3/18)
		Hands on training on impedance audiometry and DOPS	6hrs	4pm-6pm(29/3/18),4pm-6pm(4/4/18),4pm-6pm(10/4/18)
		TOTAL	30HRS	

REFERENCE BOOKS: 1) SCOTT BROWN 7th edition

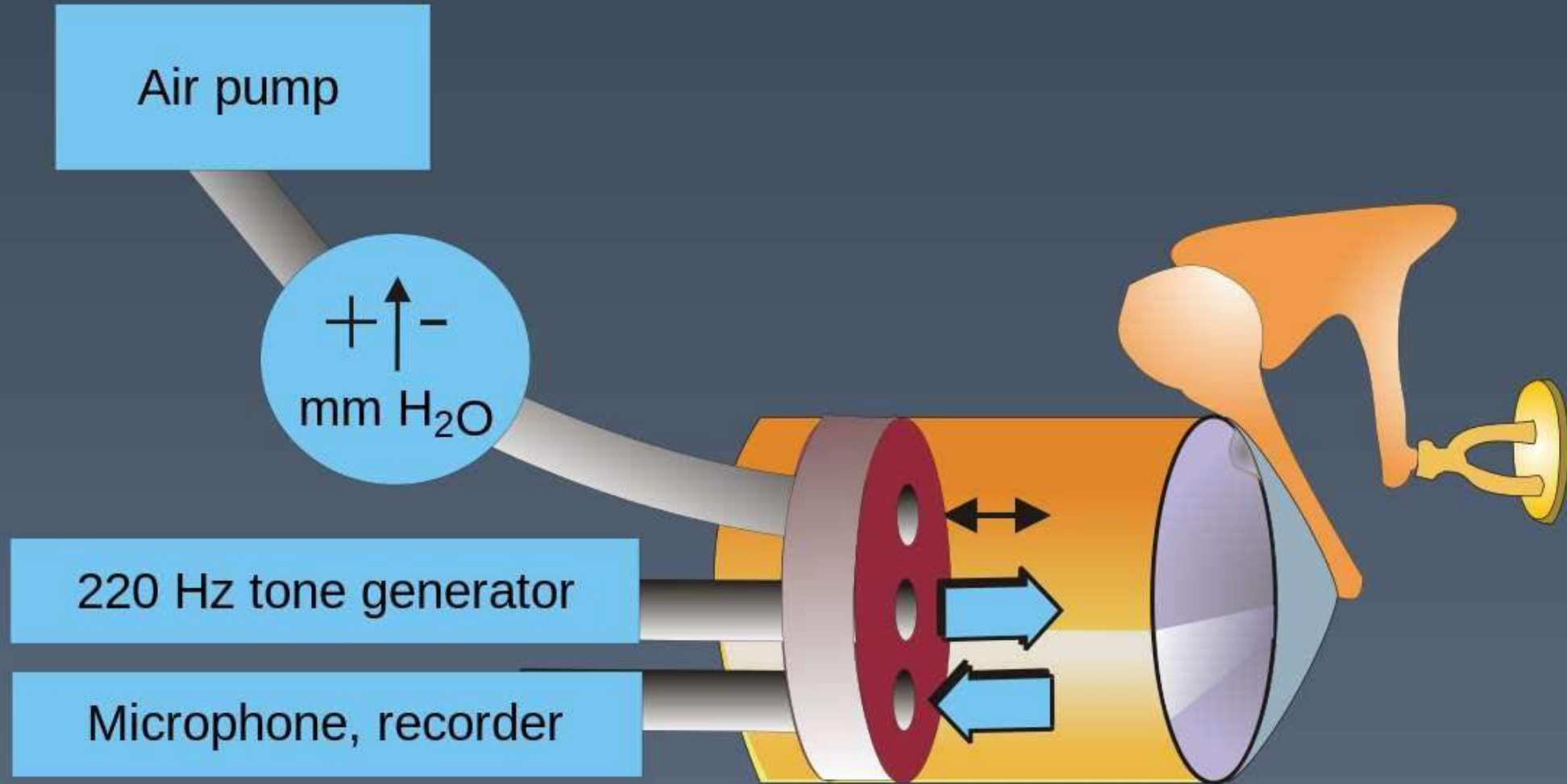
2) ANIRBAN BISWAS 2nd edition

Tympanometry



- This test is a measure of the condition of middle ear with intact tympanic membrane.
- It measures the impedance (resistance) to the flow of sound energy through middle ear **on pressure changes** in the external auditory canal (EAC).
- Objective test
- It is a type of impedance audiometry.

Tympanometry



- The 3rd channel changes the pressure of EAC from + 200 to -400.
- When the pressure of EAC and middle ear becomes equal , maximum mobility of TM happens & therefore max. flow of acoustic energy (sound) occurs to middle ear.

- In tympanometry we measure 2 factors:
 - Compliance (opposite of resistance/ impedance)
 - Middle ear pressure

i) Compliance

- It is the ease of mobility of tympanic membrane.
- The less the impedance (resistance), the more is the compliance.

In any ossicular discontinuity, TM mobility increases

In any ossicular fixation or fluid in middle ear, the compliance is decreased.

ii) Middle ear pressure

- We just keep on changing the pressure of EAC through probe.
- During this process, when the process of EAC matches that of middle ear, d/t resonance, more TM movement occurs.
- For e.g. we found that TM moves max. when pressure of EAC is -200 mm of H₂O, this indicates that middle ear pressure is also -200mm of H₂O.

Significance of middle ear pressure

- The pressure of middle ear is regulated by the Eustachian tube.
- Normal pressure in adult is -50 to +50 mm of H₂O.
- Normal pressure in children is -150 to +50 mm of H₂O.
- If the pressure is negative beyond the normal range, it signifies Eustachian tube blockade.

Cases

1. Reduced compliance, middle ear pressure also negative

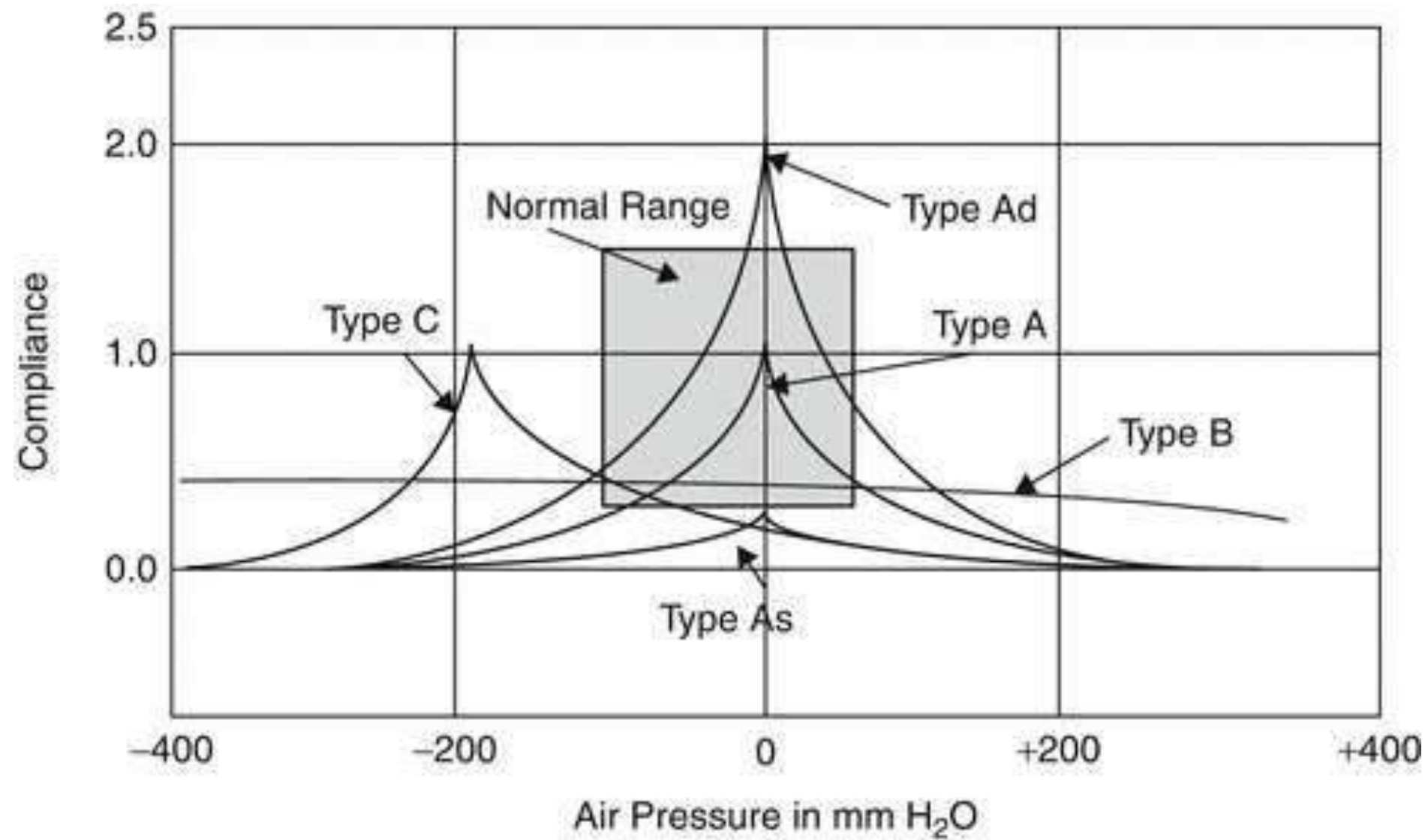
normal



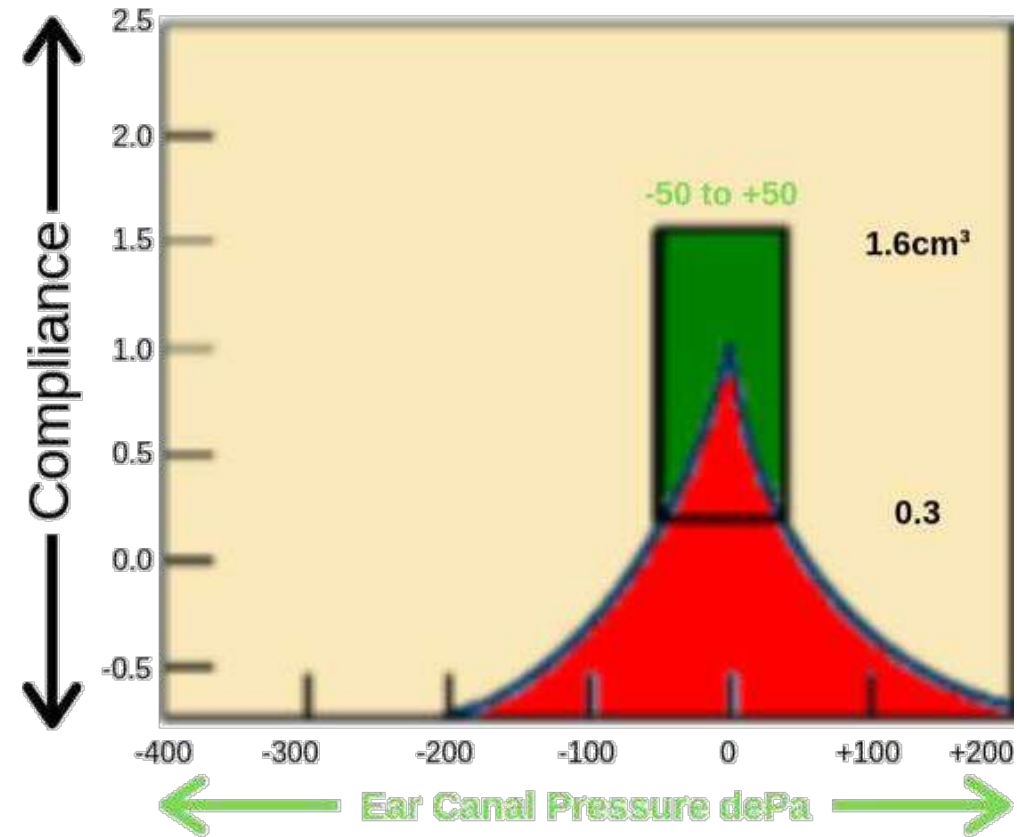
ET is block leading to fluid collection in middle ear,
e.g. in serous otitis media



ET is normal, reduced compliance is d/t ossicular
fixity e.g. in otosclerosis



Type A

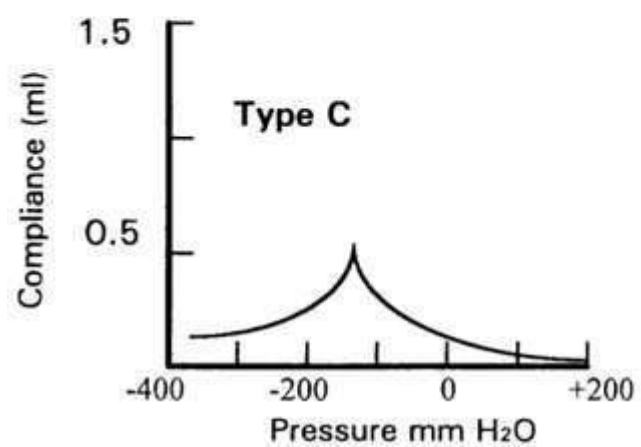
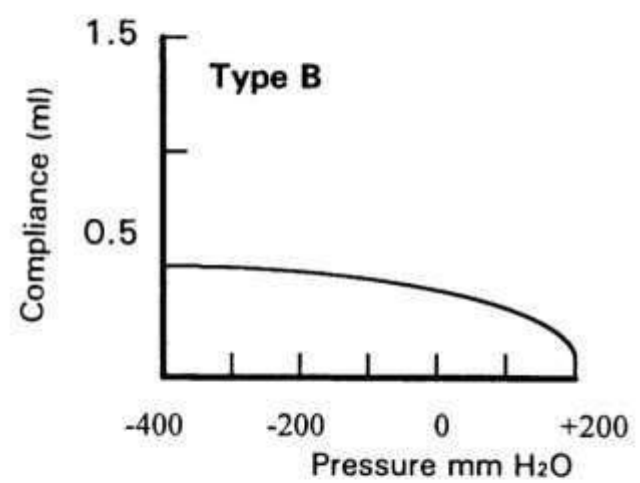
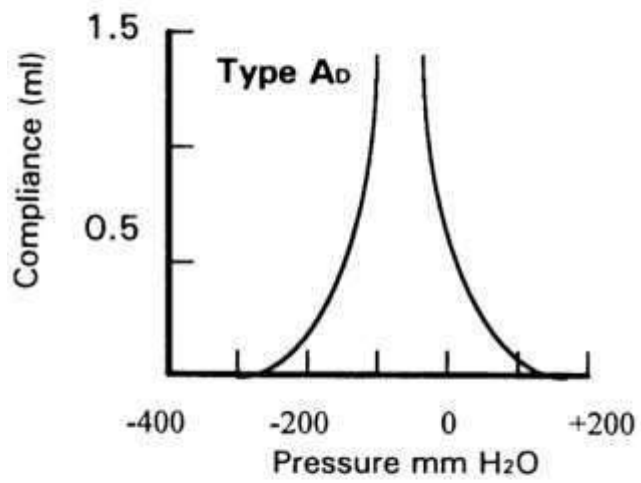
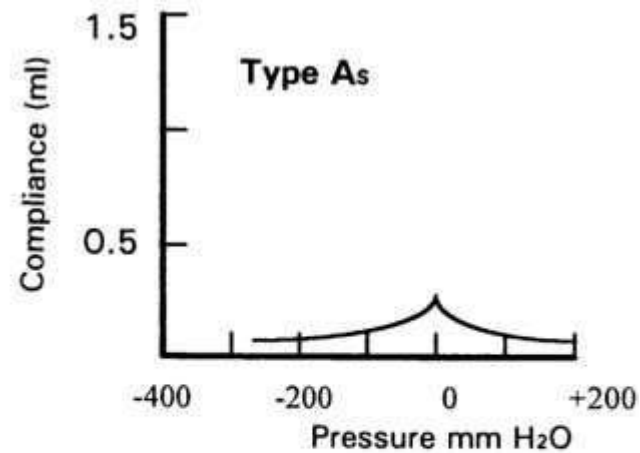
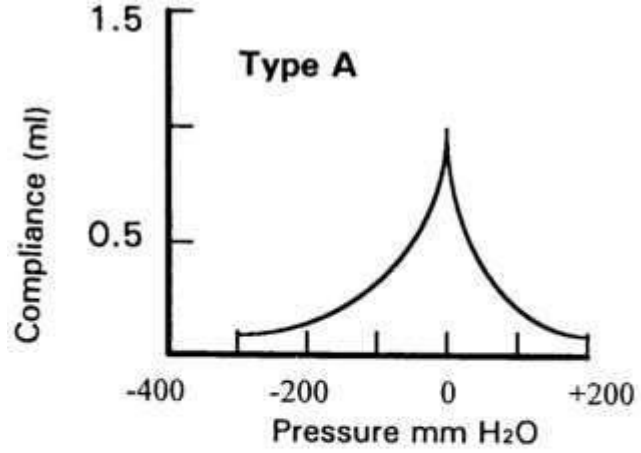


Normal Tympanogram

Ear Canal Volume (ECV) 0.6 to 2.5 cm³

Middle Ear Pressure (MEP) -50 to +50 dePa

Admittance/Compliance 0.3 to 1.6cm³



Type	X axis (middle ear pressure)	Y axis (compliance of TM)	Examples
A	Normal (ET function is normal)	Normal (mobility of TM is normal)	-
As (S - Stiffness)	Normal	decrease	Otosclerosis or any ossicular fixation, tumors of middle ear like glomus jugulare
Ad (D - Discontinuity)	Normal	Increased (TM moves excessively)	Ossicular discontinuity, thin & lax TM, Also in post stapedectomy ear.
C (C - closure)	Negative (ET closure which is of short duration)	Normal (since ET closure is of short time, not enough fluid is collected)	Early stage of ET obstruction (closure)
B (B - blocked)	Negative (ET blocked for prolonged period)	Decreased (d/t collection of secretions/fluid in middle ear). So dome shaped curve.	Serous otitis media & adhesive otitis media (sequelae of SOM)

When the secretions or fluid fill the middle ear cavity completely, leading to no movement of TM, a flat curve results.

Annexure 2
Bharath Institute of Higher Education and Research
SLIMS

1	U15MB250	AARTHI .H
2	U15MB251	ABARNA. M
3	U15MB252	ABINAYA.J
4	U15MB253	ADARSH .S
5	U15MB254	AGILAN .A
6	U15MB255	AKSHAYA .S
7	U15MB256	AKSSHAYA .M.R
8	U15MB257	AMARNATH. S
9	U15MB258	AMUDHESAR .K.M
10	U15MB259	ANANDH.S
11	U15MB260	ARCHITH VIGNESH .B
12	U15MB261	ARJUNBALAJI .A
13	U15MB262	ARUL NIVETHINI V.A
14	U15MB263	ARUL PRINCE. E
15	U15MB265	ARUN PRASAD. K

ANNEXURE 3
SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL
SCIENCES
PUDUCHERRY

TOPIC: Hands on training on Hearing Evaluation Using Impedance Audiometry (ENT 06)
STUDENT NAME:
UNIVERSITY NO:

1. Impedance audiometry is for pathology of
a. External ear b. middle ear
c. inner ear d. mastoid air cell

2. Flat tympanogram seen in
a. ossicular discontinuity b. SOM
c. otosclerosis d. safe CSOM

3. B type tympanogram seen in
a. SOM b. Otosclerosis
c. ossicular discontinuity d. all of the above

4. Impedance audiometry is done using frequency probe of
a. 226 hz b. 550 hz
c. 440hz d. 1000hz

5. Stapedial reflex is mediated by
a. 5th and 7th nerves b. 5th and 8th nerves
c. 6th and 7th nerves d. 7th and 8th nerves

6. Which following assess the resistance in middle ear
a. PTA b. impedance audiometry
c. Caloric test d. BERA

7. Dome shaped tympanogram is found in
a. ossicular discontinuity b. SOM
c. otosclerosis d. middle ear fluid

8. In otogenesis imperfecta the tympanogram is
a. Flat b. non compliance
c. high compliance d. low compliance

9. Ad type tympanogram seen in
a. ossicular discontinuity b. SOM
c. otosclerosis d. CSOM

10. In otosclerosis the type of tympanogram seen is
a. type A b. Type AS
c. Type B d. Type C

PRE TEST

6. which following assess the resistance in middle ear

- a. PTA
- b. impedance audiometry
- c. Caloric test
- d. BERA

7. Dome shaped tympanogram is found in

- a. ossicular discontinuity
- b. SOM
- c. otosclerosis
- d. middle ear fluid

8. In otogenesis imperfecta the tympanogram is

- a. Flat
- b. non compliance
- c. high compliance
- d. low compliance

9. Ad type tympanogram seen in

- a. ossicular discontinuity
- b. SOM
- c. otosclerosis
- d. CSOM

10. In otosclerosis the type of tympanogram seen is

- a. type A
- b. Type AS
- c. Type B
- d. Type C

ANNEXURE 3
SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES
PUDUCHERRY

TOPIC: Hands on training on Hearing Evaluation Using Impedance Audiometry (ENT 06)

STUDENT NAME: Anandh S

UNIVERSITY NO: VISMB259.

(4)

1. impedance audiometry is for pathology of

- a. External ear b. ~~middle ear~~
c. inner ear d. mastoid air cell

2. flat tympanogram seen in

- ~~a. ossicular discontinuity~~ b. SOM
c. otosclerosis d. safe CSOM

3. B type tympanogram seen in

- a. SOM b. ~~Otosclerosis~~
c. ossicular discontinuity d. all of the above

4. impedance audiometry is done using frequency probe of

- a. 226 Hz b. 550 Hz
c. 440 Hz d. ~~1000 Hz~~

5. stapedial reflex is mediated by

- a. 5th and 7th nerves b. 5th and 8th nerves
c. ~~6th and 7th nerves~~ d. 7th and 8th nerves

6. which following assess the resistance in middle ear

- X a. PTA b. impedance audiometry
c. Caloric test d. BERA

7. Dome shaped tympanogram is found in

- X a. ossicular discontinuity b. SOM
c. otosclerosis d. middle ear fluid

8. In otogenesis imperfecta the tympanogram is

- X a. Flat b. non compliance
c. high compliance d. low compliance

9. Ad type tympanogram seen in

- X a. ossicular discontinuity b. SOM
c. otosclerosis d. CSOM

10. In otosclerosis the type of tympanogram seen is

- a. type A b. Type AS
c. Type B d. Type C

ANNEXURE 3
SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES
PUDUCHERRY

TOPIC: Hands on training on Hearing Evaluation Using Impedance Audiometry (ENT 66)

STUDENT NAME: Ahanna M

UNIVERSITY NO: VICMB251

(2)

1. Impedance audiometry is for pathology of

- a. External ear b. middle ear
c. inner ear d. mastoid air cell

2. Flat tympanogram seen in

- X a. ossicular discontinuity b. SOM
c. otosclerosis d. safe CSOM

3. B type tympanogram seen in

- X a. SOM b. Otosclerosis
c. ossicular discontinuity d. all of the above

4. Impedance audiometry is done using frequency probe of

- X a. 226 Hz b. 550 Hz
c. 440 Hz d. 1000 Hz

5. Stapedial reflex is mediated by

- Y a. 5th and 7th nerves b. 5th and 8th nerves
c. 6th and 7th nerves d. 7th and 8th nerves

POST TEST

6

6. which following assess the resistance in middle ear

a. PTA ~~b. Impedance audiometry~~

c. Caloric test d. BERA

7. Dome shaped tympanogram is found in

a. ossicular discontinuity ~~b. SOM~~

c. otosclerosis d. middle ear fluid

8. In otogenesis imperfecta the tympanogram is

a. Flat b. non compliance

~~c. high compliance~~ d. low compliance

9. Ad type tympanogram seen in

~~a. ossicular discontinuity~~ b. SOM

c. otosclerosis d. CSOM

10. In otosclerosis the type of tympanogram seen is

a. type A b. Type AS

~~c. Type B~~ d. Type C

9

ANNEXURE 3

SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES
PUDUCHERRY

TOPIC: Hands on training on Hearing Evaluation Using Impedance Audiometry (ENT 06)

STUDENT NAME: Abarna - M.

UNIVERSITY NO: U15MB251

1. Impedance audiometry is for pathology of

- a. External ear ~~b. middle ear~~
c. inner ear d. mastoid air cell

2. flat tympanogram seen in

- ~~a. ossicular discontinuity~~ b. SOM
c. otosclerosis d. safe CSOM

3. B type tympanogram seen in

- a. SOM ~~b. Otosclerosis~~
c. ossicular discontinuity d. all of the above

4. Impedance audiometry is done using frequency probe of

- ~~a. 226 Hz~~ b. 550 Hz
c. 440 Hz d. 1000 Hz

5. stapedial reflex is mediated by

- ~~a. 5th and 7th nerves~~ ~~b. 5th and 8th nerves~~
c. 6th and 7th nerves d. 7th and 8th nerves

6. which following assess the resistance in middle ear

- a. PTA
- b. Impedance audiometry
- c. Caloric test
- d. BERA

7. Dome shaped tympanogram is found in

- a. ossicular discontinuity
- b. SOM
- c. otosclerosis
- d. middle ear fluid

8. In otogenesis imperfecta the tympanogram is

- a. Flat
- b. low compliance
- c. high compliance
- d. low compliance

9. Ad type tympanogram seen in

- a. ossicular discontinuity
- b. SOM
- c. otosclerosis
- d. CSOM

10. In otosclerosis the type of tympanogram seen is

- a. type A
- b. Type AS
- c. Type B
- d. Type C

ANNEXURE 3
SRI LAKSHMI NARAYANA INSTITUTE OF MEDICAL SCIENCES
PUDUCHERRY

TOPIC: Hands on training on Hearing Evaluation Using Impedance Audiometry (ENT 06)

STUDENT NAME: Arandh S

UNIVERSITY NO: VISMB259.

1. Impedance audiometry is for pathology of

- a. External ear
- ~~b. Middle ear~~
- c. inner ear
- d. mastoid air cell

2. flat tympanogram seen in

- ~~a. ossicular discontinuity~~
- b. SOM
- c. otosclerosis
- d. safe CSOM

3. B type tympanogram seen in

- ~~a. SOM~~
- b. Otosclerosis
- ~~c. ossicular discontinuity~~
- d. all of the above

4. Impedance audiometry is done using frequency probe of

- ~~a. 225 hz~~
- b. 550 hz
- c. 440hz
- d. 1000hz

5. stapedial reflex is mediated by

- ~~a. 5th and 7th nerves~~
- b. 5th and 8th nerves
- c. 6th and 7th nerves
- d. 7th and 8th nerves

ANNEXURE 4

	Sri Lakshmi Narayana Institute of Medical Sciences Affiliated to Bharath Institute of Higher Education & Research (Deemed to be University under section 3 of the UGC Act 1956)	
CERTIFICATE OF MERIT		
<p>This is to certify that _____ has actively participated in the Value Added Course on Hands on training on Hearing Evaluation Using Impedance Audiometry held during Jan 2018 – April 2018 Organized by Sri Lakshmi Narayana Institute of Medical Sciences, Pondicherry- 605 502, India.</p>		
<p>Dr.K.R. Jothikumar RESOURCE PERSON</p>		<p>Dr.R.Venkataramanan COORDINATOR</p>



Sri Lakshmi Narayana Institute of Medical Sciences

Affiliated to Bharath Institute of Higher Education & Research
(Deemed to be University under section 3 of the UGC Act 1956)



CERTIFICATE OF MERIT

This is to certify that Dr.Abinaya.J (U15MB252) has actively participated in the Value Added Course on Hands on training on Hearing Evaluation Using Impedance Audiometry held during Jan 2018 – April 2018 Organized by Sri Lakshmi Narayana Institute of Medical Sciences, Pondicherry- 605 502, India.

Dr.K.R. Jothikumar
RESOURCE PERSON

Dr.R.Venkataramanan
COORDINATOR

Annexure 5
Course/Training Feedback Form
Student Feedback Form

Course Name: Hands on training on Hearing Evaluation Using Impedance Audiometry

Subject Code: **ENT06**

Name of Student: _____ Roll No.: _____

We are constantly looking to improve our classes and deliver the best training to you. Your evaluations, comments and suggestions will help us to improve our performance

Sl. NO	Particulars	1	2	3	4	5
1	Objective of the course is clear					
2	Course contents met with your expectations					
3	Lecturer sequence was well planned					
4	Lectures were clear and easy to understand					
5	Teaching aids were effective					
6	Instructors encourage interaction and were helpful					
7	The level of the course					
8	Overall rating of the course	1	2	3	4	5

** Rating: 5 – Outstanding; 4 - Excellent; 3 – Good; 2– Satisfactory; 1 - Not-Satisfactory*

Suggestions if any:

Course/Training Feedback Form

Student Feedback Form

Course Name: Hands on training on Hearing Evaluation Using Impedance Audiometry

Subject Code: ENT06

Name of Student: ARABE/ATHI S Roll No.: U16 MB-257

We are constantly looking to improve our classes and deliver the best training to you. Your evaluations, comments and suggestions will help us to improve our performance

Sl. NO	Particulars	1	2	3	4	5
1	Objective of the course is clear				✓	
2	Course contents met with your expectations				✓	
3	Lecturer sequence was well planned					✓
4	Lectures were clear and easy to understand				✓	
5	Teaching aids were effective				✓	
6	Instructors encourage interaction and were helpful			✓		
7	The level of the course					✓
8	Overall rating of the course	1	2	3	4	5

* Rating: 5 - Outstanding; 4 - Excellent; 3 - Good; 2 - Satisfactory; 1 - Not-Satisfactory

Suggestions if any:

OVERALL THE LECTURES WERE VERY GOOD

Course/Training Feedback Form

Student Feedback Form

Course Name: Hands on training on Hearing Evaluation Using Impedance Audiometry

Subject Code: ENT06

Name of Student: Prithvi Prasad K Roll No.: U182030526

We are constantly looking to improve our classes and deliver the best training to you. Your evaluations, comments and suggestions will help us to improve our performance

Sl. NO	Particulars	1	2	3	4	5
1	Objective of the course is clear				✓	
2	Course contents met with your expectations			✓		
3	Lecturer sequence was well planned				✓	
4	Lectures were clear and easy to understand				✓	
5	Teaching aids were effective					✓
6	Instructors encourage interaction and were helpful					✓
7	The level of the course					✓
8	Overall rating of the course	1	2	3	4	5

* Rating: 5 - Outstanding; 4 - Excellent; 3 - Good; 2 - Satisfactory; 1 - Not-Satisfactory

Suggestions if any:

THE COURSE WAS GOOD AND HELPFUL.

ANNEXURE 6

Date : 15/4/2018

From
Dr.K.R. Jothikumar,
Dept of Otorhinolaryngology,
SLIMS
Bharath Institute of Higher Education and Research,
Puducherry.

Through Proper Channel

To
The Dean,
SLIMS,
Bharath Institute of Higher Education and Research,
Puducherry.

Sub: Completion of value-added course: Hands on training on Hearing Evaluation Using Impedance Audiometry reg.

Dear Sir,

With reference to the subject mentioned above, the department has conducted the value-added course titled: **Hands on training on Hearing Evaluation Using Impedance Audiometry** on Jan 2018 to April 2018. We solicit your kind action to send certificates for the participants, that is attached with this letter. Also, I am attaching the photographs captured during the conduct of the course.
Kind Regards

Dr.K.R.Jothikumar
<HOD Sign and Seal>



ANNEXURE 6







