



..... **Training Report in Telemedicine** .....

**6-17 February 2017**

**Telemedicine Development of Asia (TEMDEC)**

**Kyushu University Hospital**



**Instituto Nacional de Cancerología,  
México**

**Biomedical Engineering Department**  
**Sandra Rocha**



# Contents



- 
- Introduce - INCan
  - Kyushu University Hospital
  - Introduce TEMDEC
  - One Month Training
  - Enjoy Japan

# Introduction



## ❖ National Role

- Center of reference and governing body of cancer in Mexico.
- Assistance in the formulation and implementation of the National Cancer Care Policy;
- Play multiple roles in all areas of cancer: care delivery, research, education, prevention and cancer surveillance;
- Coordinates programs and national actions;
- Coordinator of 40 State Cancer Centers
- Plays an important role in cancer international cooperation;
- Technical advisor of the Ministry of Health.
- 2016 - 70 years of history.



## ❖ Two main facilities connected by a two-level bridge



## High Technology Medical Equipment:

- Six Linear Accelerators
- Cyclotron 18 MeV
- Two PET-CT Scanner
- One PEM Scanner
- One SPECT-CT
- One Gamma camera
- Two MRI Scanner
- Three CT Scanner
- Angiography
- Four Digital Mammography
- Twelve Ultrasounds
- Densitometer
- Orthopantomography
- Six Digital Radiology
- Two complete PACS-RIS Solutions
  - INCan
  - Tele mammography

# IT Programs



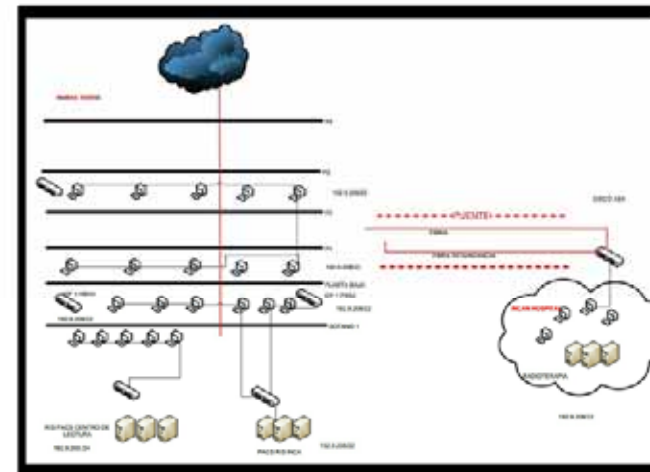
In Progress



## ❖ Current PACS-RIS

### PACS:

- Installed 2007
- Upgrade 2010
- Upgrade 2016
- 50 TB Storage
- 150,000 Studies/year
- 18 Diagnostic Stations
- In-site and mobile device apps.

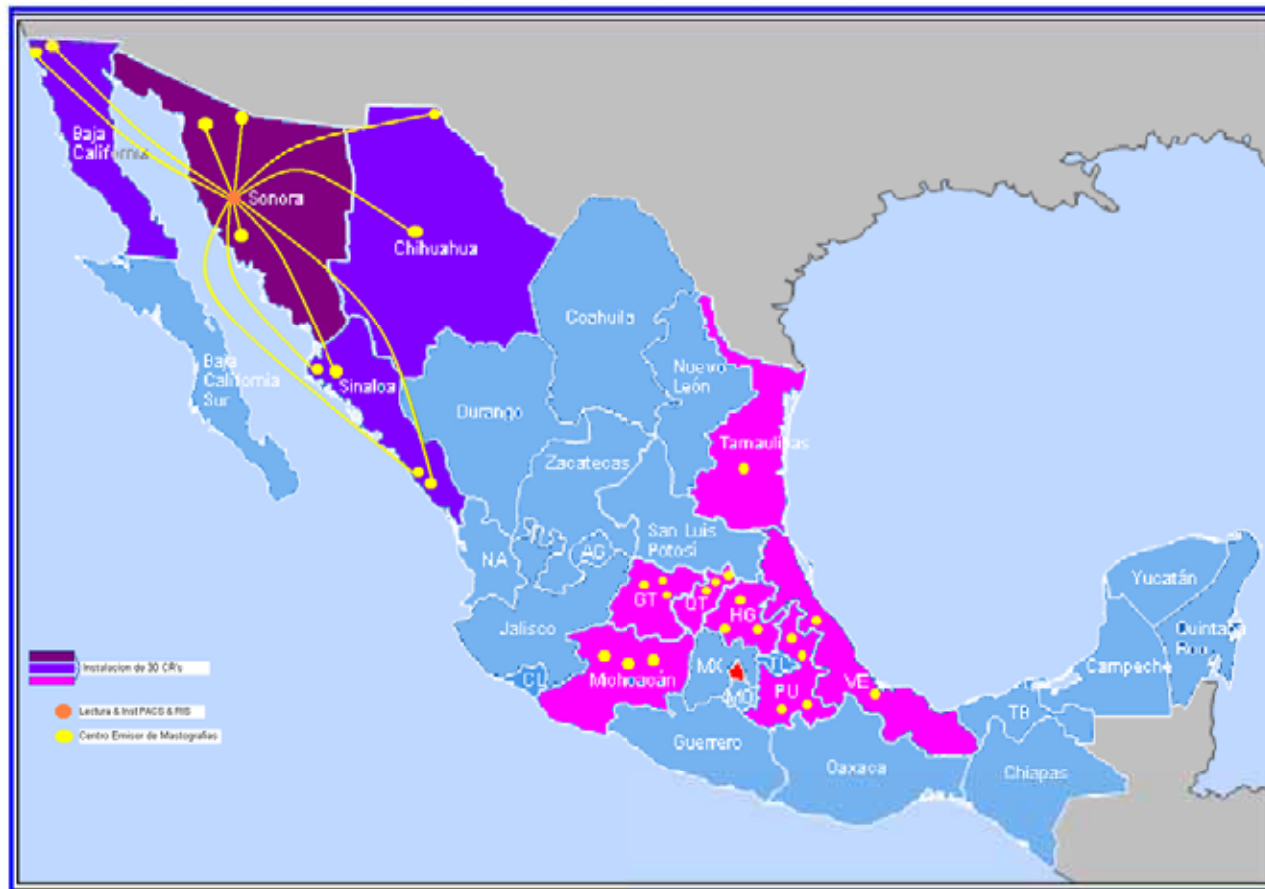




# IT Programs



## ❖ Mexican Breast Cancer Screening Program

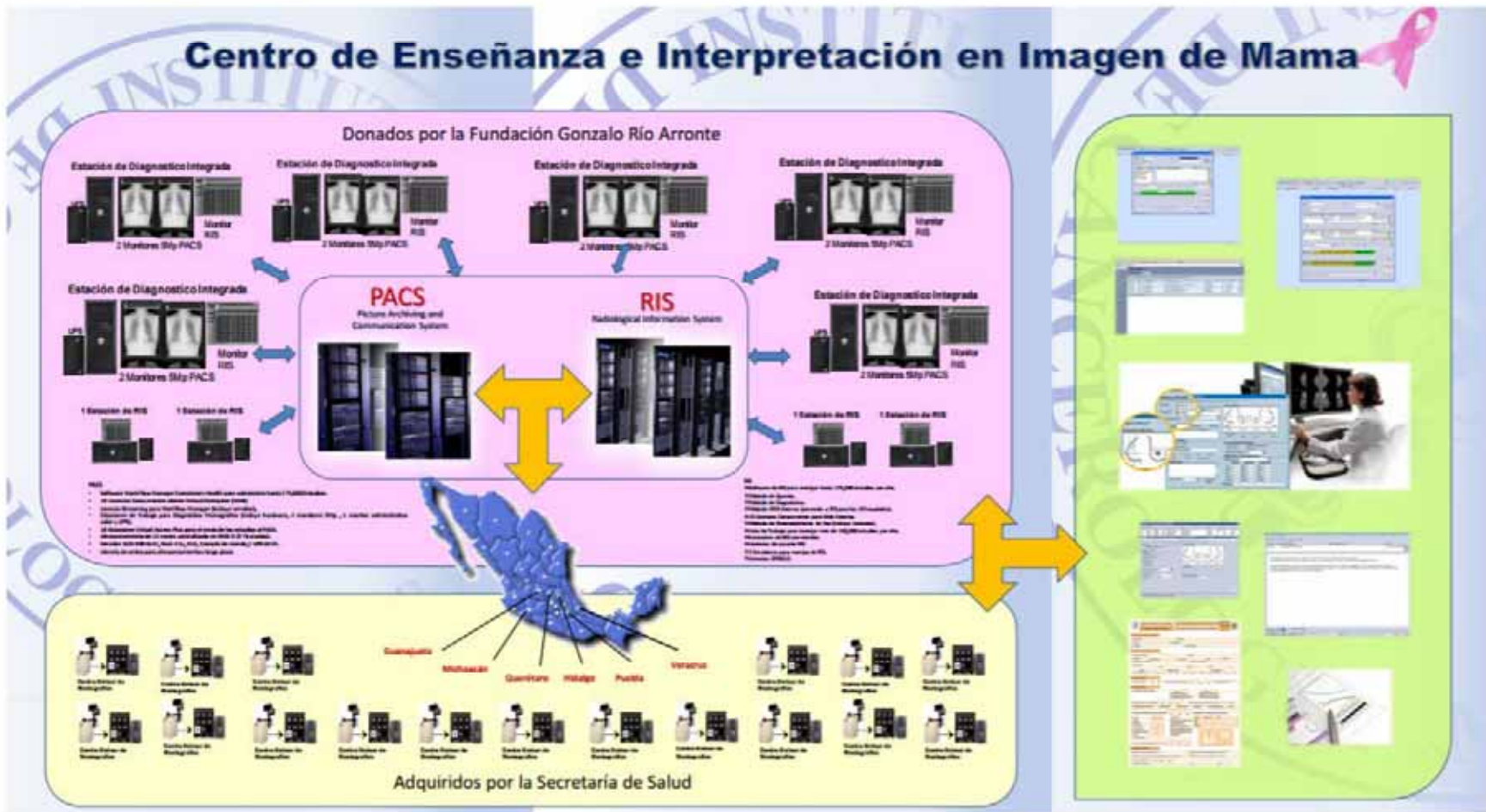


# IT Programs



## ❖ Mexican Breast Cancer Screening Program

2010 . Suspended at the moment



# IT Programs



- ❖ **On-Line Courses:**
- ❖ Quality Control in Mammography, on-line and insite for Radiology Technicians, Physician and Service Engineers.

Curso Virtual 2016 • Español • Internacional (es) • Inicio

Instituto Nacional de Cancerología

Curso de actualización en control de calidad y posicionamiento para Técnicos Radiólogos en Mastografía - 2016

INFORMACIÓN GENERAL | MENSAJE DE BIENVENIDA | INGRESA AL CURSO

Curso Virtual 2016 • Español • Internacional (es) • Mi curso • Mis cursos

Instituto Nacional de Cancerología

Curso de actualización para Técnicos Radiólogos en Mastografía - 2016

General

Bienvenidos al "Curso de actualización en control de calidad y posicionamiento para Técnicos Radiólogos en mastografía - 2016"

Módulo I

Meeting number: 811 843 151 | Date: Monday, October 5, 2016 | Time: 1:36 PM (America/Mexico\_City CST -5:05)

Nombre	Joining Time / Leaving
idrigal	05:16 PM / 05:32
Alejandra Huerta	05:16 PM / 05:32
Aguilera Dulce	05:16 PM / 05:32
Alejandra Flores	05:10 PM / 05:32
Alejandra	05:16 PM / 05:32
Alejandra J. Hernandez	05:10 PM / 05:32
Ana Eliz. de Moroy	05:16 PM / 05:32
Andrea Segura	05:10 PM / 05:32
Angela L. de Moreno	05:16 PM / 05:32
Angelina	05:16 PM / 05:32
Beatriz	05:16 PM / 05:32
Brenda	05:10 PM / 05:32
Carola	05:30 PM / 05:32
Diana Ar. Estanislav	05:29 PM / 05:32
Diana Ar. Estanislav	05:30 PM / 05:32
DORIS L. AGUIRRE	05:10 PM / 05:32
Erika Vazquez Flores	05:22 PM / 05:32
Erika Bentes	05:16 PM / 05:32
Erika	05:16 PM / 05:32
Issabel Chenday	05:16 PM / 05:32
GRACIE GARCIA	05:10 PM / 05:32
Nancy Garza	05:16 PM / 05:32
Irma Bar. de Buente	05:10 PM / 05:32
ISABEL HERNANDEZ	05:16 PM / 05:32
Lety Lara	05:16 PM / 05:32
Isabel	05:16 PM / 05:32
Isabel	05:32 PM / 05:32
MARIA E. GUEZ A	05:16 PM / 05:32
MARIA E. GUEZ A	05:16 PM / 05:32
Martza	05:30 PM / 05:32
miguel a. de gomez	05:16 PM / 05:32

Chat messages:

- From Alejandra Macías Flores to Todos(05:44:35 PM)
- From vianney glez to Todos(05:44:39 PM)
- From Rocio to Todos(05:44:43 PM)
- From Brenda to Todos(05:44:51 PM)
- From Alejandra Macías Flores to Todos(05:44:51 PM)
- From YUDINICA MARGARITA to Todos(05:44:52 PM)
- From Irma to Todos(05:44:52 PM)
- From Rocio to Todos(05:44:53 PM)
- From Ana Elizabeth Cabrera Morrey to Todos(05:44:55 PM)



# Kyushu University Hospital



**TEMDEC**  
Telemedicine Development Center of Asia



## ❖ Fukuoka, Japan



Population: 1,483,052  
April 2012



KYUSHU UNIVERSITY HOSPITAL

- National University Hospital,
- More than 100 years of history.
- Nearly 3,000 staff.
- 2,900 outpatients per day on average
- Hospital bed capacity that exceeds 1,400



*Transmitting the Latest Medical Care Information  
From Fukuoka to Asia and the World*



Telemedicine activity started in 2002

With rapid and wide recognition of these activities, Kyushu University Hospital formally opened a new office, Telemedicine Development Center of Asia (TEMDEC), in October 2008, and it takes over the role of AQUA to lead international telemedicine.



## Roles and History of “Telemedicine Development Center of Asia (TEMDEC)

”The aim of this center is to establish effective and consistent medical communications among Asian countries using super-fast Internet and advanced technology.

Main activities are as follows.

- Remote medical education: Organizing programs and preparations for the event.
- Remote patient care: Tele-consultations and arrangements for international patient care.
- Development and application of new technology: For more connections and better images.
- Development of attractive contents: Consistent search for the new applications.
- Secretariat of Medical Working Group of Asia-Pacific Advanced Network:
- Center for international exchange programs: Invitation of foreign medical doctors.

# TEMDEC Facilities



**TEMDEC**  
Telemedicine Development Center of Asia





# TEMDEC Facilities



**TEMDEC**  
Telemedicine Development Center of Asia

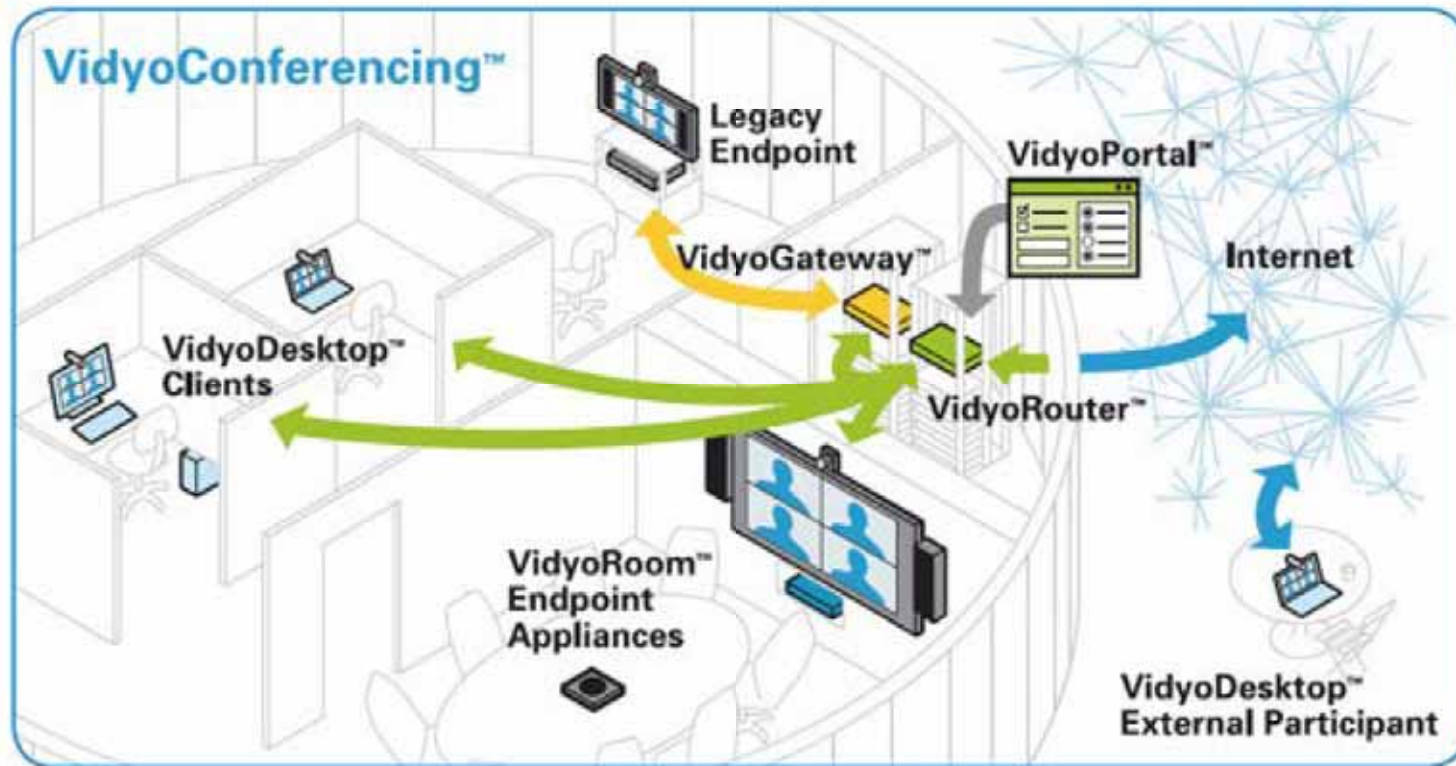


## Teleconference Systems:

- H.323
- Vidyo
  - Vidyo Room
  - Vidyo Desktop
  - Vidyo Mobile
- MCU
- Gateway
- Join View



# TEMDEC Facilities

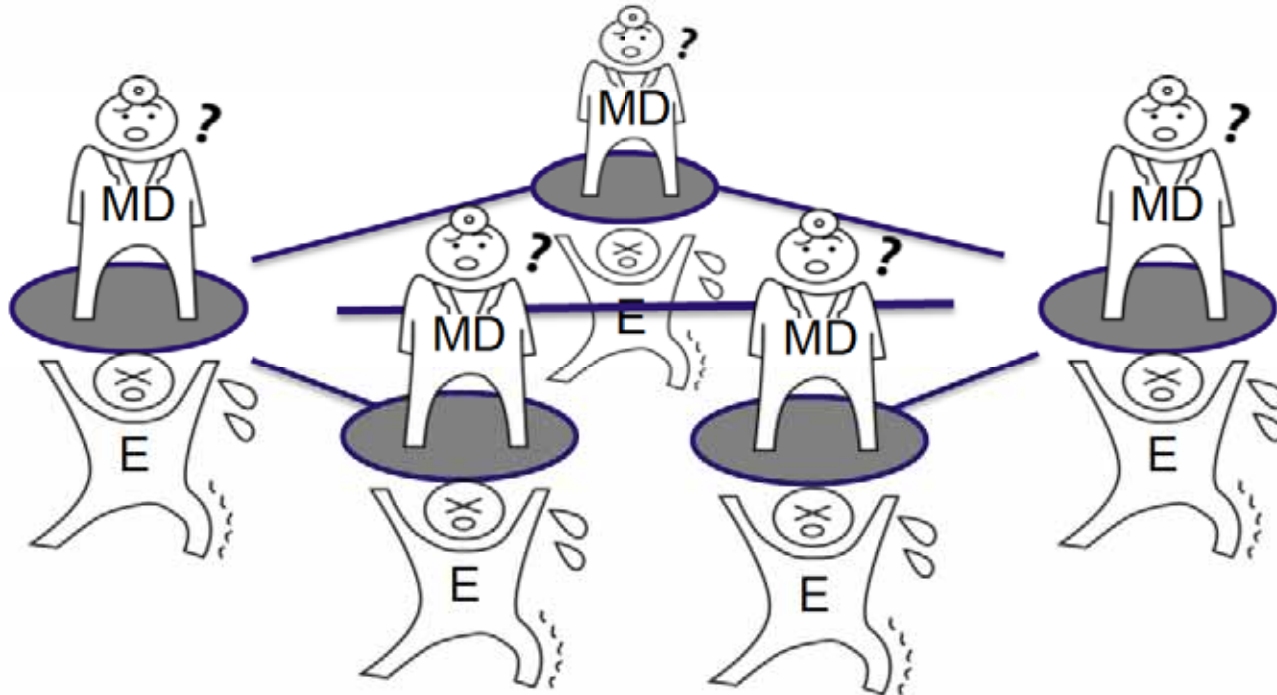


# Learned – Main Points for success



- **Build good communication between Medical Staff and Engineers Staff**
  - Training Engineers
  - Systemize the Telemedicine process
  - Plan every session and task
    - Follow up and complete the tasks
    - Always make reports.
    - Be punctual
    - Keep the inventory assets
    - Keep everything clean and tidy!
  - Enjoy
-

## Medical Staff



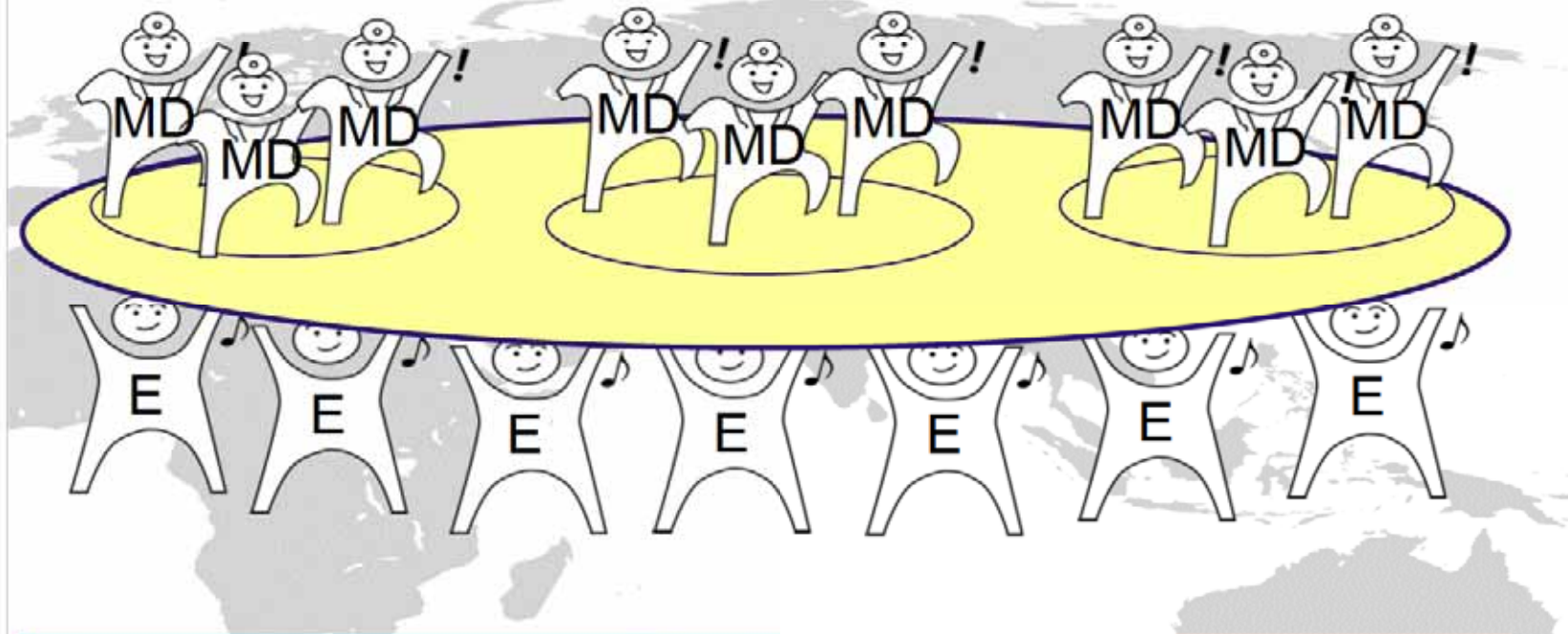
**Engineers**

**Untrained Telemedicine engineers**

# Learned – Training Engineers



Medical staff



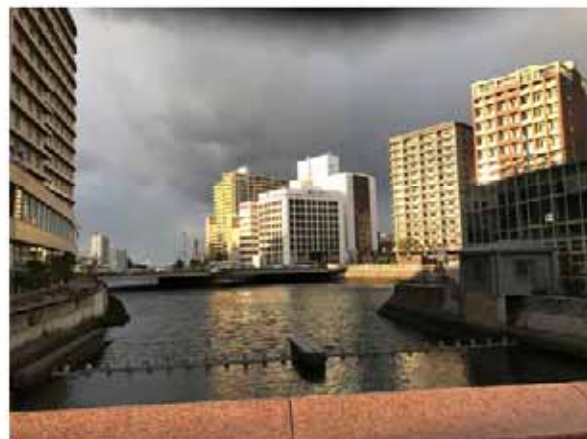
Engineers

Well trained Telemedicine engineers

# Enjoy Meetings



# Enjoy Japan



# Introduction



## ❖ Valentine's Day







**Thank you!**

Sandra Rocha  
Nava  
srochan@yahoo.co