

「Asia-Pacific Medical Network Project in
Kyushu University Hospital」 TEMDEC
(Telemedicine Development Center of Asia)
Annual Report : Vol.14

<https://doi.org/10.15017/4403551>

出版情報 : 「超高速ネットワークを利用したアジア遠隔医療プロジェクト」 TEMDEC活動報告. 14, 2018-
03. TEMDEC事務局
バージョン :
権利関係 :



7. Domestic Telemedicine Workshop

7-1. Indonesia

Joint project of Jakarta International GI Endoscopy Symposium and Live Demonstration (JIGES-LD),
Telemedicine Development Center of Asia (TEMDEC) and TEIN* Cooperation Center (TEIN*CC)

The Second Indonesia Telemedicine Workshop

Date : October 5, Thursday, 2017
Venue : Borobudur Hotel, Jakarta

Program

8:30 - 9:00	Registration		
9:00 - 9:30	Opening Remarks 1. Dadang Makmun, MD, PhD, FACP (Coordinator of Indonesian Telemedicine Network / Head of Department of Internal Medicine Faculty of Medicine Universitas Indonesia / Cipto Mangunkusumo National General Hospital, Jakarta, Indonesia) 2. Prof. Shuji Shimizu, MD, PhD (Director of Telemedicine Development Center of Asia / Director of Department of Endoscopic Diagnostics and Therapeutics Kyushu University Hospital, Japan) 3. Ari Fahrial Syam, MD, PhD, FACP (Chairman of JIGES-LD 2017 / Head of Indonesian Society for Digestive Endoscopy)		
9:30 - 10:30	Session 1 ID-Endoscopy Update: Program Chairs: Ari Fahrial Syam, MD, PhD Commentators: Masrul Lubis, MD, Agung Prasetyo, MD, Fahmi Indrarti, MD, Budi Widodo, MD, Bogi Pratomo Wibowo, MD, Luthfi Parewangi, MD, PhD, Akira Aso, MD, PhD	1. Activity summaries from organizer (10 min) 2. Activity report from Saiful Anwar General Hospital / Universitas Brawijaya (10 min) 3. Activity report from Hasan Sadikin General Hospital / Universitas Padjadjaran (10 min) Panel discussion about programs (plan for next year, problems) (20 min)	Kaka Renaldi, MD Syifa Mustika, MD Dolvy Girawan, MD All presenters
10:30-10:45	Coffee Break		
10:45-12:00	Session 2 ID-Endoscopy Update: Technology Chairs: Rabbinu Rangga Pribadi, MD, Ms. Kuriko Kudo (remote) Commentators: Mr. Muhammad Yunus, Mr. Agus Adianto, Mr. Faizal Hamzah	1. Summaries from chief engineer (10 min) 2. TEMDEC technical report (10 min) 3. Universitas Udayana (10 min) 4. Universitas Sebelas Maret, Surakarta (10 min) 5. Brawijaya University (10 min) Panel discussion about technology (20 min)	Mr. Tunggul Laksono, Mr. Kuswindarto Mr. Shunta Tomimatsu Mr. I Made Adi Kumara Triyanta Yuli Pramana, MD Mr. Poggy Indra Aditya Dr. Viranda Susanti All presenters
12:00-13:00	Lunch and Prayer Join view demonstration: Mr. Yasuichi Kitamura (remote)		
13:00-14:30	Session 3 New Institutions - Presentation by doctor (5 min) (introduction of clinics, medical needs for telemedicine) - Presentation by engineer (5 min) (staff, internet, equipment set-up, experience, current problems, etc.) - Q&A (5 min) Chairs: Triyanta Yuli Pramana, MD, Syifa Mustika, MD, Tomohiko Moriyama, MD Commentators: Mr. Yanuarten Trianto Budiman, Mr. Lukman Harun, Mr. Poggy Indra Aditya, Mr. Nopa Krismanto	1. Fatmawati Hospital, Jakarta 2. Universitas Sam Ratulangi, Manado 3. Universitas Sriwijaya, Palembang 4. Universitas Sumatera Utara Faculty of Dental Discussion (15 min)	- By engineer: Mr. Wawan Salwani - By doctor : Arthur Mawuntu, MD - By engineer: Yonathan Andrian Suparman, MD - By doctor : Andika Okparasta, MD - By engineer: Mr. Dwi Basuki - By doctor : Aini Hariyani Nasution, MD - By engineer: Mr. Agung Laksana
14:30-14:45	Coffee Break		
14:45-15:45	Session 4 Expansion of Specialties and Institutions Chairs: Kaka Renaldi, MD, Aria Kekalih, MD Commentators: Mr. Poggy Indra Aditya, Mr. Wahyudi Hidayat, Viranda Susanti, MD	1. Neurology (10 min) 2. Indonesia Spine Surgery Live Demonstration (10 min) 3. Indonesian Dental (10 min) Panel discussion : Expand toward institutions / specialties (20 min)	Riwanti Estiasari, MD, David Pangeran, MD (Universitas Indonesia) Mr. Wawan Salwani (Fatmawati Hospital) Aqsa Sjuhada, MD (remote) (Soetomo General Hospital / Universitas Airlangga) All presenters
15:45-16:00	Closing Remarks: Ari Fahrial Syam, MD, PhD, FACP		

Organizing Committee

Advisor:	Prof. Shuji Shimizu, MD, PhD	Program:	Prof. Marcellus Simadibrata, MD, PhD, FACP, FASGE	Documentation:	Hasan Maulahela, MD
Chairman:	Ari Fahrial Syam, MD, PhD, FACP		Dadang Makmun, MD, PhD, FACP	Logistics:	Amanda Pitarini Utari, MD
Vice Chairman:	Rabbinu Rangga Pribadi, MD		Prof. Mardani Abdullah, MD, PhD, FACP		Virly Nanda Muzellina, MD
Secretary:	Kaka Renaldi, MD		Ari Fahrial Syam, MD, PhD, FACP		Saskia Aziza Nursyirwan, MD
			Achmad Fauzi, MD	Organizer:	PT. Multi Taruna Sejati
			Syafruddin AR Losolutan, MD		
			Kuriko Kudo, PhD		

Precautions
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The Second Indonesia Telemedicine Workshop

Participants








◆ Role : Doctor

 Dr. Dadang Makmun University of Indonesia / Cipto Mangunkusumo National General Hospital Indonesia	 Dr. Ari Fahrial Syam University of Indonesia / Cipto Mangunkusumo National General Hospital Indonesia	 Dr. Masrul Lubis University of Sumatera Utara / Adam Malik General Hospital Indonesia	 Dr. Agung Prasetyo Diponegoro University / Kariadi General Hospital Indonesia
 Dr. Fahmi Indrarti Gadjah Mada University / Sardjito General Hospital Indonesia	 Dr. Budi Widodo Airlangga University / Soetomo General Hospital Indonesia	 Dr. Bogi Pratomo Wibowo Brawijaya University / Saiful Anwar General Hospital Indonesia	 Dr. Luthfi Parewangi Hasanuddin University / Wahidin Sudirohusodo General Hospital Indonesia
 Dr. Kaka Renaldi University of Indonesia / Cipto Mangunkusumo National General Hospital Indonesia	 Dr. Syifa Mustika Brawijaya University / Saiful Anwar General Hospital Indonesia	 Dr. Dolvy Girawan Padjadjaran University / Hasan Sadikin General Hospital Indonesia	 Dr. Rabbinu Rangga Pribadi University of Indonesia Indonesia
 Dr. Triana Puspita Dewi Fatmawati Hospital Indonesia	 Dr. Purnawan Senoaji Persahabatan Hospital Indonesia	 Dr. Arthur Mawuntu Sam Ratulangi University / RSUP Prof Kandou Indonesia	 Dr. Andika Okparasta Sriwijaya University Indonesia
 Dr. Aini Hariyani Nasution University of Sumatera Utara / RSUP Adam Malik Indonesia	 Dr. Viranda Susanti Brawijaya University / RSUD Dr. Saiful Anwar Indonesia	 Dr. Riwanti Estiasari Universitas Indonesia Indonesia	 Dr. David Pangeran Universitas Indonesia Indonesia
 Dr. Aqsa Sjuhada Airlangga University / Soetomo General Hospital Indonesia	 Dr. Dicky Fakhri National Cardiovascular Center Hospital Harapan Kita Indonesia		

◆ Role : Engineer

 Mr. Muhammad Yunus University of Indonesia Indonesia	 Mr. I Made Adi Kumara Udayana University / Sanglah General Hospital Indonesia	 Mr. Agus Adianto Airlangga University / Soetomo General Hospital Indonesia	 Mr. Faizal Hamzah Padjadjaran University / Hasan Sadikin General Hospital Indonesia
 Mr. Tunggal Laksono Brawijaya University / Saiful Anwar General Hospital Indonesia	 Mr. Kuswindarto Brawijaya University / Saiful Anwar General Hospital Indonesia	 Dr. Triyanta Yuli Pramana Sebelas Maret University / Moewardi General Hospital Indonesia	 Dr. OK Yulizal University of Sumatera Utara / Adam Malik General Hospital Indonesia
 Mr. Achmad Basuki Brawijaya University IDREN Indonesia	 Mr. Yanuarten Trianto Budiman Gadjah Mada University / Sardjito General Hospital Indonesia	 Mr. Lukman Harun Diponegoro University / Kariadi General Hospital Indonesia	 Mr. Pogy Indra Aditya Sebelas Maret University / Moewardi General Hospital Indonesia
 Mr. Nopa Krismanto University of Indonesia / Cipto Mangunkusumo National General Hospital Indonesia	 Mr. Wawan Salwani Fatmawati Hospital Indonesia	 Mr. Iyan Sabita Persahabatan Hospital Indonesia	 Dr. Yonathan Andrian Suparman Sam Ratulangi University Indonesia
 Mr. Dwi Basuki Sriwijaya University Indonesia	 Mr. Agung Laksana University of Sumatera Utara / RSUP Adam Malik Indonesia	 Dr. Aria Kekalih University of Indonesia / Cipto Mangunkusumo National General Hospital Indonesia	 Mr. Wahyudi Hidayat Airlangga University / RSUD Dr. Soetomo Indonesia
 Dr. Budi Rachmat National Cardiovascular Center Hospital Harapan Kita Indonesia			

◆ TEMDEC

 Dr. Shuji Shimizu Kyushu University Hospital Japan	 Dr. Tomohiko Moriyama Kyushu University Hospital Japan	 Dr. Akira Aso Kyushu University Hospital Japan	 Ms. Kuriko Kudo Kyushu University Hospital Japan
 Mr. Shunta Tomimatsu Kyushu University Hospital Japan	 Mr. Yasuichi Kitamura Kyushu University Hospital Japan	 Ms. Chiharu Kodama Kyushu University Hospital Japan	

The Second Indonesia Telemedicine Workshop Jakarta International GI Endoscopy Symposium & Live Demonstration 2017

Date: 5th, 6th (Thu&Fri), October 2017

Venue: Borobudur Hotel, Jakarta, Indonesia

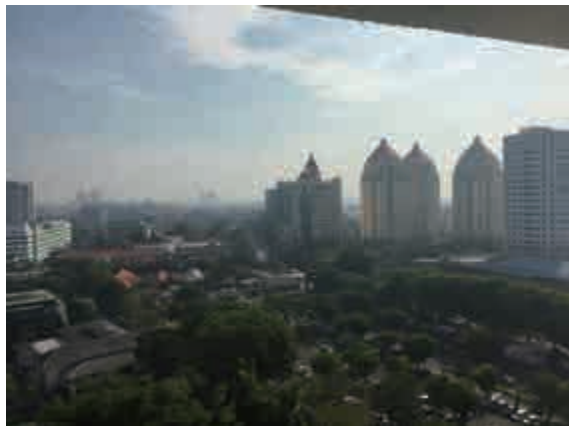


Figure 7-1 Landscape of the central Jakarta



Figure 7-2 Venue of the workshop

A one-year report on the Indonesia's Telemedicine status in several major institutions in the field of Endoscopy, Neurology, Fetus, Dental fields was held during the workshop. We were able to share among all participants the current problems the centers were facing and technical issues in each facility. During the live demonstration, we were able to confirm the difficulties that was encountered due to the network and equipment. A comprehensive review was also conducted by Mr. Shunta Tomimatu (TEMDEC) on the ID endoscopy conference.



Figure 7-3 Prof. Shimizu discussing with participants



Figure 7-4 Remote connection of the two venues

A year after the first workshop and of course thru Prof. Dadang's leadership, teleconferences were held regularly and wonderful results were achieved. However, it was noted that problems on unification of language, time, contents, equipment still exist in Indonesia, and agreed to discuss it further to resolve it.

In the afternoon, during the new institution sessions (Neurology), according to the questionnaire after teleconference, we encountered audiovisual problems in 86.7% of the participants. These technical issues still need to be resolved in the future sessions.

The language barrier was raised as a problem from all fields, but doctors and engineers participating in this workshop never felt problems with language barriers. The doctors, residents, and students hopes to maximize the utilization of telemedicine as an educational tool. In order to utilize telemedicine as an educational tool on a daily basis, it is strongly desired not only in Indonesia but also in Japan to solve the problem of language barrier. We also hope that they will be able to independently hold sessions in the future and we have to support them across language barriers.

In Indonesia, not only doctors but also students and residents want to utilize telemedicine on a daily basis as educational content, and if this technology can be established and be held by themselves in the near future, conferences become possible by Indonesian and problems will be solved soon.

The 2nd Indonesian telemedicine workshop was big step-up forward.
Looking forward to the 3rd Indonesian telemedicine workshop next year.



Figure 7-5 Many female doctors and engineers



Figure 7-6 Venue of Jakarta International GI symposium

On the second day, I attended the Jakarta International GI Endoscopy Symposium & Live Demonstration 2017 sponsored by The Indonesian Society for Digestive Endoscopy (ISDE). More than 25 live demonstrations and lectures with various topics were held in a span of 2 days. Active audience participation (questions and answers) in English were appreciated during the sessions. Although I stayed for only 2 days, I was able to attend a fulfilling meeting on both days and acquired a lot of knowledge during the trip.

My overwhelming gratitude to Professor Shimizu for this opportunity.

(Akira Aso)

7-2. The Philippines

Joint project of Telemedicine Network of the Philippines (TNP) and
Telemedicine Development Center of Asia (TEMDEC) in conjunction with the ELSA/PALES Annual Congress 2017

The Second Philippine Telemedicine Workshop

Date : November 18, Saturday, 2017

Venue : Mactan Ballroom 1, Shangri-la Mactan, Cebu City

Course Description

This is a collaborative endeavor by the Telemedicine Network of the Philippines (TNP) and Telemedicine Development Center of Asia (TEMDEC) from Kyushu University, Fukuoka, Japan, supported by the Advance Science & Technology Institute (ASTI) of the Department of Science and Technology (DOST) which aims to develop and expand the knowledge and network capabilities of the different healthcare institutions of the country. This course is also supported by Asi@Connect and TEIN* Cooperation Center (TEIN*CC).

Course Objective

- 1.) To learn and understand the latest developments and technology in telemedicine.
- 2.) To enhance the collaboration among the national and international medical network community towards advancing medical education.
- 3.) To learn the common challenges encountered in setting up a telemedicine unit.

Target Delegates

- 1.) Doctors, nurses, and other allied professionals interested in telemedicine.
- 2.) Medical information technology engineers, leaders, managers and IT enthusiasts.

Program



12:00	Registration	Ms. Ryoko Yoshida Ms. Mai Gacutan
12:30 - 13:00	Master of Ceremony Welcome Address / Opening Remarks Introduction of Telemedicine (Yesterday, Today and Tomorrow) History & Present Telemedicine in the Philippines	Billy James Uy, MD, NKT Jeffrey J.P. Domino, MD, TNP / SLMC Shuji Shimizu, MD, TEMDEC Mr. Bani Lara, ASTI-DOST
13:00 - 14:00	Telemedicine Among Hospitals Presentation from each hospital by engineer (staff, internet, equipment set-up, experience, current problems, etc.) (8min. each) Chairs: Mr. Alvin de Gracia, Ms. Kuriko Kudo (remote) Commentators: Mr. Bryan Gatan, Mr. Mark Henly N. Quilala, Ms. Yoshiko Houkabe	1. UP-Manila - PGH ————— Mr. Darwin Laurencio 2. St. Luke's Medical Center ————— Mr. Nathanael Cariaga 3. Baguio General Hospital ————— Ms. Maritess Baloran 4. University of Cebu Medical Center ————— Ms. Gigi Carcallas 5. Davao Doctor's Hospital ————— Mr. Gody Leona Open Forum – problems, test plans
14:00 - 15:15	New Institutions - By doctor (introduction of clinics, experience, medical needs for telemedicine) - By engineer (staff, internet, equipment, current problems, etc.) (5min. each) Chairs: Edgardo Cabrera, MD, Romeo Vincy Naranjo, MD, Mr. Bani Lara Commentators: Yoshihiko Sadakari, MD, Mr. Shunta Tomimatsu	1. East Avenue Medical Center ————— Doctor: Mark Lester Sy, MD IT Engineer: Mr. Jaffe Ponce G. Serenio 2. Makati Medical Center ————— Doctor: Jaymel Castillo, MD 3. Vicente Sotto Hospital ————— Doctor: Christopher Samson, MD IT Engineer: Mr. Allen Rama 4. Aborlone Medicare Hospital ————— Doctor: Aris Dexter Rana, MD IT Engineer: Mr. Mark Philip Dela Cruz 5. De La Salle University Medical Center ————— Doctor: Michael M. Lawenko, MD 6. Dagupan Doctors Hospital ————— Doctor: Milben Malbog, MD IT Engineer: Mr. Richard John Garcia Discussion
15:15 - 15:30	Coffee Break	
15:30 - 16:40	Telemedicine Among Medical Specialties Presentation from each specialty (5min. each) Chairs: Catherine Teh, MD, Banny Bay Genuino, MD, Alvin Marcelo, MD (remote) Commentators: Mark Melendres, MD, Taiki Moriyama, MD,	1. Significance of Telemedicine in Minimally Invasive Surgery ————— Juvie Villaflor, MD Dagupan Doctors Hospital 2. Experience of Telemedicine in Gastrointestinal Endoscopy ————— Mark Anthony DeLusong, MD UP-PGH 3. The Use of Telemedicine in Infectious Disease Issues ————— Nobuo Saito, MD San Lazaro Hospital 4. Telemedicine in Ophthalmology ————— Jun Mendiola, MD Veteran's Memorial Medical Center 5. Future Plans for Telemedicine Network of the Philippines ————— Katherine Panganiban, MD TNP / SLMC Open Forum
16:40 - 17:00	Awarding of Certificates Closing Remarks	Shuji Shimizu, MD Catherine Teh, MD
18:30	DINNER Fellowship	Danilo Castro, MD


















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The Second Philippine Telemedicine Workshop

Participants



◆ Doctor

 Dr. Jeffrey J.P. Domino TNP / SLMC Philippine	 Dr. Billy James Uy NKTi Philippine	 Dr. Edgardo Cabrera SLMC Philippine	 Dr. Romeo Vincy Naranjo Davao Doctors Hospital Philippine
 Dr. Mark Lester Sy East Avenue Medical Center Philippine	 Dr. Jaymel Castillo Makati Medical Center Philippine	 Dr. Christopher Samson Vicente Sotto Hospital Philippine	 Dr. Aris Dexter Rana Aborlane Medicare Hospital Philippine
 Dr. Rafael Alexis Resurreccion De La Salle University Medical Center Philippine	 Dr. Milben Malbog Dagupan Doctors Hospital Philippine	 Dr. Catherine Teh TNP / NKTi Philippine	 Dr. Banny Bay Genuino Baguio General Hospital Philippine
 Dr. Alvin Marcelo TNP / UP-PGH Philippine	 Dr. Mark Melendres SLMC Philippine	 Dr. Juvie Villaflo Dagupan Doctors Hospital Philippine	 Dr. Mark Anthony DeLusong UP-PGH Philippine
 Dr. Nobuo Saito San Lazaro Hospital Philippine	 Dr. Jun Mendiola Veteran's Memorial Medical Center Philippine	 Dr. Katherine Panganiban TNP / SLMC Philippine	 Dr. Danilo Castro SLMC Philippine








◆ Engineer

 Mr. Bani Lara TNP / ASTI-DOST Philippine	 Mr. Alvin de Gracia TNP / ASTI-DOST Philippine	 Mr. Bryan G. Gatan SLMC Philippine	 Mr. Mark Henly N. Quilala ASTI-DOST Philippine
 Mr. Darwin Laurencio UP-Manila - PGH Philippine	 Mr. Nathanael Cariaga TNP / SLMC Philippine	 Ms. Maritess Baloran Baguio General Hospital Philippine	 Ms. Gigi Carcallas University of Cebu Medical Center Philippine
 Mr. Gody Leona Davao Doctor's Hospital Philippine	 Mr. Jaffe Ponce G. Serenio East Avenue Medical Center Philippine	 Mr. Allen Rama Vicente Sotto Hospital Philippine	 Mr. Mark Philip Dela Cruz Aborlane Medicare Hospital Philippine
 Mr. Richard John Garcia Dagupan Doctors Hospital Philippine			

◆ Secretariat

 Ms. Mai Gacutan SLMC Philippine

◆ TEMDEC

 Dr. Shuji Shimizu Doctor Japan	 Dr. Taiki Moriyama Doctor Japan	 Dr. Yoshihiko Sadakari Doctor Japan	
 Ms. Kuriko Kudo Engineer Japan	 Ms. Yoshiko Houkabe Engineer Japan	 Mr. Shunta Tomimatsu Engineer Japan	 Ms. Ryoko Yoshida Coordinator Japan

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The 2nd Philippines Telemedicine Workshop

【Date】 Nov. 12, 2017

【Venues】 Shangri-La's Mactan Hotel (the Philippines),
Kyushu University Hospital (Japan)

【Comments】

On Nov. 12, 2017, the 2nd Philippines Telemedicine Workshop took place combined with ELSA (Endoscopic and Laparoscopic Surgeons of Asia) in Cebu, the Philippines.

This workshop was held with the collaboration between Telemedicine Network of the Philippines (TNP) and Telemedicine Development Center of Asia (TEMDEC, Kyushu University Hospital, Fukuoka Japan). Telemedicine is strongly expected to be an important medical option in the Philippines, which has many small islands.

The purposes of the workshop were as follows: (1) to understand the up-to-date information and technology about telemedicine, (2) to strengthen the international and domestic collaboration for advanced medical education, (3) to establish a telemedicine system in each facility.

Firstly, the current status of telemedicine in Japan and the Philippines was introduced by Prof. Shimizu (TEMDEC, Japan) and Dr. Domino (St. Lukes Medical Center, the Philippines), and several engineers reported about the telemedicine systems in their facilities, including the venue, University of Cebu Medical Center.

Secondly, some facilities which had newly established telemedicine system were introduced by respective their doctors or engineers. Makati Medical Center was also introduced by Dr. Jaymel Castillo who had visited Kyushu University Hospital as an assistant professor for a year. We hope to collaborate more with Makati Medical Center in the future. A presentation about telemedicine of infectious diseases from Dr. Saito, San Lazaro Hospital (who had once visited Kyushu University Hospital) was very interesting.

In this workshop, the participants were from various fields, who were medical doctors with different specialties, engineers and IT experts. Some new facilities could be added to the telemedicine network in the Philippines.

It is very important to keep contacting and sharing activities among the team. We hope this workshop will keep developing for a long time.

(Taiki Moriyama)



Figure 7-7 Dr. Domino's speech about telemedicine of the Philippines



Figure 7-8 Dr. Saito's speech about infectious diseases in the Philippines



Figure 7-9 Connected with Kyushu University Hospital.



Figure 7-10 Many participants attended this workshop.

7-3. Chile



TELEMEDICINE WORKSHOP

Chile 2017

- 1 Hospital Regional de Iquique
- 2 Universidad de Antofagasta
- 3 Universidad Católica del Norte
- 4 Hospital G. Fricke Viña del Mar
- 5 Clínica Alemana de Santiago
- 6 Universidad Católica de Chile
- 7 Universidad de Chile
- 8 Clínica Las Condes
- 9 Hospital Padre Hurtado
- 10 Instituto Nacional del Cáncer
- 11 Hospital Militar de Santiago
- 12 Hospital San Borja Arriarán
- 13 Universidad de Concepción
- 14 Hospital Las Higueras de Talcahuano
- 15 Hospital de Curanilahue
- 16 Hospital de Angol
- 17 Clínica Alemana de Temuco
- 18 Hospital Base de Valdivia
- 19 Hospital Regional de Puerto Montt
- 20 Hospital Clínico Magallanes
- 21 Asoc. Chilena de Informática en Salud
- 22 REUNA Chile
- 23 Sociedad Chilena de Gastroenterología





Chilean Telemedicine Workshop

Joint project of the Chilean Society of Gastroenterology, Telemedicine Development Center of Asia (TEMDEC) and Japan Society for the Promotion of Science (JSPS)

Date: Wednesday, November 29th, 2017

Venue: Salón Ovo, Enjoy Convention Center, Coquimbo, Chile.

PROGRAM

11:00 - 13:00	Registration	
13:00 - 13:20	Introduction Dr. Pablo Cortés (Chilean Society of Gastroenterology) Prof. Shuji Shimizu (Director of Telemedicine Development Center of Asia/Director of Department of Endoscopic Diagnostics and Therapeutics Kyushu University Hospital, Japan)	
13:20 - 14:30	Session 1 - Hospital Introduction: Clinics & Technology <p>This session will present the different hospital profiles and existing Telemedicine set-up, activities and plans.</p> <p>Presentation, 5 minutes per institution</p> <ul style="list-style-type: none"> Doctor (introduction of clinics, experience, medical needs regarding Telemedicine) Engineer (staff, internet, equipment, current problems, etc.) 	Chairs: Dr. Andrés Donoso, Dra. Angélica Avendaño <ol style="list-style-type: none"> Hospital Regional de Iquique - Doctor: Jorge Romero - Engineer: Sergio Zambra Universidad de Antofagasta, Antofagasta - Doctor: Sergio Ledesma - Engineer: Willian Briceño Universidad Católica del Norte, Coquimbo - Doctor: Gustavo Bresky - Engineer: Richard Pallero Hospital Dr. Gustavo Fricke, Viña del Mar - Doctor: Carlos Agüero - Engineer: Eric Moncada Clínica Alemana de Santiago, Santiago - Doctor: Antonio Rollán - Engineer: Harold Sánchez Pontificia Universidad Católica de Chile, Santiago - Doctor: Andrés Donoso - Engineer: Francisco Schmidt Universidad de Chile, Santiago - Doctor: Cristian Montenegro - Engineer: Victor Castañeda Clínica Las Condes, Santiago - Doctor: Francisco López - Engineer: Claudio Oyarce Hospital Padre Hurtado, Santiago - Doctor: Luis Méndez - Engineer: Silvia Escobar Instituto Nacional del Cáncer (INC), Santiago - Doctor: Rodney Stock - Engineer: Cristian Mancilla Red Universitaria Nacional, REUNA (10 min) - Engineer: Sandra Jaque <p>Discussion</p>
14:30 - 14:50	Coffee Break	

14:30 - 14:50	<p>Session 2 - Hospital Introduction: Clinics & Technology</p> <p>This session will present the different hospital profiles and existing Telemedicine set-up, activities and plans.</p> <p>Presentation, 5 minutes per institution</p> <ul style="list-style-type: none"> • Doctor (introduction of clinics, experience, medical needs regarding Telemedicine) • Engineer (staff, internet, equipment, current problems, etc.) 	<p>Chairs: Dr. Luis Méndez, Eng. Francisco Schmidt</p> <ol style="list-style-type: none"> 1. Hospital Militar de Santiago, Santiago <ul style="list-style-type: none"> - Doctor: Raúl Araya - Engineer: Hernán Pimentel 2. Hospital Clínico San Borja Arriarán, Santiago <ul style="list-style-type: none"> - Doctor: Verónica Silva - Engineer: Alvaro Ramírez 3. Universidad de Concepción, Concepción <ul style="list-style-type: none"> - Doctor: Carlos Aruta - Engineer: Angélica Avendaño 4. Hospital Las Higueras, Talcahuano <ul style="list-style-type: none"> - Doctor: Gustavo Delgado - Engineer: Lorena Carrillo 5. Hospital Dr. Mauricio Heyermann Torres, Angol <ul style="list-style-type: none"> - Doctor: Julián Cordero - Engineer: Luis Santander 6. Hospital de Curanilahue, Curanilahue <ul style="list-style-type: none"> - Doctor: Andrés Jorquera - Engineer: Luis Vega 7. Clínica Alemana de Temuco, Temuco <ul style="list-style-type: none"> - Doctor: Francisco Biel - Engineer: Patricio Quezada 8. Hospital Base de Valdivia, Valdivia <ul style="list-style-type: none"> - Doctor: Jorge Flández - Engineer: Myriam Collipal 9. Hospital Regional, Puerto Montt <ul style="list-style-type: none"> - Doctor: Rodrigo Mansilla - Engineer: César Villagra 10. Hospital Clínico Magallanes, Punta Arenas <ul style="list-style-type: none"> - Doctor: Stanko Karelavic - Engineer: Luis Muñoz 11. Asociación Chilena de Informática en Salud (ACHISA) <ul style="list-style-type: none"> - Engineer Maurizio Mattoli (10 min) <p>Discussion</p>
16:00 - 16:30	Coffee Break	
16:00 - 16:30	Session 3 – Demonstration with Manual Book	<p>Chairs: Eng. Sandra Jaque – Eng. Harold Sánchez</p> <p>Presenters: Eng. Kuriko Kudo, Eng. Francisco Schmidt</p>
17:10 - 17:50	Session 4 – Technical Discussion towards the Realization of Telemedicine	<p>Chairs: Eng. Kuriko Kudo, Eng. Francisco Schmidt</p> <ol style="list-style-type: none"> 1. Technical Plan (10 mins + Q&A) <ul style="list-style-type: none"> - Engineer: Francisco Schmidt <p>Discussion (20 mins)</p>
17:50 - 18:00	Closing remarks	Eng. Francisco Schmidt and Prof. Shuji Shimizu
18:00 - 19:00	At networking	

This project was funded in part by KAKENHI Grant No. 16H02773 from the Japan Society for the Promotion of Science.

Doctors

	Dr. Carlos Agüero Hospital Gustavo Fricke, Viña del Mar Viña del Mar, Chile		Dr. Raúl Araya Gastroenterólogo, Endoscopista Hospital Militar de Santiago Universidad de Los Andes Santiago, Chile		Dr. Carlos Aruta Gastroenterólogo Jefe Sección Gastroenterología, Dep. de Medicina Interna, Universidad de Concepción
	Dr. Francisco Biel Medicina Interna Gastroenterología Clínica Alemana Temuco Universidad de la Frontera Temuco, Chile		Dr. C. Gustavo Bresky Secretario de Vinculación con el Entorno. Facultad de Medicina Universidad Católica del Norte Coquimbo, Chile		Dr. Julián Cordero Médico Gastroenterólogo Hospital Dr. Mauricio Heyermann Torres Angol, Chile
	Dr. Gustavo Delgado Gastroenterólogo Servicio de Medicina Hospital Las Higueras, Servicio de Salud Talcahuano Talcahuano, Chile		Dr. Andrés Donoso Dep. de Cirugía Digestiva Facultad de Medicina Pontificia Universidad Católica de Chile		Dr. Jorge Flández Hospital Base Valdivia Clínica Alemana de Valdivia Universidad Austral Valdivia, Chile
	Dr. Stanko Karelovic Punta Arenas, Chile		Dr. Sergio Ledesma Hospital Regional Antofagasta Jefe unidad de Endoscopia Universidad de Antofagasta Antofagasta, Chile		Dr. Francisco López Médico Jefe Unidad de Coloproctología Clínica las Condes Santiago, Chile
	Dr. Luis Méndez Gastroenterólogo Clínica Alemana Jefe unidad de Endoscopia Hospital Padre Hurtado Santiago de Chile		Dr. Cristián Montenegro Gastroenterólogo Hospital Clínico Universidad de Chile Santiago, Chile		Dr. Antonio Rollán Gastroenterólogo Facultad de Medicina Clínica Alemana Santiago Universidad del Desarrollo Santiago, Chile
	Dr. Verónica Silva Gastroenterología Hospital Clínico San Borja Arriarán Santiago, Chile		Dr. Rodney Stock Jefe Servicio Endoscopia Instituto Nacional del Cáncer Santiago, Chile		Dr. Shuji Shimizu, MD, PhD Director, Telemedicine Development Center of Asia (TEMDEC) Kyushu University Hospital, Japan.

Engineers

	Ms. Angélica Avendaño Profesor Asociado Directora Unidad de Telemédica Facultad de Medicina Universidad de Concepción		Mr. William Briceño Departamento de Informática Hospital Regional Antofagasta "Dr. Leonardo Guzmán" Antofagasta, Chile		Ms. Lorena Carrillo Área Tecnologías de Información y Comunicaciones Hospital Las Higueras Talcahuano, Chile
	Mr. Víctor Castañeda PhD Proyecto Telemédica CIMT+HCUCH Hospital Clínico Universidad de Chile Santiago, Chile		Ms. Myriam Collipal Unidad Gestión de Proyectos Departamento TIC Servicio Salud Valdivia Valdivia, Chile		Ms. Silvia Escobar Ingeniero en Informática Hospital Padre Hurtado Santiago, Chile
	Mr. Cristián Mancilla Infraestructura Instituto Nacional del Cáncer Santiago, Chile		Mr. Maurizio Mattoli ICIM, Clínica Alemana- Universidad del Desarrollo Santiago, Chile Asociación Chilena de Informática en Salud		Mr. Eric Moncada Unidad de Informática Hospital Dr. Gustavo Fricke Viña del Mar, Chile
	Mr. Claudio Oyarce Oficina Audiovisual Dirección Académica Clínica Las Condes Santiago, Chile		Mr. Richard Pallero Jefe Sección Soporte y Laboratorio Unidad de Computación Universidad Católica del Norte Coquimbo, Chile		Mr. Hernán Pimentel Departamento Informática (DICE) Sección Análisis y Desarrollo Hospital Militar de Santiago Santiago, Chile
	Mr. Álvaro Ramírez Departamento de Informática Profesional Referente TIC Proyecto SIDRA Hospital Clínico San Borja Arriarán Santiago, Chile		Mr. Harold Sánchez Ingeniero de Sistemas Gerencia de Tecnología Clínica Alemana de Santiago Santiago, Chile		Mr. Luis Santander Departamento de Informática Hospital Dr. Mauricio Heyermann Torres Angol, Chile
	Mr. Luis Vega Unidad de Informática Hospital Provincial Dr. Rafael Avaria V. Curanilahue, Chile		Mr. César Villagra Telecomunicación y Redes Tecnología de la Información Ministerio de Salud Hospital Puerto Montt Puerto Montt, Chile		Mr. Sergio Zambra Hospital Regional de Iquique Iquique, Chile
					Ms. Kuriko Kudo Telemedicine Development Center of Asia (TEMDEC) Kyushu University Hospital, Japan

The First Chilean Telemedicine Workshop

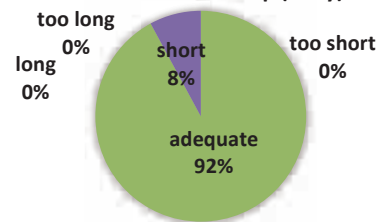
1		2		3		4		5		6		7	
very good	35	too long	0	very useful	28	very useful	34	yes	38	yes	16	yes	32
good	9	long	0	useful	9	useful	4	probably yes	0	no	22	probably yes	5
poor	0	adequate	35	not useful	0	not useful	0	probably no	0			probably no	0
very poor	1	short	3	not very useful	1	not very useful	0	no	0			no	0
		too short	0										

Q1. About the program



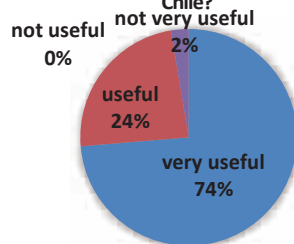
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Q2. About the term; The 1st Chilean Telemedicine Workshop (1day)



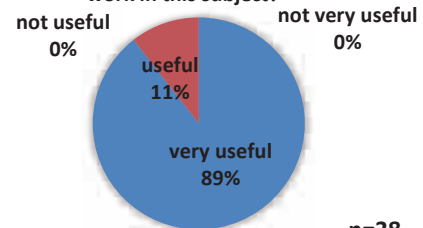
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Q3. Do you think this workshop has been useful for telemedicine development in Chile?



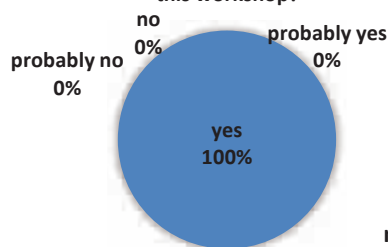
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Q4. Do you think this workshop has been useful to know Chilean different team work in this subject?



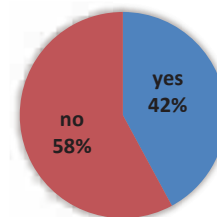
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Q5. Do you think initiatives with other national centers can be developed from this workshop?



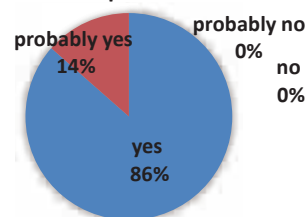
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Q6. Did you know about the systems that were introduced?



n=38

Q7. Do you want to recommend this workshop to others?



n=37

The First Chilean Telemedicine Workshop Report

Date: 29th (Wed), November 2017

Venue: Salon OVO, Convention Center, Coquimbo, Chile

I participated in the First Chilean Telemedicine Workshop, on 29th, November 2017 (Figure 7-11). This was a joint project of Congress Chilean Gastroenterology and TEMDEC, supported by TEIN* CC. The workshop schedule was from afternoon 13:00 to 18:00. Doctors and engineers were invited from 22 main hospitals and universities, to start-up telemedicine activities in Chile. As Chile is well-known as a very long country from north to south, the participants from north to south were gathered in the venue. The northern most hospital was Hospital Regional de Iquique, Tarapaca region, and the southern most hospital was Hospital Clinico Magallanes, Magallanes region (Figure 7-12). Firstly, we had greetings from Dr. Pablo Cortes and Dr. Shimizu who were both directors of the congress and TEMDEC, respectively. Directors expressed the importance of telemedicine with past activities in Chile, and gave hopeful messages to all participants.

The first and second sessions were mainly introductions of the different hospital. Doctors and engineers of all hospitals gave presentations. Doctors presented clinical and medical needs for telemedicine, and engineers presented Internet, equipment, experience and problems. Table 7-1 is a summary of the technical conditions of all hospitals. We were surprised that many hospitals already have experiences of case conference, and over 70%(16/22) of all institutions already have teleconference system like polycom, cisco etc. However, over half of them (10 institutions) used exclusive network, so they cannot use their teleconference systems for others. Also, all institutions didn't have multipoint control unit (MCU) and majority of their activities were point to point connection. Fortunately, REUNA have installed the Vido platform, and we had an agreement with REUNA to support telemedicine activities using their platform. Since we got many suggestion regarding activity, Dr. Pablo Cortes summarized that they will discuss activity plans among all participants using the mailing list.



Figure 7-11 Poster



Figure 7-12 Participating hospitals

Table 7-1 Technical condition of each hospitals shared in the workshop

Hospital	Network	System	Experience	Problem
1.Hospital Regional de Iquique	-	Polycom	Case conf with neiboughrs	No MCU
2.Universidad de Antofagasta	200M	-	Case conf	Echo problem No MCU
3.Universidad Católica del Norte	REUNA:1G Com:211M	Lifesize express 200*5, Polycom VSX 7000*3,	Case conf with Antofagasta	No MCU
4.Hospital G. Fricke Viña del Mar	PRENEC(exclusive)	Polycom, Cisco	with patient, Endosc, surg, pediatric.	Exclusive NW No MCU
5.Clinica Alemana de Santiago	-	Polycom*4, Huawei*4, Vidyo	With TEMDEC	No MCU
6.Universidad Católica de Chile	REUNA, Nat'l:1.2G Int'l:0.8G	H.323, Vidyo	With TEMDEC	No MCU
7.Universidad de Chile	REUNA:10G	Cisco,Polycom, Lifesize,Vidyo, Zoom,webex...	-	No MCU
8.Clínica Las Condes	PRENEC(exclusive)	Sony PCS XG55, Cisco	Endosc. proj. with TMDU. P2P with 38 H in CO, PR, EC	Exclusive NW, No MCU, SD image from endsc center.
9.Hospital Padre Hurtado	Collaboration virtual:1G (main/backup)	No H323 but bollowing by C Aremana	Public Hosp. Health NW	No MCU
10.Instituto Nacional del Cáncer	PRENEC(exclusive):1G	Polycom HDX, software system	PRENEC	Exclusive NW No MCU
11.Hospital Militar de Santiago	Military(exclusive)	-	With patient	No delicated eng & budget, Exclusive NW, No MCU
12.Hospital San Borja Arriarán	PRENEC(exclusive)	-	Monthly conf. dermatology	Exclusive NW No MCU
13.Universidad de Concepción	REUNA,Nat'l:130M, Int'l: 1G Com: 800M	Polycom HDX 7000, Vidyo	Telemed unit. (admin. Dr. Eng.) Many activities	No MCU
13.Hospital Las Higueras de Talcahuano	100M	Cisco	In many speciality	No MCU
14.Hospital de Curanilahue	100M Satellite:2M	Polycom(VLAN), Cisco CMA, Jabber	-	Exclusive NW, No MCU
15.Hospital de Angol	PRENEC(exclusive)	Polycom HDX8000*2	Darmatology, Cardiology	Exclusive NW No MCU
17.Clínica Alemana de Temuco	Nat'l:50M Int'l: 20M	Polycom HDX8000	Monthly with C Aremana	NW latency No MCU
18.Hospital Regional de Valdivia	PRENEC(exclusive): 40M	-	Telemed unit. (42 workers) ,Pathology, ophthalmology	Exclusive NW No MCU
19.Hospital Regional de Puerto Montt	VLAN	PolycomHDX8000, HDX7000 Cisco EX60(VLAN)	Inside hospital	Exclusive NW No MCU
20.Hospital Clinico Magallanes	PRENEC(exclusive):10 OM Com: 100M	PolycomHDX8000, 7000(VLAN)	Delicated staff (admin. Eng.) activities	Exclusive NW No MCU
21.Asoc. Chilena de Informática en Salud	-	-	Nat'l and int'l projects	No MCU
22.REUNA Chile	REUNA,36inst. 7Hosp, 1-10G	Vidyo portal	-	-

Com:Commercial, M or G :Mbps or Gbps, MCU: Multipoint control unit,
Nat'l: National, Int'l: International, NW:Network

After coffee break, I made a demonstration of VidyoDesktop in session 3. We distributed the engineering manual that we published, and engineers tried to connect VidyoDesktop using their own devices. We also had connection from our Mexican friend, Ms. Angeles Olvera, an engineer from National Institute of Medical Sciences and Nutrition. For the final session, we had a technical discussion toward the realization of activities. I took charge as a chair of the session with Mr. Francisco, the chief engineer of Chile. In this session, many questions and comments were raised. As already presented during session 1 and 2, the main problems were difficulties in application of existing systems and the limitation of the resources for the activities. Since the software systems doesn't require special environment like network and system, it was decided to start connecting test VidyoDesktop with TEMDEC or REUNA platform read by Mr. Francisco.

Through this one-day workshop, we shared our experiences, knowledge, and problems. We discussed well and hopefully the problem will be solved. It was a meaningful kick-off workshop. We are looking forward to seeing all again in the next year.

(Kuriko Kudo)



Figure 7-13 Scenes of workshop

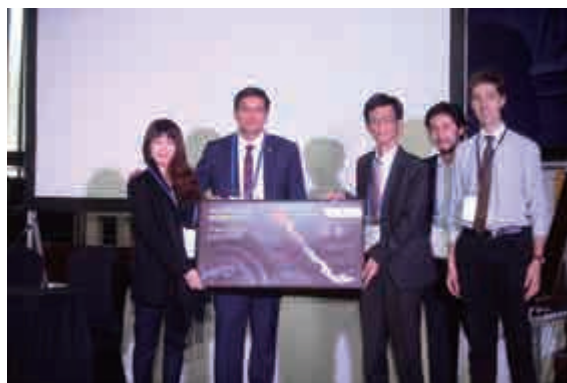


Figure 7-14 Photo with organizers



Figure 7-15 Group photo at the venue