



# Telemedicine Training Report

**Telemedicine Development Center of Asia  
Kyushu University Hospital**

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**National Institute of Medical Sciences and Nutrition Salvador Zubirán**

**Training duration: February 6 to 24, 2017.**



# GENERAL INFORMATION



- » My Institution.
- » How the telemedicine event is realized.
- » Required quality level for telemedicine.
- » Teleconferencing systems.
- » Technical preparations.
- » Troubleshoot technical issues.



# MY INSTITUTION

TEMDEC  
Talent Development Center of State



The National Institute of Medical Sciences and Nutrition Salvador Zubirán (INCMNSZ) is one of the National Institutes of the Mexican Ministry of Public Health that provides third level medical care for adults.

We are a national health institution that carries out research, teaching and high quality assistance with security, honesty, responsibility and social commitment, within a framework of liberty and loyalty, at the service of the human being and its surroundings.



# MY INSTITUTION



- In the institute we are 2,800 employees.
- The institute has 1,200 daily consultations.
- It's a center for liver transplants, with 50 transplants each year.

[www.incmnsz.mx](http://www.incmnsz.mx)



# MY INSTITUTION



Currently the Institute has many events for example:

- » Gastroenterology postgraduate courses.
- » International Endoscopy Courses.
- » Surgery Congresses.
- » Nursing Symposiums.



Simposio de educación continua en enfermería con el tema:

Actualidades sobre la infección por *Clostridium difficile*: prevención, diagnóstico y manejo oportuno



# MY INSTITUTION



The IT subdirection is integrated by 3 departments:

- » Software Development and Maintenance Department
- » Informatics in Research Department
- » Communications Department

This Subdirection is composed by a total of 34 people.

The Software Development and Maintenance Department is in charge for the development of new computer systems for the medical area and its administration, as well as the maintenance of those already in use.



# MY INSTITUTION



The main objectives of the Informatics in Research Department are: the operation of the Ethernet and wireless network of the Institute, internet service with quality of service, help desk and Servers administration. I am the infrastructure coordinator of this department.

The Communications Department is responsible for the telephone communication and intercommunication of the Institute.



# MY INSTITUTION



## Teleconference System in Nutrition

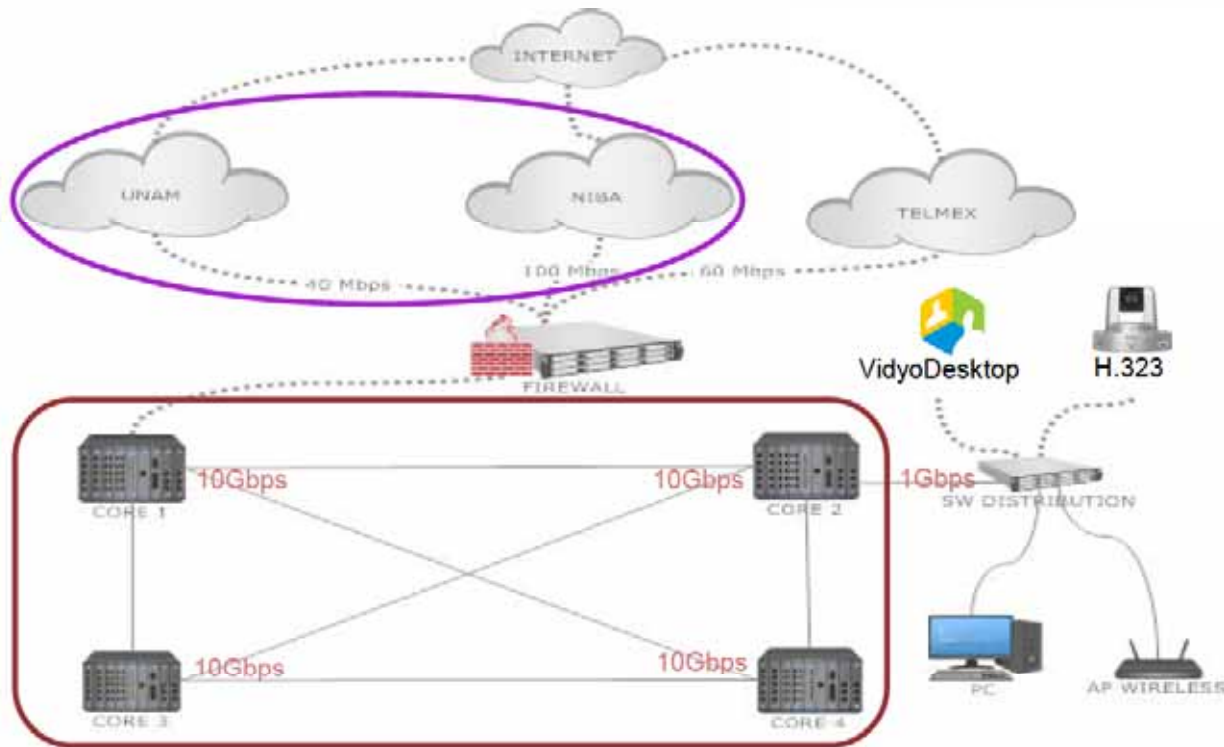
### IPELA PCS-XG100





# INTRODUCTION

This is the network of the Institute.



## Training-report of Endoscopy and Engineering with Mexico

ver.2.55

Team	Key	Name	Role	My Institution	Mail Address 1	Mail Add
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**TEMDEC**  
Technology Development Center of Asia



#483 Saga University Surgical Video Conference

2014.09.30

【Event】	【Comments】
QUESTIONNAIRE Surgical Video Conference <a href="https://temdec-survey.typeform.com/to/GlpTF8">https://temdec-survey.typeform.com/to/GlpTF8</a>	This was the first program of surgical video conference, where Saga Univ. Hospital was connected with four affiliated hospitals. Recorded file of laparoscopic

1 → How was the image sharpness? \*

very good  good  poor  very poor

2 → How was the image movement? \*

A very smooth  B smooth  
 C sluggish (slow)  D very sluggish (slow)

6 → Do you think gamification technology will be useful for your organization? \*

A yes  B no  C maybe  
 D not relevant



# TRAINING

One of the purposes of telemedicine is to be able to transmit video with educational subjects so we need specific requirements to perform the videoconference.  
Not only fixed images

- » Bandwidth is very important.
- » Check that the video conferencing system works correctly.
- » Identify connections using a diagram.
- » Use VydioRoom
- » Test, test



# TRAINING (SYSTEMS)



## POLYCOM H3.23

- » The interface is not user friendly.
- » Requires an application to manage it.
- » We had problems with Vidyo connections.
- » Needs a public IP address.
- » Good video quality



# TRAINING (SYSTEMS)



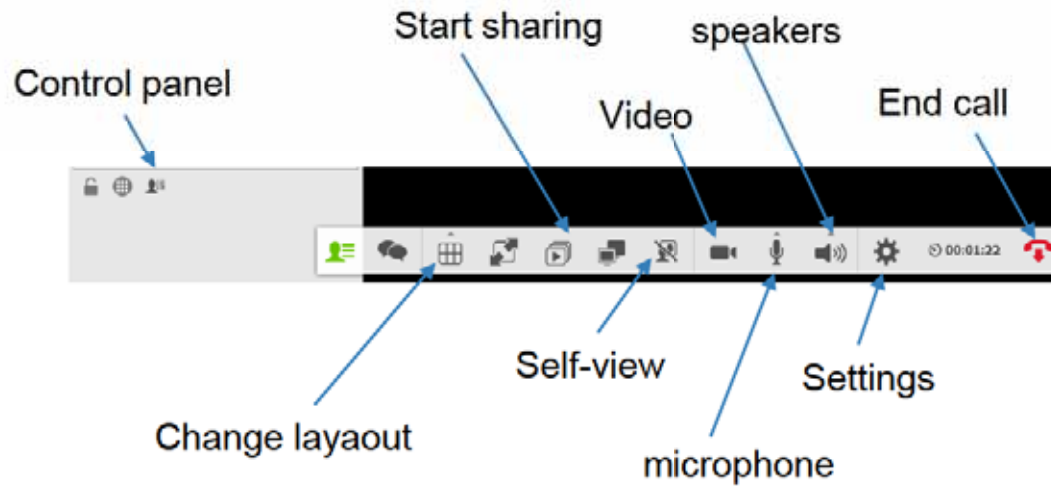
## VIDYO

- » It has a graphical and intuitive interface.
- » Your platform is robust
- » For video sharing you must use VidyoRoom
- » Compatible with H.323
- » Portable on Windows, MAC, Mobiles



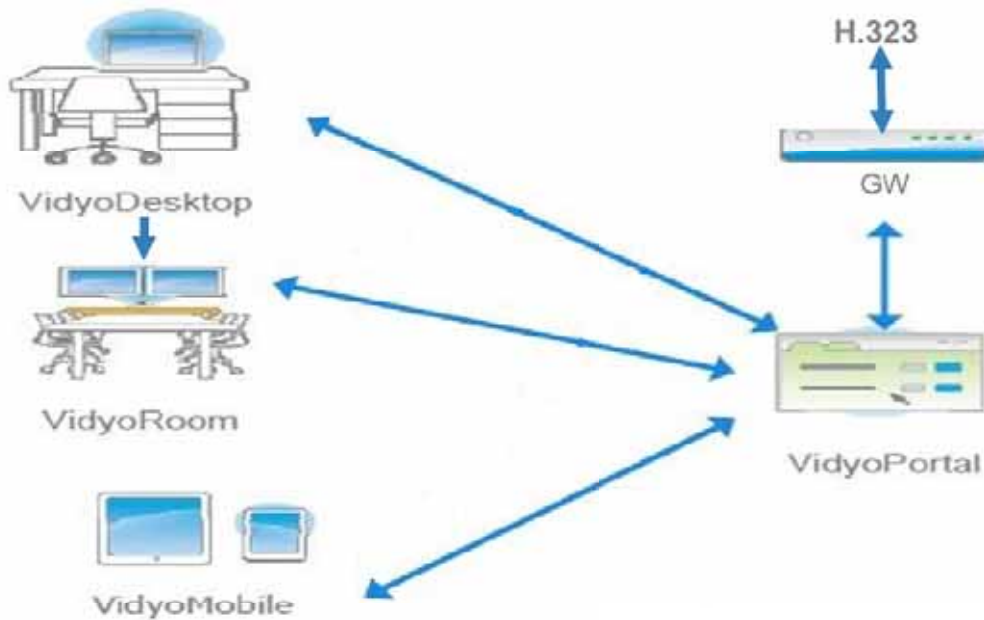
# TRAINING (SYSTEMS)

## VidyoDesktop Options



# TRAINING (SYSTEMS)

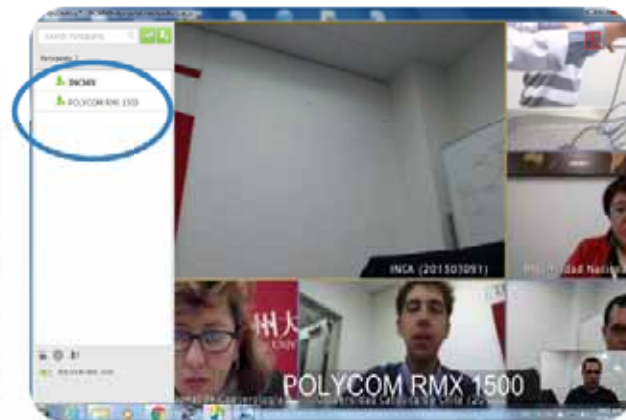
How do you connect to H.323?





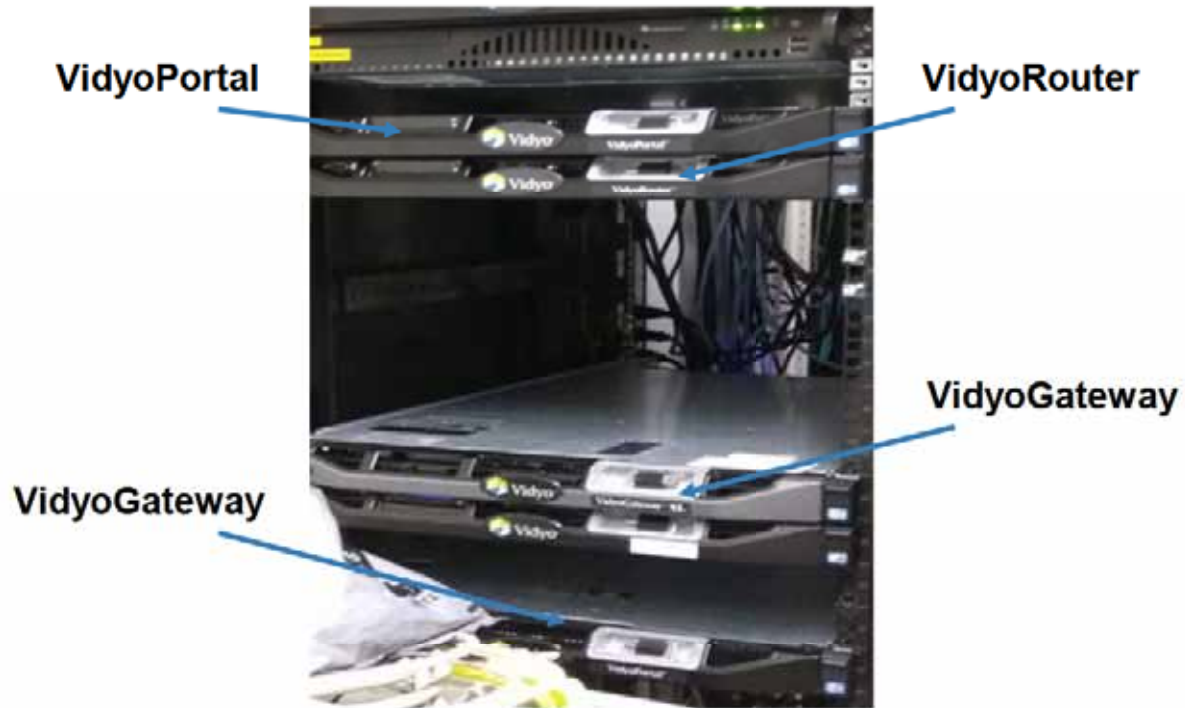
# TRAINING (SYSTEMS)

## Vidyo Connection with H.323



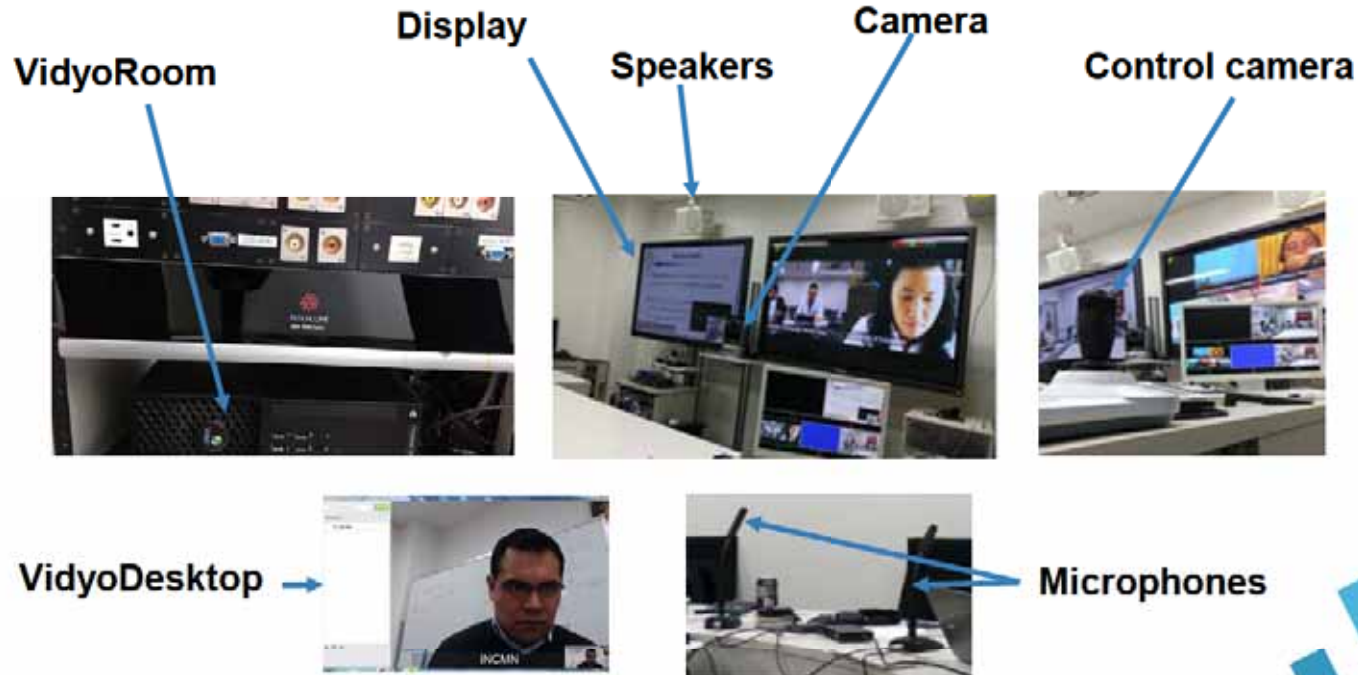
# TRAINING (SYSTEMS)

## The TEMDEC devices



# TRAINING (SYSTEMS)

## The TEMDEC devices



# TRAINING

First connection!



# TRAINING (SYSTEMS)



Joinview

Managed File Transfer System, Preview Player (based HTML 5)



# TRAINING (SYSTEMS)



# TRAINING (SYSTEMS)



## APAN 43 INDIA

We tested with the Zoom tool.

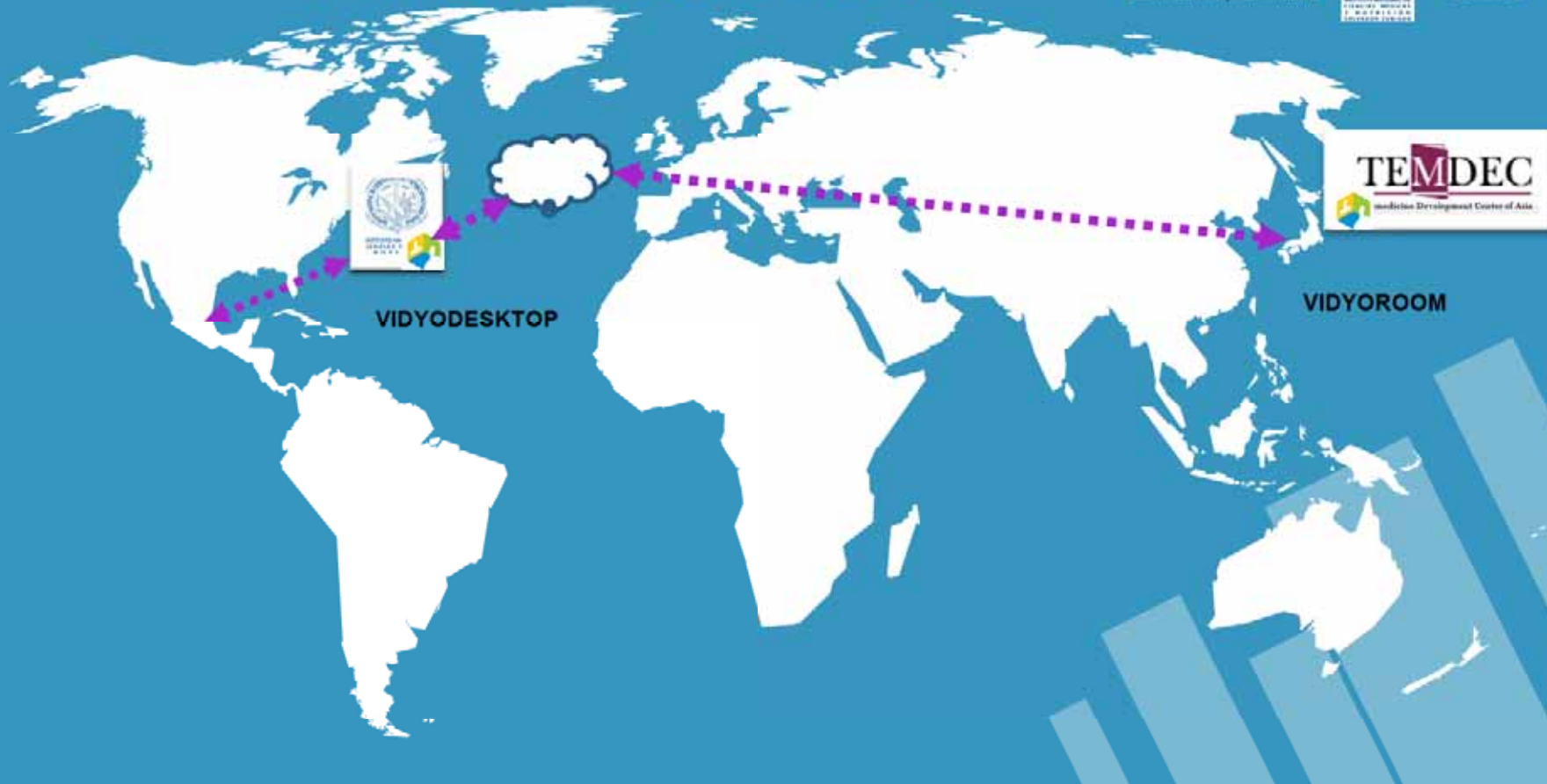
We were present at the events, we did tests, we are part of the communication with adobeconnect.

In the end there were always questions and answers

And a report for the feedback of the event



# TEST CONNECTION MX-JP



**VIDYODESKTOP**

**VIDYOROOM**



# JAPANESE FOOD

*It's Very Good!*

TEMDEC  
Technology Development Center of Aizu



# PEOPLE AND PLACES



# FUTURE PLAINS



- » Provide a report to the Institute's authorities on the benefits of the course
- » Transfer of knowledge to people in the area
- » Maintain communication with TEMDEC for future events



**Thank you very much!**

