Sharing Forum on Disability Awareness 'Supporting Students with Disabilities: the University's Obligations and Experiences'

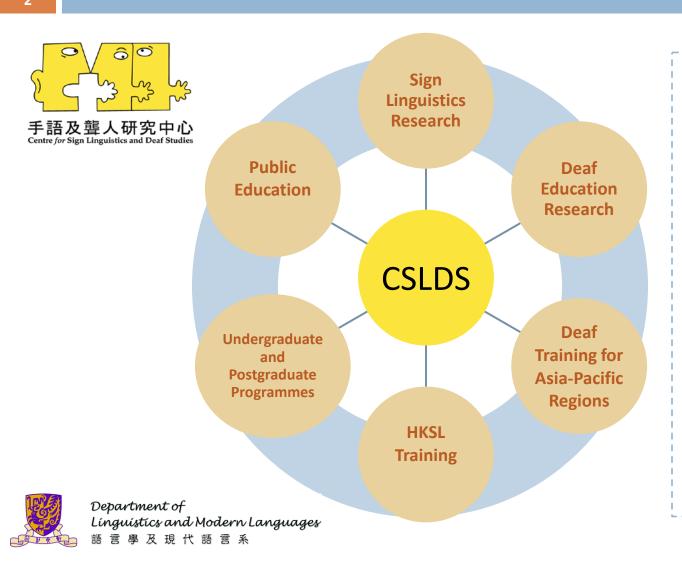
EXPERIENCE IN SUPPORTING THE LEARNING OF STUDENTS WITH HARING IMPAIRMENT

Mr Jafi Lee Yin Fai



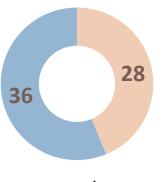
Centre for Sign Linguistics and Deaf Studies,
Department of Linguistics and Modern Languages,
Chinese University of Hong Kong
6 March 2015

Centre for Sign Linguistics and Deaf Studies (CSLDS)



Staff in CSLDS D/hh Staff



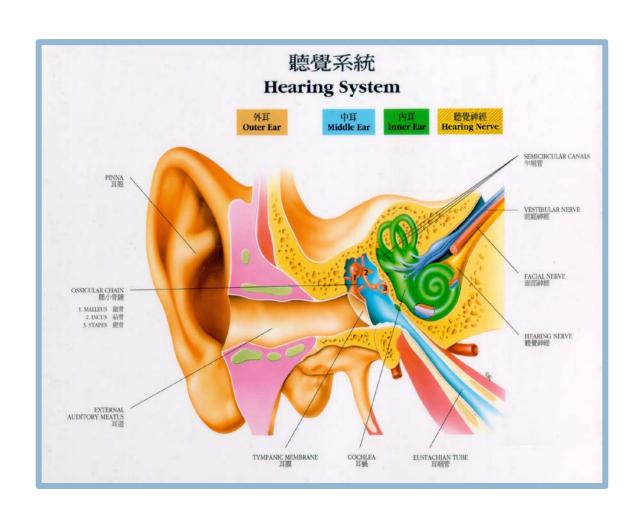


Total: 64

Outline

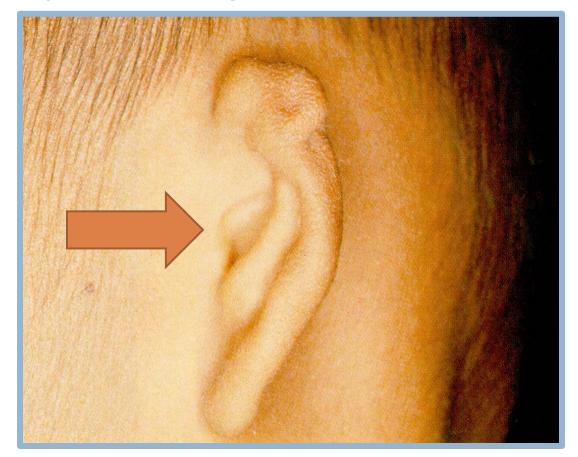
- 1. A quick glance at hearing impairment
- 2. Educational support for students with hearing impairment
 - Experience at CUHK
 - International practices for reference

Hearing Impairment



Problems with the Outer Ear

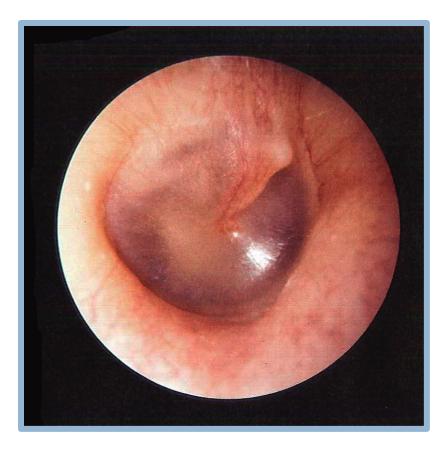
□ Atresia (外耳道閉鎖)



Picture adapted from Hawke & McCombe (1995) Diseases of the Ear. Canada: Manticore Communication Inc.

Problems with the Middle Ear

□ Serious Otitis Media (中耳積水)

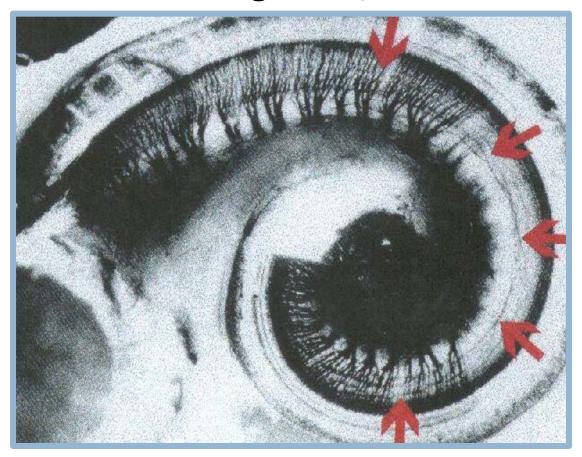




Picture adapted from Hawke & McCombe (1995) Diseases of the Ear. Canada: Manticore Communication Inc.

Problems with the Inner Ear

□ Noise Induced Hearing Loss(噪音性聽力損失)



Picture adapted from Hawke & McCombe (1995) Diseases of the Ear. Canada: Manticore Communication Inc.

Hearing Assessment: Pure Tone Audiometry

□ Testing frequencies 測試頻率:

250Hz

500Hz

1000Hz

2000Hz

4000Hz

8000Hz















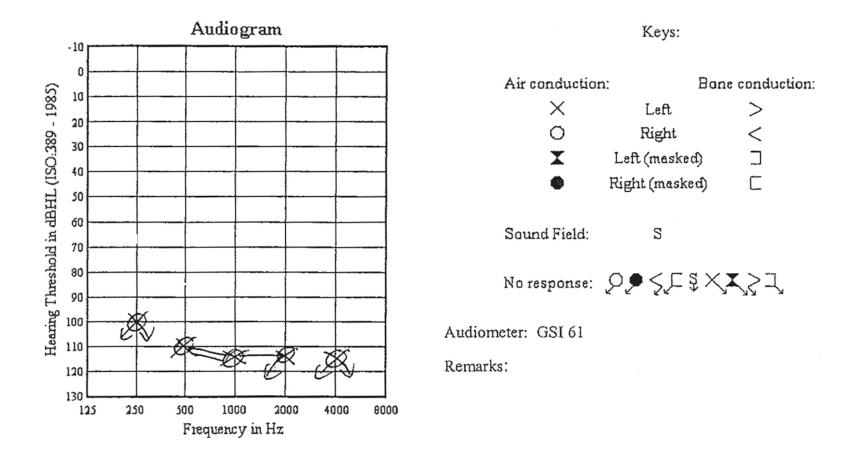
Earphone (聽筒)



Bone Vibrator (骨導振動器)



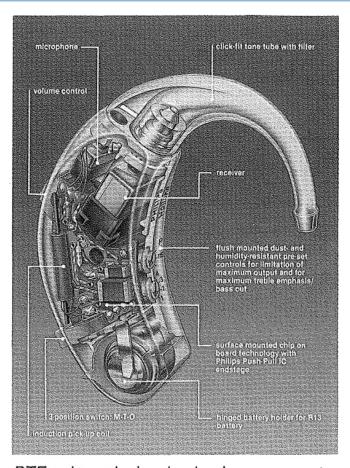
Audiometer (聽力檢查儀)



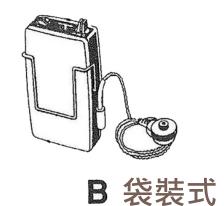
Test Findings:

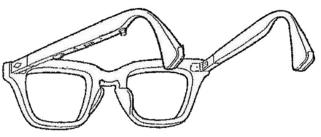
- 1. Fairly reliable results were obtained via Play Audiometry, suggesting bilateral profound hearing impairment.
- 2. Tympanometric findings are within normal limits bilaterally.
- 3. Speech reception improves with amplification and speechreading.
- 4. Expressive speech is defective.

Types of Hearing Aids











C

Types of Hearing Aids



耳內式

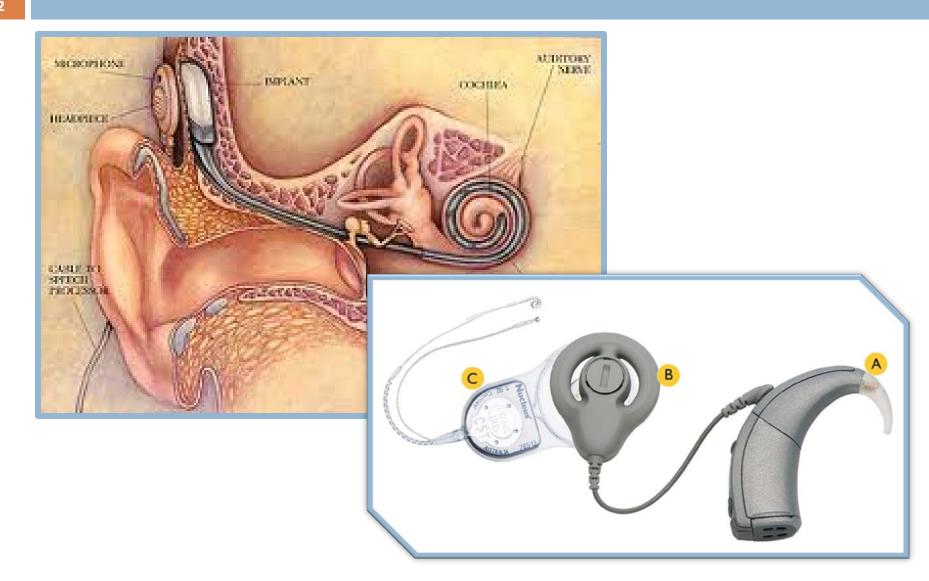


耳道式

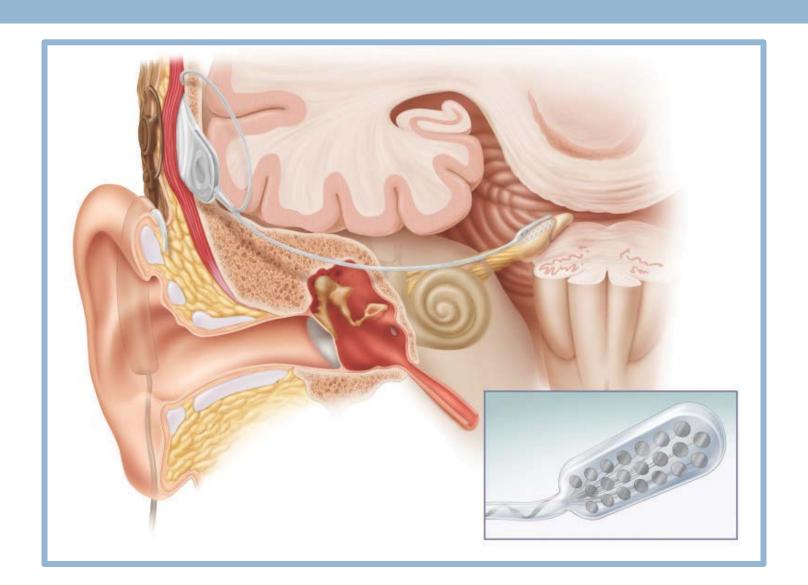


全耳道式

Cochlear Implant



Auditory Brainstem Implant



Communication Barrier Remains

Technology still CANNOT bring NORMAL HEARING to d/hh children



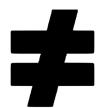
Hearing Aids



Cochlear Implants



Auditory Brainstem Implants



Normal Hearing

Major Difficulties for Students with Hearing Impairment

- Incomplete access to information
 - Effects of hearing technology varies
 - Restricted speech perception ability
 - Limited information got from lip-reading
 - Unable to follow class discussion
 - Insufficient visual clues in class
 - Lack sign language support

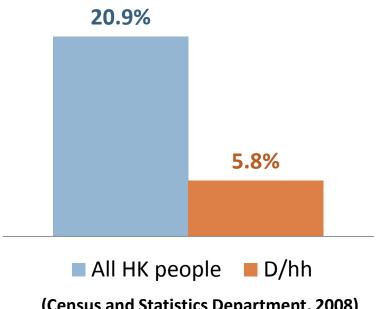
Post-Secondary Education Opportunities in Hong Kong

92,000 Deaf/hard-of-hearing (D/hh) individuals in Hong Kong (Census and Statistics Department of **Hong Kong**, 2008)

 Lower chance of receiving post-secondary education in Hong Kong

□ D/hh: 5.8%

□ All HK people: 20.9%



(Census and Statistics Department, 2008)

Special Education Needs of Students with Hearing Impairment

- Access of information through means the students consider as effective at the specific communication situation
 - written language
 - spoken language (with suitable aid for hearing)
 - signed language (mostly through sign interpretation)
- Respect of their identity or the identification they chose
 - hard-of-hearing/hearing impaired
 - deaf

Sign Interpretation

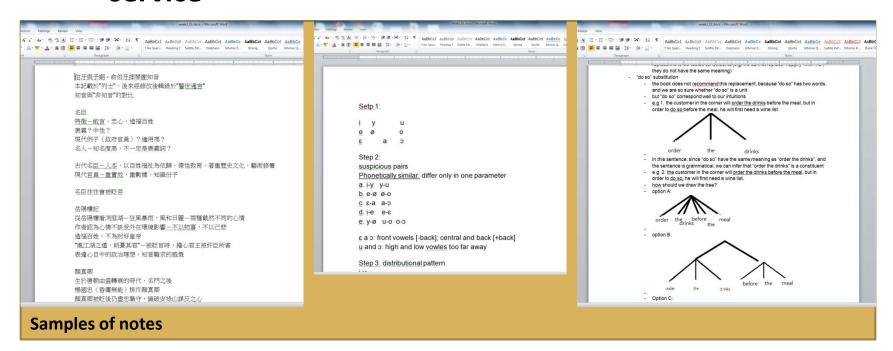
- □ For all classes, group project discussion, assemblies, student activities, etc.
- Research staff at CSLDS are providing the sign interpretation



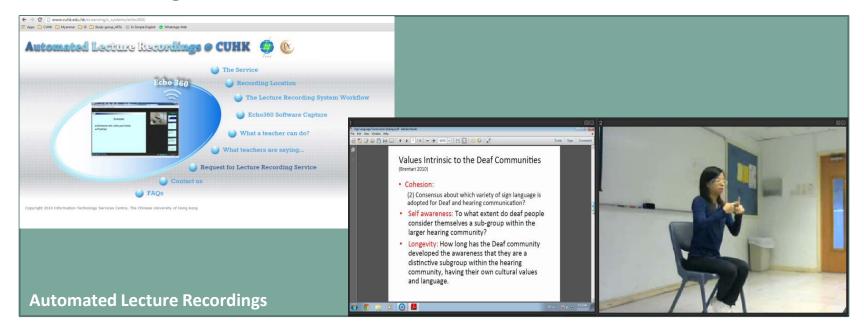


Note Taking

- Taking notes of teachers' and students' speech in lecture
- Staff assigned by the Department are providing the service



- Automated Lecture Recordings
 - Screen capture of the lecturer's presentation materials and sign interpretation synchronized
 - The video is made accessible for the deaf students through Blackboard



- Challenges
 - Sign Interpretation
 - Lectures
 - Distance from the projection screen, lecturer and the interpreters to provide better access of information in class
 - Group discussions or other activities like debate
 - Seating arrangement for interpreters during group discussions
 - Speed of message delivery and turn-takings
 - Note-taking
 - Identifying suitable note-takers
 - Medium of instructions of the lectures
 - Quality of the notes

- Personal Counseling
 - Regular meetings with the deaf students to review the support services
 - Learning consultation
 - Emotional support

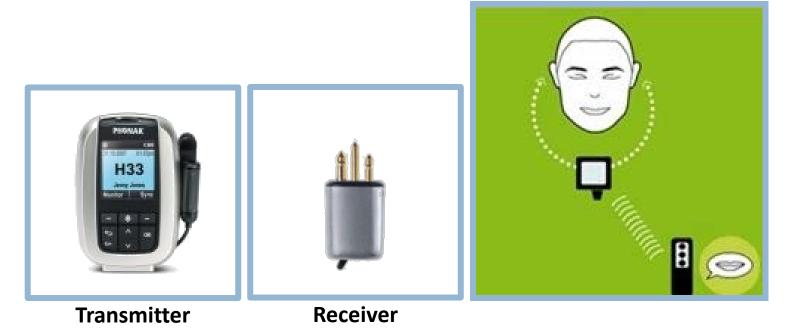
Experience in Supporting Non-Signing Students with Hearing Impairment

 MA in Linguistics with a specialization in Sign Linguistics

- 4 hearing impaired students since 2010
 - Support services for Deaf students required

Support Services Provided

- □ FM system Enhancement of speech perception
 - A transmitter and a receiver are loaned to the student free-of-charge
 - Especially good for those with better hearing ability



Support Services Provided

- Note-taking Service:
 - Student helpers are trained to use "C-Print" for:
 - Real-time note-taking: type out what is said during the lectures on computer – as a clue to Deaf students
 - Post-lecture editing: further edits the notes and then sends to the Deaf students
 - Video recording: video-take the lectures and then compile the video clips and subtitles for the students

International Practices

 With reference to the services provided at the National Technical Institute for the Deaf (NTID), Rochester Institute of Technology (RIT), US

List of Services at RIT

- □ http://www.ntid.rit.edu/support-services
- Access and Support Services
 - Sign interpreting services
 - Note-taking services
 - Real-time captioning services (C-Print)
 - Personal FM systems
- Educational Support Services
 - Tutoring
 - Academic advising
 - Personal and career counseling

Thank You!

