



**MONGOLIA-JAPAN
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Mongolian National University of Medical Sciences

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TEMDEC

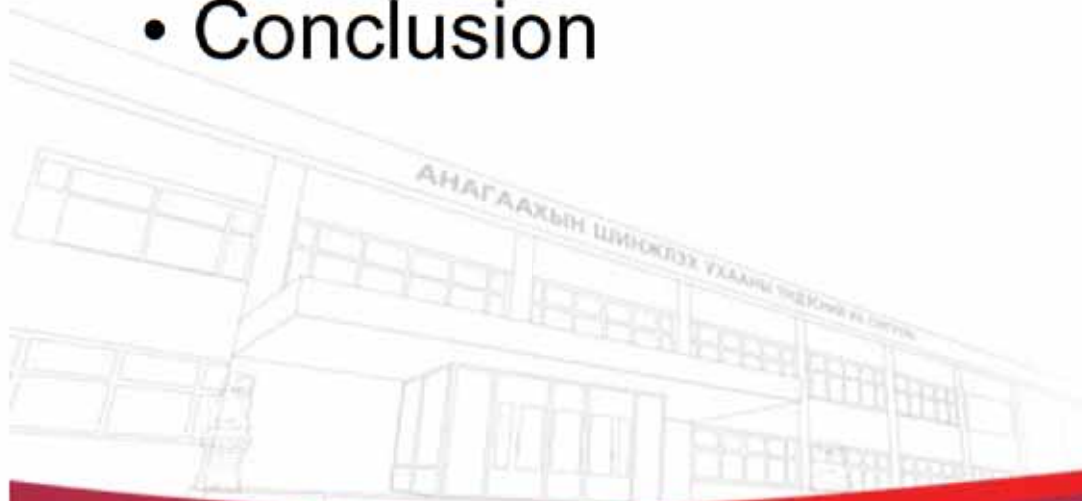
Telemedicine Development Center of Asia

Train-the-Trainer in TEMDEC

MUNKHZUL Ochirbat
BAASANDORJ Tsogtbat



- TEMDEC
- Training plan
- Lessons
- Setup practice
- Meetings and conferences
- Other activities
- Conclusion



- Telemedicine Development Center of Asia
 - Aims to established effective and consistent medical international communications among countries using super-fast internet and advanced technology.
 - Over 800 programs
 - Over 500 institutions in 60 countries
 - Activities
 - Remote Medical Education
 - Asia Telemedicine Symposium
 - Domestic Telemedicine Work shop
 - Training program for engineers



АНАГААХЫН ШИНЖЛЭХ УХААНЫ ТИЭРСНИЙ ХЭ СЭТГЭН

- Information technology department established in July of 2019. ITD's responsible for:
 - Developing information system of hospital
 - Setting up, developing and maintaining computer and computer network (computer related devices)



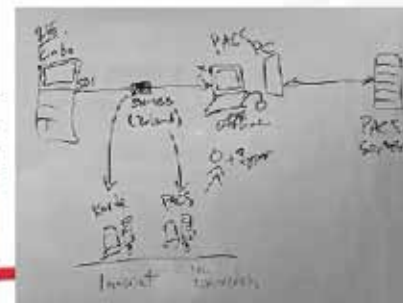
- ITD collaborates medical engineering team. The medical engineering team has 2 engineers and 8 technicians.

Trainer & Coordinator

- Kuriko Kudo (PhD)
- Shintaro Ueda (PhD)
- Shunta Tomimatsu (PhD)
- Yukiko Hisada (PhD)
- Yoshiko Houkabe
- Miho Hayata
- Masahiro Kohmatsu



Timing	Contents
1st week	<ul style="list-style-type: none"> - Workflow of chief engineer - Outline of the conference program - Attending other programs
2nd week	<ul style="list-style-type: none"> - Contact to all participating institutions - Decide system and make technical announcement - Making the program and mailing list
3rd week	<ul style="list-style-type: none"> - Make an announcement - Gather presentation files in advance
4th week	<ul style="list-style-type: none"> - Connectivity test with all institutions - Venue setup - Host operation - Making presentation - Submit report

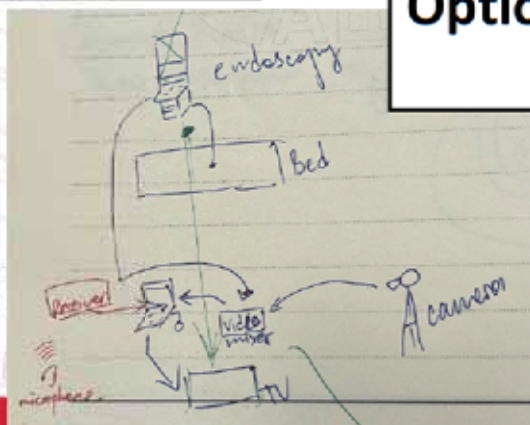
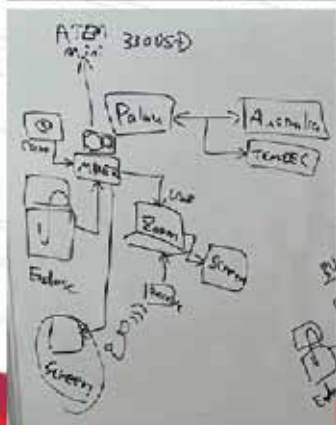


- Orientation
- Zoom
 - Assignment
- 360° camera
- YouTube streaming
- Joint view
- Endoscopy and surgery room
- Hybrid meeting setup training
- Checking audio configuration for live endoscopy





Hands-on training



Item	Contents
Videoconferencing System	<ul style="list-style-type: none"> - Zoom meeting - Zoom webinar - Teams, WebEX - Sharing medical contents - Host operation
Streaming	<ul style="list-style-type: none"> - Youtube - OBS studio
Annotations	<ul style="list-style-type: none"> - JoinView
Setup venue	<ul style="list-style-type: none"> - Setup from scratch - Troubleshooting
Optional lectures	<ul style="list-style-type: none"> - Live Endoscopy - Virtual reality - Hospital information system





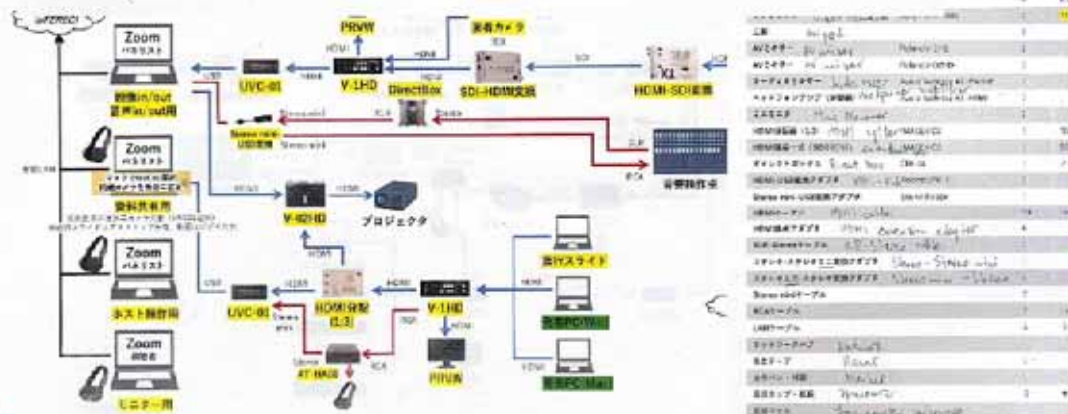
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Setup practice

Asia Week Indonesia session



口産ケア協会学術大会 配信構成案 A | 資料館市ローカル再生
2022.11.12 百年記念大会ホール



Meetings and conferences

- 2022.11.04 Indonesia-Kyushu University, **Sprit of the Future**
- 2022.11.07 The 2nd **Medical x Design Collaboration Seminar: The Future Opened Up by the Collaboration of Medicine and Design/Art** [simultaneous translation]
- 2022.11.08 Current Status, **Outcomes and Challenges of the Portable Health Clinic Research & Development Activities** [ENG]
- Every Wednesday → **Brown Bag Seminar** [simultaneous translation]
- 2022.11.09 Between Australia and Palau Live Endoscopy Demonstration test
- 2022.11.24 The 28th Latin American Endoscopy Teleconference

АНАГААХЫН ШИНЖЛЭХ ҮХААРЫН ТИЭРЭМЖИЙН СЭНТЭР

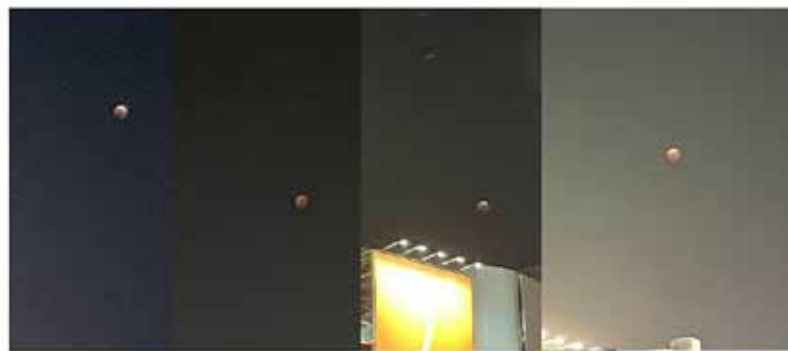


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Other activities

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Other activity with TEMDEC





TELEMEDICINE

- Human resource
- Hardware
- Software
- Planning
- Managing
- Monitoring
- Connecting
- Content sharing
- Quality
- Feedback
- ...



- All engineers, researchers, and coordinators of TEMDEC are knowledgeable, hardworking, hospitable, and responsible people.
- As the next JICA project focuses on training and education, it's important to introduce Telemedicine at Mongolia-Japan hospital.
- I think that the “Train-to-Trainer” program has become a very valuable training for the Ministry of Health, but also for other hospitals in Mongolia. Therefore, I will share the knowledge I have learned with other hospitals and IT specialists when I return to Mongolia.

Thank you all of TEMDEC

Plan to do in Mongolia

- Investment in the video, audio, and network equipment; Human resource
- To study possibilities for the development of telemedicine in Mongolia (MJH and others)
 - Exchange experience in connection with domestic hospitals through online meetings
 - To study telemedicine technology, systems, and network structure in detail and introduce other Mongolian participants
- To plan to permanently connect with TEMDEC and let participate doctors and engineers (specialists) in activities and programs



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**THANK YOU FOR YOUR
ATTENTION**

