

# VIDEO CONFERENCE TRAINING

TEMDEC, KYUSHU UNIVERSITY HOSPITAL

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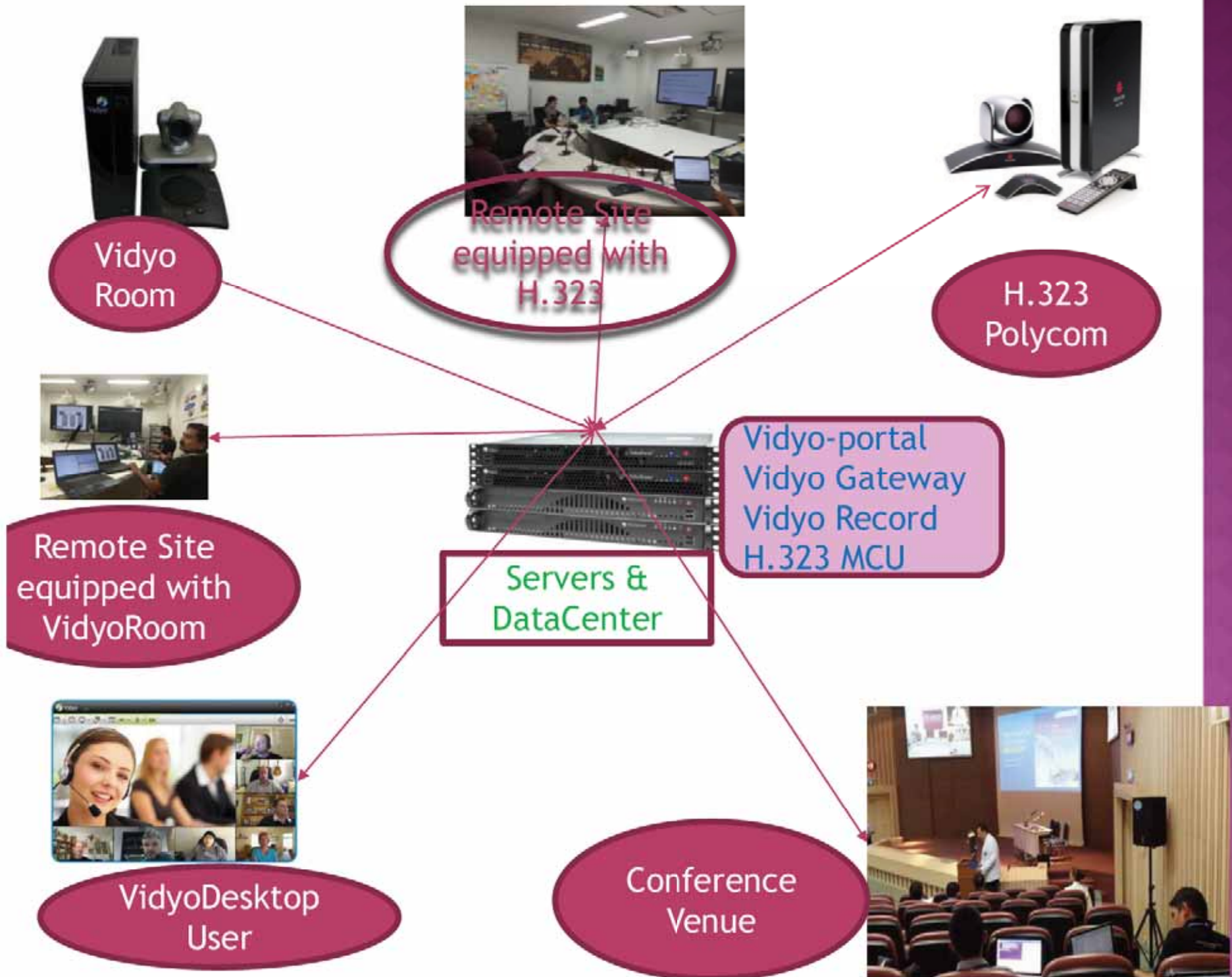
# PROGRAM:

Train the Trainer

# OBJECTIVES

- ⦿ How the telemedicine event is realized
- ⦿ Required quality level for telemedicine
- ⦿ Teleconferencing systems
- ⦿ Technical preparations for and event
- ⦿ Handling and troubleshooting on technical problems

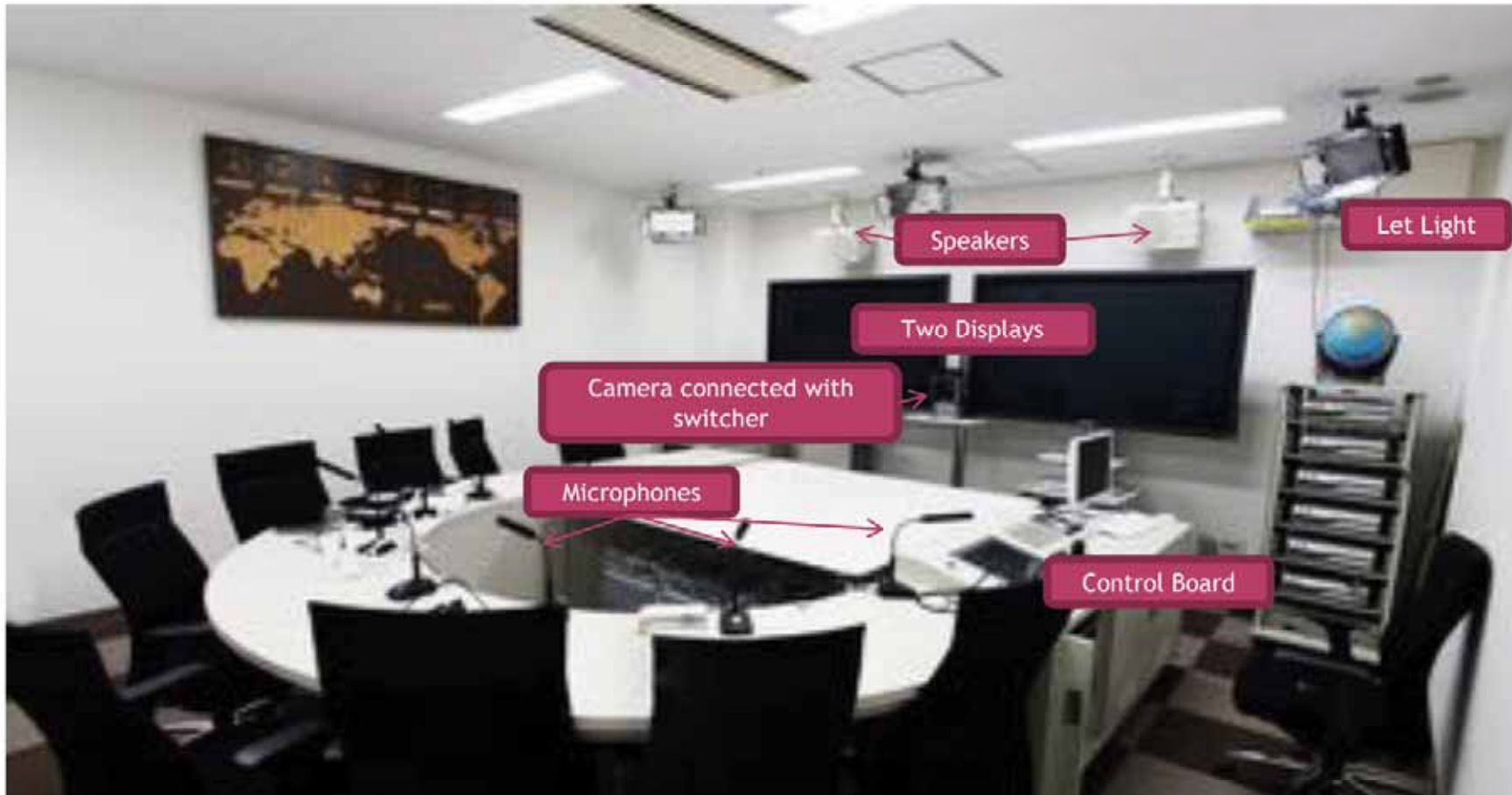




# TELEMEDICINE EVENT REALIZATION

- ⦿ **Audio**
  - Audio In: Microphones >> wired/wireless
  - Audio Out: Speakers
- ⦿ **Video**
  - Video In: Camera>> usb, firewire, vendor specific
  - Video Out: Monitor, Projector etc.
- ⦿ **Network**
- ⦿ **Conferencing equipment and medium**
  - Dedicated Hardware: VidyoRoom, Polycom HDX, Lifesize, Cisco,
  - Software: Skype, zoom, vidyoconnect, adobeconnet, open source software etc.
  - Computer /Laptops, tabs, smart phones.
- ⦿ **Cables and connectors**
  - Audio/video cables and connectors and adpter
- ⦿ **Controls**
  - Audio Mixer/amplifere, video mixer, video switcher, Control panels
- ⦿ **Sound absorber**

# CONFERENCE ROOM SETUP



# CONTROL BOARD INCLUDES



Camera Remote Control



Control Panel



Video Mixture



HD Video Switcher/Audio mixer



Audio Mini Mixture

## MEANS OF VIDEO CONFERENCING USED

- H.323 End point
- H.323 MCU
- Vidyo Room Endpoint
- Vidyo Portal
- Vidyo Gateway
- Vidyo Desktop



# PRACTICING WITH TWO VC SYSTEMS

## ○ H.323

- Point to Point
- Point to Multipoint
- Medical Content Sharing

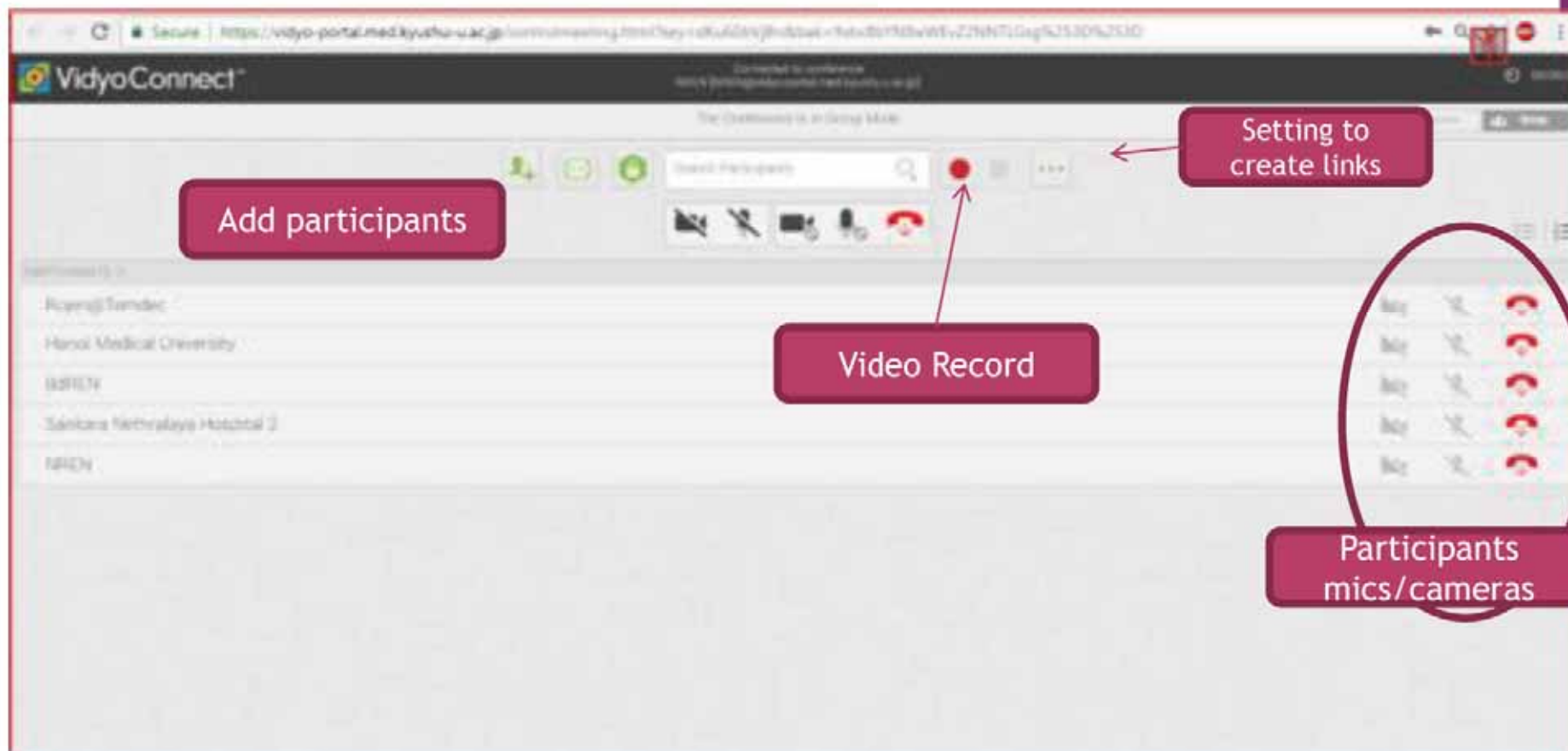
## ○ Vidyo System

- How to Use Vidyo Room
- Sharing medical Content
- Record & Streaming
- Administration of meeting room using of admin panel

Compare the image quality

Video clip should be played from video room

# VIDYO DESKTOP ADMIN PANEL



## JOIN VIEW (VIDEO SHARING PLATFORM)

Used Join view is use to put annotation in videos, pause/back/forward the sharing video by participants

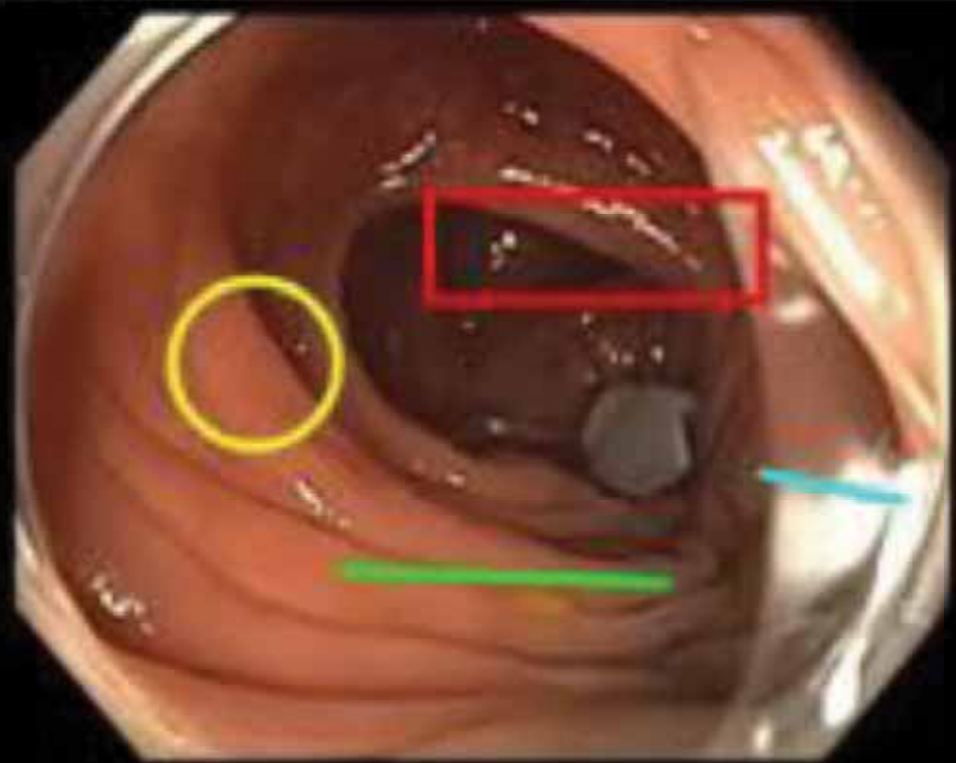
# VIDEO SHARING TEMDEC

Clip Manage

copy Vietnam

Preview Room [ENTER]

add comment



Annotation toolbar containing icons for:

- Hand cursor
- Line
- Arrow
- Rectangle
- Circle
- TEXT
- Color selection palette (green, yellow, cyan, red, blue, purple, orange, white, grey)
- Eraser
- Undo
- Redo

Video playback controls including:

- Volume icon (772)
- Play/Pause button
- Next/Previous buttons
- Timeline slider
- Time display: 00:05:00.977
- Full Screen button

Thumbnail gallery showing five small circular preview images of the endoscopic video.

# RESPONSIBILITY OF INDIVIDUALS IN AN EVENT

## ⦿ Organizer:

- Defines the Title of program
- Send proposals for presenters
- Ask them abstracts and biography
- Select the presenters, chair, co-chairs, chief engineers etc.

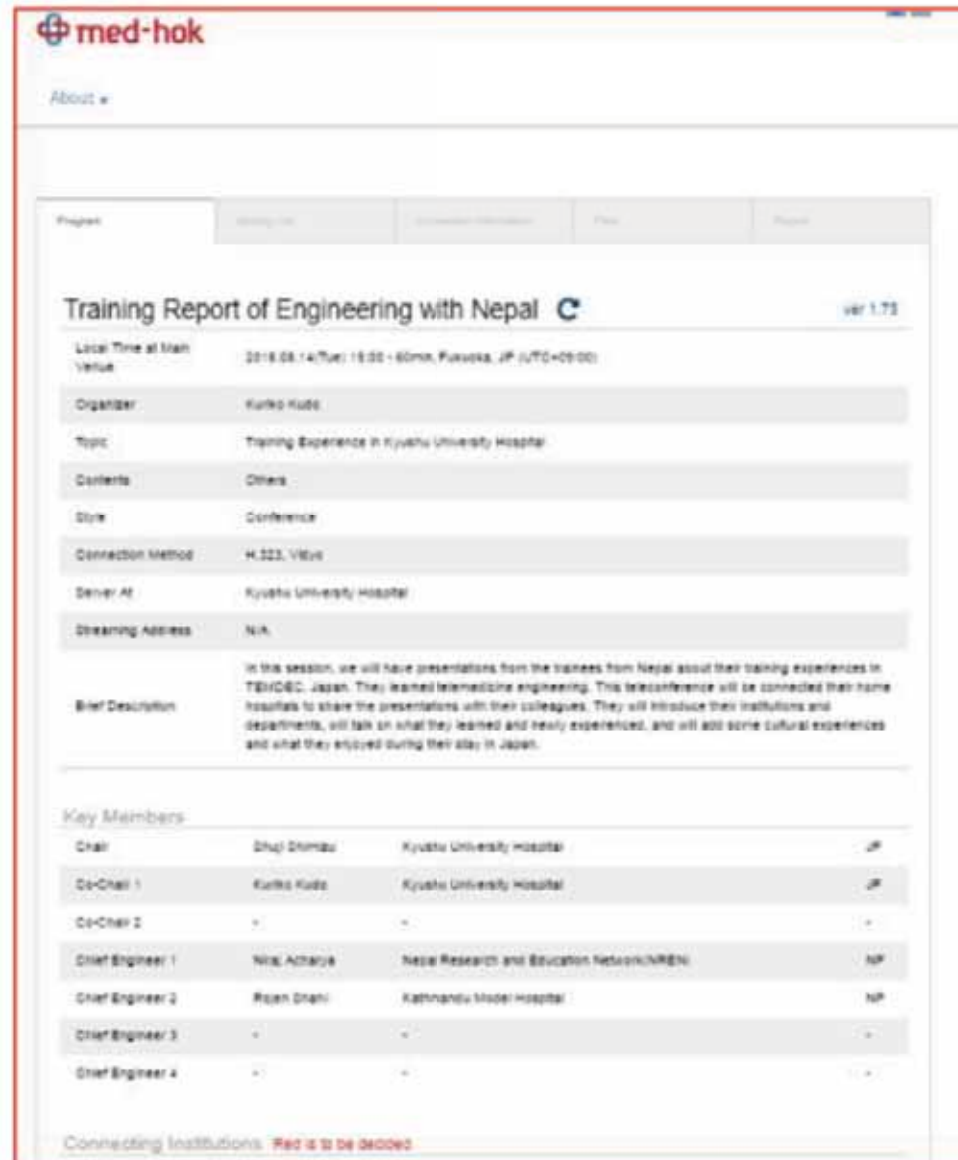
## ⦿ Chief Engineer

- Coordinate with organizer
- Create mailing list
- Choose the system to be used by discussing with local engineers
- Announce the test
- Conduct the test with local engineers
- Administered the whole session technically ( Audio/Video/Network etc.)
- Make the report for session review

## ⦿ Local Engineer

- ⦿ Participate in test connection
- ⦿ Coordinate with doctors / presenters at his site
- ⦿ Participate in final connection test
- ⦿ Check audio, video, network at own end
- ⦿ Be in touch with chief engineer and other engineers from text messaging
- ⦿ Give feedback of the session

# OTHERS: MED-HOC



The screenshot displays the 'med-hok' website interface. At the top left is the 'med-hok' logo. Below it is an 'About' link. The main content area features a table with columns for 'Program', 'Activity Date', 'Connection Information', 'Place', and 'Report'. The selected row is for the 'Training Report of Engineering with Nepal', version 1.73. Below the table, there is a detailed report card with the following information:

- Local Time at Main Venue:** 2018.08.14(Tue) 18:00 - 60min, Fukuoka, JP (UTC+09:00)
- Organizer:** Kurko Kudo
- Topic:** Training Experience in Kyushu University Hospital
- Contents:** Others
- Site:** Conference
- Connection Method:** H.323, VNet
- Server At:** Kyushu University Hospital
- Streaming Address:** N/A

**Brief Description:** In this session, we will have presentations from the trainees from Nepal about their training experiences in TEI/DEC, Japan. They learned telemedicine engineering. This teleconference will be connected that home hospitals to share the presentations with their colleagues. They will introduce their institutions and departments, will talk on what they learned and newly experienced, and will add some cultural experiences and what they enjoyed during their stay in Japan.

**Key Members:**

Role	Name	Institution	Country
Chair	Shuji Shimizu	Kyushu University Hospital	JP
Co-Chair 1	Kurko Kudo	Kyushu University Hospital	JP
Co-Chair 2	-	-	-
Chief Engineer 1	Nish Acharya	Nepal Research and Education Network(NREN)	NP
Chief Engineer 2	Rajan Gharti	Kathmandu Model Hospital	NP
Chief Engineer 3	-	-	-
Chief Engineer 4	-	-	-

Connecting Institutions. **Red is to be decided**

# ADOBECONNECT

- ◉ Use Group chat platform among the engineers to make the event successful technically.
- ◉ Adobeconnect
  - Because of the Group chat any body can see the concern of any one and help to troubleshooting.



# UNDERSTANDING FROM APAN ENGINEERING SESSION

- ⦿ There are many factors and issues that affect the Telemedicine events
  - Audio
  - Video
  - Contents
  - Network

Most of the time Audio appears as the major issue for the disturbance





- ⦿ There are factors that affect the event:
  - Human
  - Hardware
  - Software
  - Context
- ⦿ Its concluded that Human is the is the prime factor behind the problem occurred in conference
  - Lack of knowledge and skills
  - Lack of Managerial skill
  - Lack of communication



# VIDYO CONFERENCE USED IN NREN

## ⦿ H.323 :

- Polycom HDX7000
- Polycom MCU RMX1500

## ⦿ Web Conferencing Application from open source platform

- Is being used by Doctors for Inter Hospital Sharing, monthly meets, Engineers,
- Going to use by some schools for tele-teaching

# NREN MEMBERS

- ◉ Six Hospitals and Medical colleges are the members of NREN



# APAN HBP SESSION



DOCTORS FROM KYUSHU UNIVERSITY PARTICIPATING IN APAN46 REMOTELY



# APAN46 DENTAL SESSION



# ENGINEERS @ TEMDEC SUPPORTING APAN46 EVENT



# INSTRUCTION REGARDING VIDYO SYSTEMS AND H.323 SYSTEMS







# VISIT TO ELECTRONIC EXHIBITION



# ENJOYING IN SUSHI RESTAURANT



# VISITING FUKUOKA TOWER



# @OPEN TOP BUS FUKUOKA





# VISITING NAGASAKI



# VISITING NAGASAKI





ありがとうございました



**DID YOU MUTE  
YOUR MIC WHILE  
NOT SPEAKING**