Activity Report of Asia-Pacific Medical Network Project in Kyushu University Hospital Vol. 4

April 2008

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Supported by
Core University Program of JSPS and KOSEF
Kyushu University
(Interdisciplinary Programs in Education and Projects in Research Development)
Kyushu University Hospital, Division of Asian Medical Cooperation
Asia-Pacific Advanced Medical Network
Hyeonhae/Genkai Project
Kyushu GigaPOP
Kyushu Electric Power Company
Johnson & Johnson K.K.
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1. Preface

A commemorative 100th teleconference event was held last June, just four years and four months since our first such event in February, 2003. During the past fiscal year, one of our notable achievements was to make a successful connection to Europe. Live demonstrations were held with participants in Germany, France, and Italy. New technical achievements saw a system for simultaneous 8-station live demonstration with a security system established and successfully used in actual settings. Twenty-six teleconferences were performed during the past year; 16 countries were connected with 65 leading hospitals and meeting venues. Another important achievement was the organization of the “Asia Telemedicine Symposium.” Over 150 medical staff and engineers joined in discussions of standardization of local set-ups and made plans for future activities. It was our great honor to invite guests from the Ministry of Education, Culture, Sports, Science and Technology and from the Japan Society for the Promotion of Science. As well, having the Deputy President of Kyushu University and the Director of Kyushu University Hospital was an honor.

During these past 5 years, our project has rapidly expanded into a wide area of the Asia-Pacific region. There is no doubt that this expansion will continue. In parallel with the growth of the associated infrastructural, we need to move on to the second stage. This is one where we work on making the content of the conferences more attractive. We initiated our “Early Gastric Cancer Conference” to share our knowledge about making accurate diagnoses and how to provide appropriate treatment for a patient. We are planning to have large-scale regular teleconferences in the field of surgery and endoscopy. We are also exploring new fields like remote medicine and cardiac catheterization. We have a plan to establish a new department called the “Asia Telemedicine Development Center” at the Kyushu University Hospital. A working group has been formally organized. Technically, we need to investigate new research regarding the transmission of high-definition quality, and have even more stations at a multi-site teleconference, a possible application of the Conference XP and annotation system, and more. In this Olympic year, China is the main target for new connections as there are still just a few medical institutions connected.

The APAN medical working group is at the center of our field of activity. We always keep in mind that good harmony and comfortable friendships between our medical and engineering staff is crucial for this projects success.

March 2008

Kyushu University Hospital
Shuji Shimizu, MD. PhD
2. Achievements of this fiscal year

**Major achievements 2007.4–2008.3**

1. First link to Europe  
   - Collaboration with GEANT2, TEIN2
2. Live demonstration among eight stations with security
3. Many new connecting sites
4. Asia Telemedicine Symposium
5. Working group for Asia Telemedicine Development Center

Here is a list of major achievements in this fiscal year.

**What is Academic Network?**

<table>
<thead>
<tr>
<th></th>
<th>Regular Internet</th>
<th>Academic Network</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set-up</td>
<td>Service Providers</td>
<td>Governments</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Service Providers</td>
<td>Researchers</td>
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<tr>
<td>Costs</td>
<td>Price list</td>
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<tr>
<td>Bandwidth</td>
<td>Price list</td>
<td>Fastest</td>
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<td>Contents</td>
<td>No restriction</td>
<td>R&amp;E only</td>
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<tr>
<td>Performance</td>
<td>Not bad, not good</td>
<td>Best tuned</td>
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<tr>
<td>Technology</td>
<td>Not advanced</td>
<td>IPv6, HDV, NGI</td>
</tr>
<tr>
<td>Support</td>
<td>Service Agreement</td>
<td>24 hr X 7 days</td>
</tr>
</tbody>
</table>

The characteristics of Academic Network (Research and Education Network: REN)
2. Achievements of this fiscal year

Academic Network in Western countries

**USA:** Internet2 connects over 200 universities.

**Europe:** GÉANT2 connects 34 countries.

Academic Network is widely spread also in western countries.

Live Demonstration of Endoscopy with Europe

Bangkok, TH

Xian, CN

Fukuoka, JP

Seoul, KR

Kyoto, JP

Hamburg, GR

Kuala Lumpur, MY

Taipei, TW

The first connection to Europe in August, 2007, at APAN-Xian.
Asia Telemedicine Symposium was held in December, 2007, at Fukuoka, Japan.

Doctors and engineers met together from 8 countries with over 150 participants.
2. Achievements of this fiscal year

**Asia-Pacific Advanced Network (APAN)**

Current topology of Asia-Pacific Advance Network (APAN).

**Advanced academic network is worldwide.**

Three major groups to be organized & communicated

Academic network connects the world for research and education.
3. Network news

This chapter introduces a schematic of the network utilized by the AQUA Project. Figure 1 shows the regional Internet components in use as at March 2008.

![Diagram of the 2008 AQUA Project Internet Environment](image)

The Internet environment of Kyushu University is via SINET and QGPOP. Kyushu University Hospital is a subsidiary of Kyushu University and has access to these connections. QGPOP is connected at very high speed to many countries in Asia, as well as to the worldwide advanced Research and Education (R&E) network which provides the primary connectivity for Kyushu University. Since the stability of R&E does not exceed that of commodity networks, QGPOP is used to avoid instability and potential disruptions of the Kyushu University network. Areas not connected by QGPOP can be reached from Kyushu University via SINET. Though SINET also focuses on Research and Education, it requires additional policy considerations; therefore QGPOP remains the primary connection.

The following summary describes the development of the Internet system used by AQUA Project until 2006. Prior to 2003, high-speed Internet access for research and education from Japan to the United States and Taiwan had been available through APAN. In 2003, a 1G Internet service between Japan and Korea was started by APII. Rapid Internet access from Japan to China became possible in 2004 through NICT and to Korea and China through APII, enabling...
experiments to be conducted with others in China. In 2005, JGN2 of NICT initiated high-speed Internet access to Thailand and Singapore. New activities with Singapore and Thailand were initiated that made use of these high-speed links.

Beginning in 2006, the TEIN2 connection provided 620 Mbps links to NOCs in Singapore and Hong Kong, 150Mbps links to Malaysia and Thailand through the NOCs, and 45 Mbps links to Vietnam and Indonesia. The Philippines has also been connected at 150Mbps via TEIN2. Australia is also successfully connected at 1Gbps via the United States, and an additional 620Mbps link with short latency is available through TEIN2.

Since high-bandwidth links of 620Mbps, 150Mbps and 45Mbps are available only to NOCs, the final obstacle for AQUA is to improve local NOC connectivity to domestic Internet services. The Hong Kong NOC, for example, has many high-speed links, but because HARNET, a Hong Kong domestic Internet group does not connect to TEIN2 with sufficient speed, there has been problems connecting to HKCU (Hong Kong Chinese University), despite the presence of a high-speed link to Japan. HKCU has a 1G link to CSTnet, so the AQUA project used this high-speed link for experiments with HKCU instead of the TEIN2 link. Also, in Singapore, SingAREN does not link with adequate speed to TEIN2 NOC, so the JGN2 link is used for experiments with the NUS (National University of Singapore). However, the link speed of JGN2 to Thailand is just 45Mbps, so even though there is no direct TEIN2 connection to Thailand from Japan, the TEIN2 link is sometimes utilized to provide higher bandwidth.

In 2007, the AQUA’s activities have been extended to UA and the EU. During APAN at Xian in August 2007, Germany and France were connected. A demonstration between Kyushu University Hospital and Italy was accomplished. At APAN in Hawaii in January 2008, UCI was connected. From Japan, SINET3 reaches Los-Angeles and New York and most packets to inside the UA are delivered through Los-Angeles and packets to the EU are delivered through New York. The bandwidth between Japan and the UA and between the US and EU are 10Gbps. Thus there is no problem about bandwidth.

In January 2007, India joined AQUA. The network path from Japan to India is supported by ERNET which is transited through the Italy NOC of GEANT2. The bandwidth is 45Mbps. However, we have never been successful even getting 30Mbps transmission over this 45Mbps link. We are still investigating the problem.
3. Network news

Fig-2 shows the AQUA partners inside Japan.

In Japan we use several kinds of networks. These are mainly JGN2, SINET3 and another circuits such those of local governments or NTT West’s commercial link. The Medical School of Sapporo, Asahikawa, Iwate, Fujimoto Hayasuzu Hospital use JGN2. The National Cancer Center, Tokyo Medical and Dental University, Fujita Health University and Nagasaki University use SINET3. The Kyoto Second Red Cross Hospital and Tomishiro Central Hospital use NTT West’s commercial links, the so called “Flets Premium”. All of these networks can support 30Mbps traffic from DVTS.
4. New Instruments and Technical Tips

We announced the standard configuration of the DVTS setup at the Asia telemedicine symposium held 7 December 2008 at the Kyushu University Hospital. This configuration includes our technical know-how gained from over 100 conferencing event and making 300 connecting points in these past activities. The equipment here constitutes the minimal requirement for making a comfortable discussion by teleconferencing, and is conducive to reducing the testing time and problems arising among each participating station. We hope that this standard configuration will be recognized by those stations involved with us as well as newcomers. We will continue towards greater standardization in the future.

4.1 Standard configuration diagram  (schema 4-1-1)

4.2 Features
- Flexible adaptation with other equipment already existing at the conference venue.
- Support for live surgery demonstrations with using a video switcher.
4. New instruments and technical tips

- Use 2 DVTS PCs to reduce risk factors.
  + Balanced traffic between the DVTS PC and the L3 switch
  + Minimizes the effects any PC problems

4.3 Items detail

1. Analog Digital Video converter (ADVC)

<table>
<thead>
<tr>
<th>Canopus Twinpact 100</th>
<th>Convert S-video (Composite) signal to DV. Twinpact 100 accepts RGB signal. A DV (HDV) recorder like the Sony HVR-25J includes an ADVC function, and can be used as an AVDC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sony HVR-25J</td>
<td></td>
</tr>
</tbody>
</table>

2. Microphone

| Handheld Unidirectional Dynamic Vocal Microphone with power switch is convenience. There are many kinds of such products. Check compatibility with your audio amplifier ahead of testing. |

3. Audio amplifier (Audio Mixer)

| Used to adjust audio input and output levels. An AUX port on the audio amplifier is useful for independent adjustments between DVTS sound input and output. |

4. Video camcorder

| Video Camera, with no DV port, is acceptable for use. Analog digital Video converter (ADVC). DVTS multipoint connection unit (Quatre) supports only a NTSC signal. |


4. New instruments and technical tips

5. DVTS PC (2 units)

<table>
<thead>
<tr>
<th>Recommended spec</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS: Microsoft Windows XP</td>
</tr>
<tr>
<td>CPU: Pen-IV, III, M, Celeron over 2GHz</td>
</tr>
<tr>
<td>RAM: over 256-512MB RAM</td>
</tr>
<tr>
<td>Graphic card: Require to work DirectX</td>
</tr>
<tr>
<td>Network card: 100Mbps or over</td>
</tr>
<tr>
<td>IEEE1394 port: OHCI compatible</td>
</tr>
<tr>
<td>We recommend using 2PCs for each stream (Send &amp; Receive)</td>
</tr>
</tbody>
</table>

6. Display

| Very important factor for the impression of the video image. |
| Flat panel monitors (LCD or PDP) are recommended. |
| Require enough brightness for a projector. |
| (At least 3000 ANSI for a small room, over 5000 for larger rooms) |

7. VPN router

| Required in a live demonstration event such as surgery and endoscopy to secure patient privacy. |
| We use Allied Telesis AR550S, or AT-AR750S. |
| AT-AR750S (World wide model) |
4. New instruments and technical tips

Staff allocation

Need two staff for a casual event, 3 for a regular conference event.

1. Sound Check and adjustment
   - broken voice
   - too strong or too quiet sound level
   - microphone position

2. Camera handling
   - Video camera and Digital camera (taking pictures)

3. Total management
   - Contact with other stations and support presenter etc.
4. New instruments and technical tips

Event Preparation details
Equipment preparation
1. Analog digital video converter
2. Microphone/s
3. Audio amplifier
4. Video camcorder
5. DVTS PC (2 units)

Check list for event preparation  (*Depends on the size and the importance of the event).  

<table>
<thead>
<tr>
<th>Deadline*</th>
<th>Medical staff</th>
<th>Network engineer</th>
<th>Local setup engineer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over 3 months before</td>
<td>• Design event (draft)</td>
<td>• Check Network environment at new stations</td>
<td>• Check local equipments at new stations</td>
</tr>
</tbody>
</table>
| 2 months before | • Decide connecting stations  
  • Confirm all medical participants  
  • Announce the event to all stations. | • Check Network environment and adjustment | • Confirm engineer’s information (name, e-mail, mobile, MSN messenger)  
  • Make mailing list  
  • Arrange VPN routers (if needed) |
| 1 month before | • Finalize program  
  • Abstract deadline | | • Confirm each station’s equipment.  
  • Plan test schedule. (Check time difference)  
  • Collect IP address information from each station. |
| 2 weeks before | | • Install VPN. (If needed)  
  • Setup Quatre | • Test with new stations  
  • Check network conditions and equipment  
  • Troubleshooting. |
| 1 week before | • Rehearsal | • Troubleshooting | • Tests with all stations  
  • Check network conditions and equipment,  
  • Troubleshooting. |
| 3 days before | • Troubleshooting | | • Test (Back-up dates) |
| Previous day | • Troubleshooting | | • Final test |
| Event day | • Troubleshooting | | • Final check, real event |
Results of questionnaire about supporting team and instruments for telemedicine in each institution

<table>
<thead>
<tr>
<th>Support structure</th>
<th>Homepage</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Université Victor Segalen Bordeaux 2 (FR)</td>
<td><a href="http://www.decam.u-bordeaux2.fr">http://www.decam.u-bordeaux2.fr</a></td>
<td>Département Communication, Audiovisuel, Multimédia</td>
</tr>
<tr>
<td>Chulalongkorn Univ. (TH)</td>
<td><a href="http://www.md.chula.ac.th">http://www.md.chula.ac.th</a></td>
<td>Faculty of Medicine, Computer Unit</td>
</tr>
<tr>
<td>Chinese University of Hong Kong (CN)</td>
<td><a href="http://www.med.cuhk.edu.hk">http://www.med.cuhk.edu.hk</a></td>
<td>Information Technology</td>
</tr>
<tr>
<td>Flinders Univ. (AU)</td>
<td><a href="http://som.flinders.edu.au/staff/groups/lab_man/Default.htm">http://som.flinders.edu.au/staff/groups/lab_man/Default.htm</a></td>
<td>School of Medicine, Support Services</td>
</tr>
<tr>
<td>Fukuoka Univ. (JP)</td>
<td><a href="http://www.ipc.fukuoka-u.ac.jp/">http://www.ipc.fukuoka-u.ac.jp/</a></td>
<td>Technology Center, Center for Medical Information</td>
</tr>
<tr>
<td>Gyeongsang National Univ. (KR)</td>
<td><a href="http://www.gelc.or.kr">http://www.gelc.or.kr</a></td>
<td>e-Learning Center</td>
</tr>
<tr>
<td>Universitätsklinikum Hamburg-Eppendorf, Hamburg (DE)</td>
<td>2 Doctor's work it for by their selves</td>
<td></td>
</tr>
<tr>
<td>Kyushu Univ. Hosp (JP)</td>
<td>http/aqua.med.kyushu-u.ac.jp</td>
<td>AQUA + Kyushu Electronic company</td>
</tr>
<tr>
<td>Mahidol Univ Srinagaj Hosp. (TH)</td>
<td><a href="http://www.sri.nahidol.ac.th/metc">http://www.sri.nahidol.ac.th/metc</a></td>
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<td>Red Cross International Nursing College, Fukuoka (JP)</td>
<td>Support from commercial company</td>
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<tr>
<td>MYREN (Malaysia Research &amp; Education Network)</td>
<td><a href="http://www.iperintis.com">http://www.iperintis.com</a></td>
<td>iPerintis (IT Consultants)</td>
</tr>
<tr>
<td>Nagasaki Univ (JP)</td>
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<td>Information Media Center</td>
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<td>National Taiwan Univ (TW)</td>
<td><a href="http://mi.mc.ntu.edu.tw">http://mi.mc.ntu.edu.tw</a></td>
<td>Division of Medical Informatics</td>
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<td>National Univ of Singapore (SG)</td>
<td><a href="http://www.cit.nus.edu.sg">http://www.cit.nus.edu.sg</a></td>
<td>Centre for Instructional Technology</td>
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<tr>
<td>Seoul National Univ Bundang Hosp (KR)</td>
<td>Medical Media Studio</td>
<td></td>
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<tr>
<td>Stanford Univ (US)</td>
<td><a href="http://summit.stanford.edu">http://summit.stanford.edu</a></td>
<td>SUMMIT (Stanford Univ Medical and Multimedia Information Technology)</td>
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<tr>
<td>Taipei VGH (TW)</td>
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<td>Information Services Center</td>
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<td>Tata Memorial Hosp (IN)</td>
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<td>Tsinghua University (CN)</td>
<td><a href="http://www.nrc.tsinghua.edu.cn/?_english/index_english.htm">http://www.nrc.tsinghua.edu.cn/?_english/index_english.htm</a></td>
<td>Network Research Center</td>
</tr>
<tr>
<td>Univ of Indonesia (ID)</td>
<td><a href="http://www.fk.ui.ac.id/">http://www.fk.ui.ac.id/</a></td>
<td>IT Developing &amp; Services</td>
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<tr>
<td>Yonsei Univ (KR)</td>
<td><a href="http://sev.iseverance.com">http://sev.iseverance.com</a></td>
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<td>Taichung VGH (TW)</td>
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<td>Support structure 2</td>
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<td>GNU</td>
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## Equipments 1

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Configuration</th>
<th>Video</th>
<th>DVTS</th>
<th>Display</th>
<th>Mic. power SW / Wired</th>
<th>Amplifier</th>
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4. New instruments and technical tips

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## 5. Event List

*Event numbers are consecutive from our previous report.*

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<tr>
<th>Date</th>
<th>Events</th>
<th>Contents</th>
<th>Materials</th>
<th>Venue</th>
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<tr>
<td>97 2007.5.8</td>
<td>Live surgery demonstration of laparoscopic hepatectomy</td>
<td>Laparoscopic surgery</td>
<td>Live</td>
<td>KUH SNUBH Iwate medical Univ. Fujimoto Hayasuzu Hosp.</td>
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<td>98 2007.6.9</td>
<td>Endoscopy Live demonstration</td>
<td>Endoscopy</td>
<td>Live</td>
<td>KUH Kyoto 2nd Red cross Hosp.</td>
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<td>Live demonstration of colon surgery at Chinese Medical Association</td>
<td>Endoscopic surgery</td>
<td>Live</td>
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<td>100 2007.6.22</td>
<td>Live demonstration of stomach surgery at Chinese Medical Association</td>
<td>Endoscopic surgery</td>
<td>Live</td>
<td>KUH SJTU TMDU CU</td>
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<tr>
<td>101 2007.7.19</td>
<td>Memorial lectures in North annual meeting</td>
<td>Healthcare</td>
<td>Slide 3D image</td>
<td>KUH Sapporo Medical Univ.</td>
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<td>102 2007.8.29</td>
<td>24th APAN meeting Xi'an · Singha/Tsunami teleconference</td>
<td>Conference Slide</td>
<td>Xi'an venue ERNET office (Mumbai) Chulalongkorn Univ. Florida International Univ.</td>
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<tr>
<td>103 2007.8.29</td>
<td>24th APAN meeting Xi'an · Live demonstration of endoscopy</td>
<td>Endoscopy</td>
<td>Live</td>
<td>Xi'an venue KUH Kyoto 2nd Red cross Hosp. Hanyang Univ. National Taiwan Univ. Siriraj Hosp. Malaysia NOC Universitasklinikum Hamburg-Eppendorf</td>
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<td>24th APAN meeting Xi'an · Nurse teleconference</td>
<td>Conference Slide</td>
<td>Xi'an venue Red Cross International Nursing College Univ. of Indonesia Baek Mai Hospital</td>
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<td>Date</td>
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<td>109 2007.10.23</td>
<td>Live surgery · hepatectomy</td>
<td>Surgery</td>
<td>Live</td>
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<td>110 2007.10.26</td>
<td>The 1st Early Gastric Cancer Conference (EGCC)</td>
<td>Endoscopy</td>
<td>Slide Video</td>
<td>KUH Siriraj hosp.</td>
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<td>111 2007.11.15</td>
<td>The 6th Pancreatobiliary Clinico-pathological Teleconference</td>
<td>Hepatobiliary Pancreas</td>
<td>Slide Video</td>
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<td>Lecture meeting between Oita University Hospital and KUH</td>
<td>Clinical regional alliances</td>
<td>Slide</td>
<td>Oita Univ. Hosp. KUH</td>
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<td>116 2007.12.12</td>
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<td>Slide Demo</td>
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<td>121 2008.3.19</td>
<td>Master Workshop on Novel Endoscopic Technology and ESD</td>
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### Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tr>
<td>APAN</td>
<td>Asia-Pacific Academic Network</td>
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<tr>
<td>CU</td>
<td>Chulalongkorn University</td>
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<td>CUHK</td>
<td>Chinese University of Hong Kong</td>
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<td>ERNET</td>
<td>Education and Research Network in India</td>
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<td>ESD</td>
<td>Endoscopic Submucosal Dissection</td>
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<td>FUH</td>
<td>Fukuoka University Hospital</td>
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<td>GARR</td>
<td>The Italian Academic &amp; Research Network</td>
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<td>Gyeongsang National University</td>
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<td>IMU</td>
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<td>KUH</td>
<td>Kyushu University Hospital</td>
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<td>NOC</td>
<td>Network Operation Center</td>
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<td>SNUBH</td>
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<td>University of the Philippines Manila</td>
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6. Event Report

1) Programs

#97 Live surgery demonstration of laparoscopic hepatectomy 2007.5.8
Date: May 8th (Tue) 13:30-16:30
Scheduled surgery: Laparoscopic left lobectomy for intrahepatic duct stone
Connecting stations:

1. Kyushu University Hospital, Fukuoka, Japan
   Moderator: Shimizu S
   Discussant: Nakamura M
   Engineers: Okamura, Torata, Kuwahara, Irie (Allied-Telesis)

2. Seoul National Bundang Hospital, Bundang, Korea
   Operator: Han HS
   Engineers: Lee JH

3. Iwate Medical University, Morioka, Japan
   Discussants: Wakabayashi G, Sasaki A
   Engineers: Shimomura

4. Fujimoto-Hayasuzu Hospital, Miyazaki, Japan
   Discussants: Sakurai T, Otani K
   Engineers: Matsumoto, Nishimu-Denshi

Program:
13:15- Operation starts
13:30-13:35 Opening remarks: Shimizu/Kyushu, Han/Bundang
13:35-13:45 Greetings from each station: Wakabayashi/Iwate, Sakurai/Miyazaki
13:45-13:50 Case presentation: Bundang Hosp
13:50-16:20 Operation and discussion
16:20-16:30 Closing remarks: Wakabayashi/Iwate

Remarks:
1. Live surgery comes from SNU Bundang Hospital
2. Network configuration and local settings.
   - IP sec protocol is used to protect patient privacy, using VPN router AR550s (Allied Telesis). Live surgical image should be protected.
3. Others
   - This is an informal teleconference to learn laparoscopic surgery. Please feel free to ask any questions during event.
Event Report
1) Programs

Live demonstration of colon surgery at Chinese Medical Association 2007.6.21

“minimally invasive surgery and colorectal cancer”

Date: June 21st (Thr)
Time: 9:00-11:30 China time (Japan 10:00-12:30)

Scheduled operation:
Laparoscopic sigmoidectomy (changed from LAR due to patient conditions)

Connecting stations:
1. Shanhai Jiaotong U First People's Hospital, Shaghai, China
   Chairpersons: Qiu Z, Huang K
2. Iwate Medical U, Morioka, Japan
   Chairpersons: Okuda J, Sasaki A
   Operator: Otsuka K
3. Kyushu U, Fukuoka, Japan
   Moderator: Shimizu S
   Discussants: Ueki T, Tanabe Y, Tao J
4. Taipei Veteran General Hospital, Taipei, Taiwan
   Discussant: Yang SH

Program:

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<tr>
<td>9:00-9:10</td>
<td>(JP, 10:00-10:10) Opening remarks: Qiu Z/Shanghai</td>
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<td>9:20-9:30</td>
<td>(JP, 10:20-10:30) Case presentation: Iwate Medical U</td>
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<td>9:30-11:20</td>
<td>(JP, 10:30-12:20) Operation and discussion</td>
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<td>*11:30-12:00</td>
<td>(JP, 12:30-13:00) Maximum extension of the live demonstration</td>
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*Note: Time in parentheses indicates Japan time.*
#100 Live demonstration of stomach surgery at Chinese Medical Association 2007.6.22

Live demonstration of laparoscopic gastric surgery at Chinese Medical Association

Date: June 22nd (Fri)
Time: 12:30-15:30 China time (Thailand: 11:30-14:30, Japan 13:30-16:30)
*15:30-16:00 (after surgery): Tele-lecture from Tokyo Med Dent U (Dr Kojima)

Scheduled operation:
Laparoscopy-assisted distal gastrectomy

Connecting stations:
1. Shanghai Jiaotong U First People's Hospital, Shanghai, China
   Chairpersons: Qiu Z, Huang K
2. Kyushu U, Fukuoka, Japan
   Moderator: Shimizu S
   Operator: Nagai E
3. Tokyo Medical Dental U, Tokyo, Japan
   Discussant: Kojima K
4. Chulalongkorn U, Bangkok, Thailand
   Discussant: Patpong N

Program:

11:30-   (TH 10:30-   JP 12:30-   )
   Network connection is ready and operation starts?
   Opening remarks: Qiu Z/Shanghai
   Greetings and staff introduction: Shanghai, Kyushu, Tokyo, Bangkok
12:50-13:00 (TH 11:50-12:00    JP 13:50-14:00)
   Case presentation: Kyushu U
13:00-15:20 (TH 12:00-14:20    JP 14:00-16:20)
   Operation and discussion
   Closing remarks: Patpong N
15:30-16:00 (TH 14:30-15:00    JP 16:30-17:00)
   Tele-lecture by Dr Kojima K
   Laparoscopic function preserving gastrectomy for early gastric cancer
# Symposium on Advance in Minimally Invasive Surgery for Digestive System Malignancies

## Time Table

**Shanghai 2007**

### June 20 (Wednesday):
8:00am~ Register, accommodation

### June 21st (Thursday):

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<tr>
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<th>Event</th>
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<td>8:00am-8:15am</td>
<td>Opening Remark</td>
<td>Hospital Official</td>
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<td>8:15am-9:00am</td>
<td>Advance in laparoscopic surgery for gastrointestinal malignancies</td>
<td>Prof. Qiu Zheng-jun</td>
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<td>9:00am-11:30am</td>
<td>Multi-station Teleconference (live surgery)</td>
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<td>Laparoscopic assistant colorectomy (Operator: Otsuka)</td>
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<td>Iwate Medical U, Morioka, Japan</td>
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<td>Shanghai Jiaotong Univ. Shanghai</td>
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<td>Kyushu U, Fukuoka, Japan</td>
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<td>Taipai Veteran General Hospital, Taiwan</td>
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<tr>
<td>13:30pm-14:15pm</td>
<td>Current status for laparoscopic gastroectomy for gastric cancer</td>
<td>Prof. Mu Yi-ping</td>
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<tr>
<td>14:15pm-15:00pm</td>
<td>Anatomic technique for laparoscopic Proctectomy for rectal cancer</td>
<td>Prof. Hu San-yuan</td>
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<tr>
<td>15:15pm-16:00pm</td>
<td>Current status for laparoscopic surgery for benign gastric tumors</td>
<td>Prof. Qiu Min</td>
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<td>16:00pm-16:45pm</td>
<td>Endoscopic palliative therapy for periampullary malignancy: Indications, Methods and Results</td>
<td>Prof. Zheng Ping</td>
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### June 22nd (Friday):

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<td>Current status for laparoscopic colorectomy for colorectal cancer</td>
<td>Prof. Zheng Min-hua</td>
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<td>9:00am-11:00am</td>
<td>Live Surgery: Lap. Colorectomy for colorectal cancer</td>
<td>Operator Prof. Zheng Min-hua</td>
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<tr>
<td>Lunch Break</td>
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<tr>
<td>12:30am-15:30pm</td>
<td>Multi-station teleconference</td>
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<td>Live surgery: LADG</td>
<td>Kyushu U, Fukuoka, Japan (Operator: Dr. Nagai)</td>
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### Event Report

#### Programs

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<th>Speaker</th>
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<tr>
<td>15:30pm-16:00pm</td>
<td>Laparoscopic function preserving gastrectomy for early gastric cancer</td>
<td>Dr. Kojima</td>
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<tr>
<td>16:00pm-17:00pm</td>
<td>Laparoscopic surgery for pancreaticobiliary tumors</td>
<td>Dr. Cao Jun</td>
</tr>
<tr>
<td>17:30pm</td>
<td>Dinner Party</td>
<td></td>
</tr>
</tbody>
</table>

**June 23rd (Saturday):**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00am-9:00am</td>
<td>Fundamental Research Progress in Laparoscopic Surgery</td>
<td>Dr. Huang Kejian</td>
</tr>
<tr>
<td>9:00am-11:00am</td>
<td>Live surgery: laparoscopic colectomy</td>
<td>Operator: Prof. Qiu Zheng-jun</td>
</tr>
<tr>
<td></td>
<td>Lunch</td>
<td></td>
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<tr>
<td></td>
<td>Check out</td>
<td></td>
</tr>
</tbody>
</table>
#102 24th APAN meeting Xi'an - Singha/Tsunami teleconference 2007.8.29

Date: Aug 29th (Wed) 11:00-12:30 China time (New Dehli 8:30-10:00, Bangkok 10:00-11:30, Florida 22:00-23:30)

Connecting stations:
1. Sheraton Xi'an Hotel, Xi'an venue, China
   Chairperson: Hina
2. ERNET office, Mumbai, India
   “Telemedicine and Primary Care Needs in Developing Countries”
   Dr. A. Nandakumar, ERNET, Mumbai
3. Chulalongkorn U, Bangkok, Thailand
   “Art Therapy in Developing Countries and in Post Disaster Zones”
   Dr Gaelynn Wolf Bordonaro jointly with Burapha University
4. Florida International U, Florida, USA
   “Primary Urologic and Gynecologic Care”
   Dr. Mike Simon, Laporoscopic nephrectomy, Memorial Miramar Hospital
   Dr. Giri Talluri, discussion, South Miami Hospital
   Dr. Ana Tamayo, Hysteroscopy and Uterine Ablation, Memorial Miramar Hospital

1. Teleconference between 4 stations
2. Network configuration will be illustrated and announced later by Prof Okamura.
   • We use one line of DVTS, whose bandwidth is about 30Mbps.
   • Images from 4 stations are controlled by Quatro, located at Kyushu U CC.
   • NTSC camera or PAL/NTSC converter will be necessary at Xi'an, Mumbai, and Bangkok.
   • IP sec protocol is NOT used.
3. Schedule
   • Check network situation and DVTS at Xian, Mumbai and Florida.
   • The first network test should be planned probably in July.
# Event Report

1) Programs

**Live demonstration of endoscopy at APAN-Xian**

**Date**: Aug 29th (Wed) 14:00-17:30 China time (Japan, Korea 15:00-18:30, Thailand 13:00-16:30, Germany 8:00-11:30)

**Connecting stations:**

1. Sheraton Xi'an Hotel, Xi'an venue, China  
   Chairperson: Shimizu
2. Kyushu U, Fukuoka, Japan  
   Moderator: Yada  
   Operator: Yoshinaga
3. Kyoto 2nd Red-Cross Hospital, Kyoto, Japan  
   Moderator: Tanaka  
   Operator: Yasuda
4. Hanyang U, Seoul, Korea  
   Moderator: Hahm JS, Choi HS
5. National Taiwan U, Taipei, Taiwan  
   Moderator: Wang HP
6. Mahidol U Siriraj Hospital, Bangkok, Thailand  
   Moderator: Somchai, Thawatchai
7. Malaysia NOC, Kuala Lumpur, Malaysia  
   Moderator: Salem O
8. Universitätsklinikum Hamburg-Eppendorf, Hamburg, Germany  
   Moderator: Dr. Thonke, Dr. Seitz and Dr. Groth

1. Endoscopy demonstration comes from both Kyushu U and Kyoto Red Cross Hospital
2. Network configuration will be illustrated and announced later by Prof Okamura.
   - We use one line of DVTS, whose bandwidth is about 30Mbps.
   - Images from 8 stations are controlled by new-Quatro, located at Kyushu U CC.
   - NTSC camera or PAL/NTSC converter will be necessary at Xi’an, Mahidol, Kuala Lumpur and Hamburg.
   - IP sec protocol is used to protect patient privacy, using VPN router AR550s (Allied Telesis). We need to discuss how to prepare this router at Xi’an, Kyoto, Hanyang, and Germany. Check again with NTU, Mahidol, and Malaysia.
   - Prepare flat monitors at each station for better quality
3. Schedule
   - Network situation will be discussed early June, and optic fiber has to be connected to Hamburg.
   - Prepare instruments necessary for DVTS set-up at Xi’an, Kyoto, and Hamburg. Check again with Hanyang.
#104 24th APAN meeting Xi'an - Nurse teleconference 2007.8.30

Date: Aug 30th (Wed) 11:00-12:30 China, Vietnam, Indonesia time (Japan 12:00-13:30)

Connecting stations:
1. Sheraton Xi'an Hotel, Xi'an venue, China
   Chairperson: Sakurai S
2. Red Cross International Nursing College, Fukuoka, Japan
   Moderator: Kita E, Ikeda M
3. Back Mai Hospital, Hanoi, Vietnam
   Moderator: Loi DD, Thai TB (IOIT)
4. U of Indonesia, Jakarta, Indonesia
   Moderator: Ali S

1. Teleconference between 4 stations
2. Network configuration will be illustrated and announced later by Prof Okamura.
   • We use one line of DVTS, whose bandwidth is about 30Mbps.
   • Images from 4 stations are controlled by Quatro, located at Kyushu U CC.
   • NTSC camera or PAL/NTSC converter will be necessary at Xi'an, Hanoi, and Jakarta.
   • IP sec protocol is NOT used.
3. Schedule
   • Check network situation and DVTS at Xian, Jakarta, and Hanoi.
Live surgery demonstration of laparoscopic colo-rectal at APAN-Xian

Date: Aug 30th (Thr) 14:00-17:30 China time (Japan, Korea 15:00-18:30, Thailand 13:00-16:30, Sydney 15:00-18:30, France 8:00-11:30)

Connecting stations:
1. Sheraton Xi’an Hotel, Xi’an venue, China
   Chairperson: Han HS
2. Korea U Hospital, Seoul, Korea
   Operator: Kim SH
3. Japan: Tokyo Medical Dental University
   Moderator: Kojima K, Sugihara K, Enomoto
4. National University of Singapore, Singapore
   Moderator: Lomanto D
5. University Philippine Manila
   Moderator: Hilvano SC
6. Tata Memorial Hospital, Mumbai, India
   Moderator: Shukla P
7. Concord Repatriation General Hospital, Sydney, Australia
   Moderator: Bokey EL, Keshava A
8. University of Bordeaux2, Bordeaux, France
   Moderator: Dulucq JL (ILS)

1. Live surgery (laparoscopic colo-rectal surgery) comes from Korea University Hospital
2. Network configuration will be illustrated and announced later by Prof Okamura.
   - IP sec protocol is used to protect patient privacy, using VPN router AR550s (Allied Telesis). We need to discuss how to prepare this router at Xi’an, Korea U, UP Manila, Tata MH, Concord, and University of Bordeaux2. Check again with NUS.
#108 Yonsei Gastric Cancer Symposium 2007 2007.10.12

Yonsei Gastric Cancer Symposium 2007

Date: Oct 12th (Fri)
Time: 13:00-15:00
Connecting stations:

1. Yonsei University Medical Center
   Chairpersons: IH Kim (Kye Myung Univ.)
   BS Kim (Ulsan Univ)
   Discussants: SH Choi (Yonsei Univ)
   HK Yang (Seoul National Univ.)
   W Kim (Catholic Univ.)
   SW Han (A-jou Univ.)

2. Kyushu University Hospital, Fukuoka, Japan
   Moderator: Piya T
   Discussants: Konishi
   Anekawa
   Nagai E
   Toma H
   Chandika AHL

Scheduled surgery:
1) Open distal gastrectomy (Prof. SH Noh)
2) Robotic (Da Vinci) assisted distal gastrectomy (Prof. WJ Hyung)

Remarks:
1. Live surgery comes from Yonsei University Medical Center
2. The Yonsei venue is a big auditorium with attendants over 100 leading gastric surgeons from all over Korea.
3. Symposium is held all day in Yonsei, but Kyushu Univ joins it only for live surgery in early afternoon.
4. The live surgery session will be totally moderated by Korean side.
Yonsei Gastric Cancer Symposium 2007

The Updated Treatment of Gastric Cancer

2007. 10. 12. (Fri)  Sinchon severance 6th floor, Eun Myung auditorium

~ 9:00  Registrations

9:00 ~ 9:50  Minimally Invasive Treatment

Chairman: YC Lee(Yonsei Univ.), S Kim(SKK Univ.)

EMR for Gastric Mucosal Cancer & Advantage and Limitation of ESD (Endoscopic Submucosal Dissection) Method  
JJ Park (Korea Univ.)

Laparoscopic Sentinel Node Navigation Surgery –Feasibility Study–  
HH Kim(Seoul National Univ.)

Function Preserving Gastrectomy  
GS Cho(SCH Univ.)

9:50 ~ 10:10  Opening Remark & Coffee Break

JI Lee (Chairman of Korea gastric cancer association)

10:10 ~ 10:50  Special Lecture

Chairman: HK Yang (Seoul National Univ.)

Current Treatment of Gastric Cancer in China  
Ji Jia Fu (China)

10:50 ~ 12:00  Chemotherapy for Gastric Cancer

Chairman: YJ Bang(Seoul National Univ.), HY Lim(Sung Kyung Kwan Univ.)

Novel Oral Fluoropyrimidine : Capecitabine and S-1  
YK Kang (Ulsan Univ.)

New Trend of Adjuvant Chemotherapy  
KH Lee(Yung Nam Univ.)

Tailored—treatment in Gastric Cancer  
SY Rha(Yonsei Univ.)

Management of Chemo—related Complication  
SY Kim (Kyung Hee Univ.)
12:00 ~ 1:00     Lunch

13:00 ~ 15:00     Live Surgery
Chairman: IH Kim (Kye Myung Univ.), BS Kim (Ulsan Univ)
Operator: SH Noh (Yonsei Univ.) / WJ Hyung (Yonsei Univ.)
Discussant: SH Choi (Yonsei Univ), HK Yang (Seoul National Univ.), W Kim (Catholic Univ.), SW Han (A-jou Univ.)

Live Surgery for Gastric Cancer: Open Method vs Robotic (Da Vinci) assisted Gastrectomy

15:00 ~ 15:20    Coffee Break

15:20 ~ 15:50    How do I It?
Chairman: SJ Kwon (Han-yang Univ.), JH Park (Catholic Univ.)

Practice of LN Dissection SH Choi (Yonsei Univ.)
Detailed Skills of Lymphadenectomy in LAG for Gastric Cancer MC Kim (Dong-A Univ.)

15:50 ~ 16:30    Special Lecture
Chairman: SS Sohn (Kye Myung Univ.)

What’s New in Gastric Cancer Surgery Yuko Kitagawa (Japan)

16:30 ~ 17:20    Miscellaneous Issues
Chairman: DH Kim (Pusan Univ.), SM Park (Catholic Univ.)

Surgical Practice after Neoadjuvant Chemotherapy CH Ryu (Sung Kyun Kwan Univ.)
Operation for Remnant Gastrectomy YK Park (Chonnam Univ.)
The Significance of Follow-Up JM Bae (National Cancer Center)

17:20    Closing Remark SH Noh (Yonsei Univ.)
Live hepatectomy 2 from Bundang to Kyushu

Date: Oct 23th (Tue)
Time: 12:00 (noon) - 16:00
Scheduled surgery: Laparoscopic partial hepatectomy
Connecting stations:
1. SNU Budang Hospital, Korea
   Operator: Han HS
2. Kyushu University Hospital, Japan
   Moderator: Shimizu S
   Discussants: Nakamura M
               Titipong (Thailand)
               Chandika AHL (Sri Lanka)
               Aibec (Kazakhstan)
               Song (Korea)
   Observers: Eto (TeamNET)
             Suzuki (Team NET)

Remarks:
1. Pier-to-pier connection between Bundang Hospital and Kyushu U Hospital
2. Need IPsec preparation
3. Venue in Kyushu U Hospital is Image Managing Room in Dept of Endoscopy.
#110 The 1st Early Gastric Cancer Conference (EGCC)  2007.10.26

The First Early Gastric Cancer Conference (EGCC)

Date: Oct 26th (Fri) 14:00-16:00 Thailand time  (Japan, 16:00-18:00)

Connecting stations:
  Chair person Shimizu
  1. Mahidol U Siriraj Hospital, Bangkok, Thailand
     Moderator: Somchai, Thawatchai
  2. Kyushu U, Fukuoka, Japan
     Moderator: Yada, Yoshinaga

Opening remarks  14:00-14:10
  Dr. Shimizu

1. Lecture  14:10-14:30
   1) Basic technique for detecting early gastric cancer  14:10-14:25
      Speaker: Dr. Yada
   2) "Multiple superficial gastric epithelial neoplasms in endoscopic submucosal dissection era"  14:25-14:30
      Speaker: Dr. Itaba

2. Case conference  14:30-15:15
  Speaker Dr. Yoshinaga
  • Case1  14:30-15:00
    Video
    Question and Answer
  • Case2  15:15-15:45
    Video
    Question and Answer
  • Discussion  15:45-15:55

Closing remarks  15:55-16:00
  Dr. Somchai
The 1st teleconference on thoracic surgery

Date: Nov 27th (Tue) 16:00-17:00 Japan time (Singapore 15:00-16:00)

Connecting stations:
1. Kyushu University, Japan
   Moderator: Shimizu S, Aibek R
2. National University of Singapore
   Moderator: Lomanto D, Tan J
3. Fukuoka University, Japan
   Moderator: Iwasaki A, Shirakusa

1. The first teleconference in the field of thoracic surgery. Scheduled duration is just one hour.
2. Main purposes of this teleconference are as follows.
   1) Brief introduction of each institution, staffs, and surgical results of thoracic surgery. Please show any videos or presentations depending on availability.
   2) First network connection to Fukuoka Univ, which is a new member of this project.
   3) Network check-up at NUS, which seemed to have some problem at previous APAN-Xian.
3. Network configuration will be illustrated and announced later by Prof Okamura.
   - We use one line of DVTS, whose bandwidth is about 30Mbps.
   - We will NOT use IPsec.
   - Images from 3 stations are controlled by Quatre, located at Kyushu U CC.
   - NTSC camera or PAL/NTSC converter will be necessary at NUS.
   - Prepare flat monitors at each station for better quality, if available.

3. Schedule
   - Network test may be performed beforehand. Test schedule will be announced by Torata in Kyushu Univ.
#114 Asia Telemedicine Symposium 2007.12.7

## 6. Event Report

### 1) Programs

#### Dec 7 (Fri) Main venue: Centennial Hall (Middle Hall 2)

<table>
<thead>
<tr>
<th>Time</th>
<th>Program</th>
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<tbody>
<tr>
<td>9:30-10:00</td>
<td>Registration</td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>Opening ceremony&lt;br&gt;Opening remarks: Prof Tanaka M (Kyushu University Hospital, Dept of Endoscopy)&lt;br&gt;Host &amp; Guest speech&lt;br&gt;Yanagihara M (Kyushu University, Deputy-President)&lt;br&gt;Suita S (Kyushu University Hospital, Director)&lt;br&gt;Iwase K (Ministry of Education, Culture, Sports, Science and Technology)</td>
</tr>
<tr>
<td>10:40-11:20</td>
<td>Keynote speech (1) &lt;Japanese &amp; English simultaneous translation&gt;&lt;br&gt;Asia Telemedicine Activity in Kyushu University&lt;br&gt;Shimizu S (Kyushu University Hospital)</td>
</tr>
</tbody>
</table>
| 11:20-12:00 | Keynote speech (2) <Japanese & English simultaneous translation><br>What is Asia-Pacific Advanced Network (APAN)?
Kitamura Y (National Institute of Information and Communications Technology) |
| 12:00-13:30 | Lunch                                                                                     |
| 13:30-15:30 | International Tele-symposium <Japanese & English simultaneous translation><br>System for telemedicine in major university hospitals in Asia: Toward the establishment of Asia Telemedicine Center in Kyushu University<br>Chairpersons: Nakashima N, Han HS |
| 13:40-14:00 | Seoul National University Bundang Hospital<br>JungHun Lee (Remote) |
| 14:00-14:20 | National University of Singapore<br>Sew Hoo Lim (Remote) |
| 14:20-14:40 | Flinders University in Australia<br>Colin Carati (Remote) |
| 14:40-15:00 | Chinese University of Hong Kong<br>Patrick Lam (Local) |
| 15:00-15:20 | Current situation of Japan and Kyushu University<br>Naoki Nakashima (Local) Discussion |
| 15:30-16:00 | Coffee break                                                                           |
| 16:00-18:00 | Medical workshop <Japanese & English simultaneous translation><br>Expansion of Asia Telemedicine Activity: Promising medical contents<br>Chairpersons: Okamura K, Hong CS<br>Discussion about new JGN2plus network<br>Preparation for the next APAN Meeting<br>Preparation for the next Core Seminar |
| 16:00-16:20 | Endoscopic surgery<br>Tokyo Medical Dental University<br>Kojima K |
| 16:20-16:45 | Gastrointestinal endoscopy<br>Kyoto 2nd Red Cross Hospital<br>Tanaka K |
| 16:50-17:10 | Robot<br>Kyushu University Advanced Medical Initiatives<br>Hashizume M |
| 17:15-17:35 | Transplantation<br>Kyushu University Kidney Care Unit<br>Sugitani A |
| 17:40-18:00 | International nursing<br>Kyushu International College of Nursing<br>Kita E |
| 18:00-18:10 | Guest speech<br>Maesawa A (Japan Society for the Promotion of Science) |
| 18:30-20:30 | Reception (Middle Hall 1)                                                                |

#### Venue 2: Conference Room 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Program</th>
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</thead>
<tbody>
<tr>
<td>13:30-15:30</td>
<td>QGPOP Meeting&lt;br&gt;Chairperson: Okamura K&lt;br&gt;+ Discussion about new JGN2plus network&lt;br&gt;+ Preparation for the next APAN Meeting&lt;br&gt;+ Preparation for the next Core Seminar</td>
</tr>
<tr>
<td>16:00-18:00</td>
<td>HJUK (High-speed Internet between Korea and Japan)&lt;br&gt;Chairpersons: Okamura K, Hong CS&lt;br&gt;+ Report of the events between Japan and Korea&lt;br&gt;Remote lecture among Kyushu Univ, KHU and ChNU&lt;br&gt;Plan about future collaborations&lt;br&gt;Remote access using Wireless Network&lt;br&gt;CN and VM</td>
</tr>
</tbody>
</table>
6. Event Report

1) Programs

#116 IRCCS Conference "Health Science Community: la medicina nelle arterie della rete GARR" 2007.12.12

The Conference aim is to put in touch the medical science community with the wide multidisciplinary scientific community connected to the GARR network, breeding new collaboration initiatives and new applications in the medical, biological and biomedical area, thanks to the most innovative network technology.

The Conference will also showcase how a network infrastructure can promote cooperation, both inside its own community and within other scientific communities relying on the other international research networks.

The primary goal of the GARR Network is in fact to support the Italian scientific and education research activities in order to promote cooperation among its connected members and to develop innovation and knowledge.
**Programme**

**Wednesday, December 12th 2007**

09:00 - 09:30
Welcome coffee and registration

09:30 - 10:00
Conference Opening
Chair: Enzo Valente (GARR)

GARR Welcome
Enzo Valente (GARR)

Telemedicine projects promoted by Ministry of Health - Information Systems General Direction
Walter Bergamaschi (Ministry of Health)

Projects promoted by Ministry of Health - Research and Innovation Department
Giovanni Zotta (Ministry of Health)

10:00 - 11:30
GARR Network: community, plans and opportunities
Chair: Laura Leone (GARR)

Who and what is GARR and GARR-X network
Enzo Valente (GARR)

Grid Infrastructure: technology and opportunities for medicine
Mario Reale (GARR)

Identity management to manage data security
Raffaele Conti (Institute of Clinical Physiology, CNR, Pisa)

11:30 - 13:00
International experiences in Telemedicine
Chair: Claudio Alloccio (GARR)

Grid computing for medical image processing
Johan Montagnat (Centre National de la Recherche Scientifique - France)

Network Infrastructure for the English National Health Service
Malcolm Teague (Janet - United Kingdom)

Building secure networks for health research and health care in Denmark and elsewhere
Martin Bech (UNI-C - Denmark)

Advanced telemedicine project in Asia-Pacific and possible collaboration with Europe - Importance of cooperation between doctors and engineers
Shoji Shimizu (University of Kyoto - Japan)

13:00 - 14:00
Lunch break

14:00 - 15:30
National experiences in Telemedicine
Chair: Lidia Di Minno (Ministry of Health)

Teleradiology: state of art and future plans
Alfredo Stanzi (Italian Society of Medical Radiology)

Computational neuroanatomy: crossroad among neuroscience, statistics and ICT
Giovanni B. Frisoni (IKCS San Giovanni di Dio-Fatebenefratelli, Brescia)

Rete Tumori Rari
Elena Sini (National Cancer Institute, Milan)

Bibliosan System: the Italian biomedical organizations network libraries
Maurizio Curti (San Matteo Foundation, Pavia)

15:30 - 16:00
Coffee break

16:00 - 17:15
Medical collaborations within GARR members
Chair: Claudio Battista (GARR)

Medical distributed imaging analysis: MAGIC-V project
Piergiorgio Cerello (INFN, Turin)

LNS and Centre for AdroTherapy and Advanced Nuclear Applications
Giacomo Cittone (INFN, Catania)

ISN CNR telemedicine applications
Ivan Ducà (Institute of Neurological Sciences, CNR, Cosenza)

eRMETE and INTEA: the use of Italian telematic systems and their integration in the National Health Service
Remo Bedini (Institute of Clinical Physiology, CNR, Pisa)

17:15 - 17:30
Conference wrap up
Chair: Enzo Valente (GARR)
Live surgery/endoscopy demonstration at APAN-Hawaii

Date: Jan 23th (Wed) Hawaii 14:00-17:30, California 16:00-19:30
    Jan 24th (Thr) Japan, Korea 9:00-12:30, China 8:00-11:30

Scheduled procedures:
1. Robotic distal gastrectomy (Yonsei University, Korea)
2. Diagnostic gastroscopy (Kyusu University, Japan)

Connecting stations:
1. University of Hawaii, USA
   Chairperson: Shimizu S, Han HS
2. Yonsei Univeristy Medical Center, Seoul, Korea
   Operator: Hyung WJ
3. Kyushu University, Fukuoka, Japan
   Operators: Yoshinaga, Itaba
   Moderators: Yada S, Nagai E
4. Shanghai Jiaotong University, Shanghai, China
   Moderators: Qiu, Huang, Wan
5. North Shore Private Hospital, Sydney, Australia
   Moderator: Smith G
6. University of California Irvine, Irvine, USA
   Moderators: Chang K, Clayman R

Program:
13:00- (UCI 15:00- , CN 7:00- , KR/JP 8:00- )
   Surgery starts after robot set-up at Yonsei U in Korea
14:00-14:05 (UCI 16:00- , CN 8:00- , KR/JP 9:00- )
   Official opening remarks: Shimizu S
14:05-14:10 (UCI 16:05- , CN 8:05- , KR/JP 9:05- )
   Greeting from Yonsei U
   Greetings and staff introduction from all stations
14:30-14:40 (UCI 16:30- , CN 8:30- , KR/JP 9:30- )
   Case presentation: Yonsei U
   Operation and discussion
6. Event Report
1) Programs

15:30-16:00 (UCI 17:30- , CN 9:30- , KR/JP 10:30- )
   Coffee break; Operation can be seen continuously.

16:00-16:15 (UCI 18:00- , CN 10:00- , KR/JP 11:00- )
   Network explanation by Prof Okamura and Mr A Howard

   Endoscopic demonstration from Kyushu U

16:45-17:15 (UCI 18:45- , CN 10:45- , KR/JP 11:45- )
   Discussion about endoscopy (and about operation in between)

   Good-bye messages from all stations

   Closing remarks: Han HS

17:30 (UCI 19:30, CN 11:30, KR/JP 12:30)
   Adjourn
6. Event Report
   1) Programs

#118,119 25th APAN meeting Hawaii - Healthcare teleconference 1  2008.1.24

Date: Jan 24th (Thr) Hawaii 14:00-15:30, California 16:00-17:30,  
Korea and Japan 9:00-10:30

Program Organizer: Nakashima N (Kyushu U/JP) and Lee YS (Chungbuk NU/KR)

Connecting stations:
1. University of Hawaii, USA
   Chairperson: YoungSung Lee/Sakurai S
2. Stanford University, California, USA
   Moderator1: Cammy Huang/ Piya Sorcar
3. Chungbuk National University, Cheongju, Korea
   Moderator: KyeongSoo Lee
4. Kyushu University, Fukuoka, Japan
   Moderator: Nakashima N

Opening remarks: YoungSung Lee

Presentations
1. Hawaii venue
   1) Shinobu Sakurai: The new health checkup system in Japan for Metabolic Syndrome (10min)
   2) YoungSung Lee: Tele-medical activities in S. Korea (10min)
2. Stanford University
   1) Cammy Huang: XXXXX (10 min)
   2) Piya Sorcar: Interactive Teaching AIDS: Culturally Appropriate and Effective HIV/AIDS Education (10min)
3. Chungbuk National University
   1) Kyeongsso Lee: Strategy for Hypertension and DM in S.Korea (10min)
   1) JongKoo Lee: AI Experience In Republic of Korea: Status and Response (10min)
4. Kyushu University,
   1) Naoki Nakashima: A Japanese model of disease management for diabetes mellitus from primary to tertiary prevention(10min)

5. Discussion among 4 stations (20min)

Closing Remarks: Shinobu Sakurai
#121 Master Workshop on Novel Endoscopic Technology and ESD 2008.3.19

## 19 March 2008 Wednesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Chairmen/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 - 08:45</td>
<td>Opening Remarks</td>
<td></td>
</tr>
<tr>
<td>08:45 - 10:40</td>
<td>Lectures (Gastric Cancer)</td>
<td>Simon KH Wong, Naohisa Yabagi</td>
</tr>
<tr>
<td>08:45 - 09:05</td>
<td>• Gastric Cancer Screening and Global Perspective</td>
<td>Joseph JY Sung</td>
</tr>
<tr>
<td>09:05 - 09:25</td>
<td>• Paris Classification and Indication of Endotherapy</td>
<td>Enders KW Ng</td>
</tr>
<tr>
<td>09:25 - 09:50</td>
<td>• Endoscopic Screening, Diagnosis and Staging of Superficial Gastric Cancer</td>
<td>Takumi Gotoda</td>
</tr>
<tr>
<td>09:50 - 10:15</td>
<td>• From EMR to ESD (IT knife and IT2)</td>
<td>Takumi Gotoda</td>
</tr>
<tr>
<td>10:15 - 10:40</td>
<td>• ESD for Gastric Cancer (flex knife)</td>
<td>Naohisa Yabagi</td>
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<tr>
<td>10:40 - 11:00</td>
<td>Tea Break</td>
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<tr>
<td>11:00 - 12:45</td>
<td>CCTV Live Demonstration of Gastric ESD</td>
<td>Enders KW Ng, Joseph JY Sung</td>
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<td>Boardband Live Transmission from Kyushu University</td>
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<tr>
<td></td>
<td>Chairman: K Nakamura Operator: S Yoshinaga</td>
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<tr>
<td></td>
<td>• Introduction of setting for ESD of gastric neoplasm</td>
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<tr>
<td></td>
<td>• ESD technique using IT knife, flex knife and TT knife in the stomach</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intervening Session</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• ESD for Gastric Neoplasm with a combination of knifes</td>
<td>Philip WY Chiu</td>
</tr>
<tr>
<td>12:45 - 13:30</td>
<td>Lunch</td>
<td></td>
</tr>
<tr>
<td>13:30 - 16:30</td>
<td>Hands-on Practical Session for ESD in Live Tissue (MISSC)</td>
<td></td>
</tr>
</tbody>
</table>
6. Event report

2) Configuration maps

#97 Live surgery demonstration of laparoscopic hepatectomy 2007.5.8

#98 Endoscopy Live demonstration 2007.6.9
6. Event report

2) Configuration maps

#99 Live demonstration of colon surgery at Chinese Medical Association 2007.6.21

#100 Live demonstration of stomach surgery at Chinese Medical Association 2007.6.22
6. Event report

2) Configuration maps

#101 Memorial lectures in NORTH annual meeting 2007.7.19

#102 24th APAN meeting Xi’an · Singha/Tsunami teleconference 2007.8.29
#103 24th APAN meeting Xi'an - Live demonstration of endoscopy 2007.8.29

#104 24th APAN meeting Xi'an - Nurse teleconference 2007.8.30
6. Event report

2) Configuration maps

#105 24th APAN meeting Xi’an - Surgery teleconference 2007.8.30

#106 Kidney Transplantation Teleconference 2007.9.19
6. Event report

2) Configuration maps

#107 The 7th Fukuoka Endoscopic Surgery Forum 2007.9.21

#108 Yonsei Gastric Cancer Symposium 2007 2007.10.12
#109 Live surgery - hepatectomy  2007.10.23

#110 The 1st Early Gastric Cancer Conference (EGCC)  2007.10.26
6. Event report

2) Configuration maps

#111 The 6th Pancreatobiliary Clinico-pathological Teleconference 2007.11.15

#112 Lecture meeting between Oita University Hospital and KUH 2007.11.20
6. Event report

2) Configuration maps
6. Event report

2) Configuration maps

#115 The 2nd teleconference with Gyeongsang National University 2007.12.11

#116 IRCCS Conference "Health Science Community: la medicina nelle arterie della rete GARR" 2007.12.12
#117 25th APAN meeting Hawaii - Live demonstration of Robotic surgery and endoscopy 2008.1.23

#118 25th APAN meeting Hawaii - Healthcare teleconference 1 2008.1.24
6. Event report

2) Configuration maps

#119 25th APAN meeting Hawaii - Healthcare teleconference 2008.1.24

#120 The 2nd EGCC 2008.2.22
#121 Master Workshop on Novel Endoscopic Technology and ESD 2008.3.19
3) Snaps/ Brief explanation

<table>
<thead>
<tr>
<th>Event</th>
<th>Live surgery demonstration of laparoscopic hepatectomy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.5.8</td>
</tr>
<tr>
<td>Comments</td>
<td>Live surgery from Seoul National University Bundang Hospital, Korea, was transmitted to three hospitals in Japan. The discussion was made in a casual fashion.</td>
</tr>
</tbody>
</table>

Dr Nakamura and staffs in Kyushu University

Dr Han HS greets to Kyushu U from operating room.

Overview from behind in Kyushu University

Instruments in SNU Bundang Hospital
<table>
<thead>
<tr>
<th>#98 Endoscopy live demonstration 2007.6.9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Event</strong></td>
</tr>
<tr>
<td><strong>Date</strong></td>
</tr>
<tr>
<td><strong>Venue</strong></td>
</tr>
<tr>
<td><strong>Comments</strong></td>
</tr>
</tbody>
</table>

- Endoscopic image is shown on the monitor. Dr Shimizu with Dr Yada and Dr Yoshinaga.
- Picture taken at: Kyoto 2nd Red Cross Hospital
- Picture taken at: Kyushu University Hospital

- The main venue of live demonstration in Kyoto. A doctor's image is in a bigger frame on the monitor.
- Picture taken at: Kyoto 2nd Red Cross Hospital
- Picture taken at: Kyoto 2nd Red Cross Hospital

- Overview from behind in Kyushu University. An engineer, Mr Torata, is checking the system.
- Picture taken at: Kyushu University Hospital
- Picture taken at: Kyushu University Hospital
6. Event Report

3) Snaps/ Brief explanation

<table>
<thead>
<tr>
<th>Event</th>
<th>Live demonstration of colon surgery at Chinese Medical Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.6.21</td>
</tr>
<tr>
<td>Venue</td>
<td>Shanghai Jiaotong Hospital – Kyushu U Hospital – Iwate Medical University – Taipei Veteran General Hospital</td>
</tr>
<tr>
<td>Comments</td>
<td>Symposium on Advancement in Minimally Invasive Surgery for Digestive System Malignancies supported by Chinese Medical Association was held in Shanghai. Live demonstration of colon surgery was broadcasted for the first time from Iwate Med Univ.</td>
</tr>
</tbody>
</table>

Monitor shows four stations connected. Participant enjoys live surgery in Shanghai.

Dr Jiang Tao from Shanghai is at Kyushu station. Dr Qui makes an opening remarks at main venue.

Audience in Shanghai communicates with other sites. Dr Yang and his team in Taipei station.

| Picture taken at : Kyushu University Hospital | Picture taken at : Shanghai Jiaotong University |
| Picture taken at : Shanghai Jiaotong University | Picture taken at : Shanghai Jiaotong University |
| Picture taken at : Shanghai Jiaotong University | Picture taken at : Taipei Veteran General Hospital |
6. Event Report

3) Snaps/ Brief explanation

<table>
<thead>
<tr>
<th>#100</th>
<th><strong>Shanghai live by Chinese Medical Association</strong></th>
<th>2007.6.22</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Event</strong></td>
<td>Live demonstration of gastric surgery at Chinese Medical Association</td>
<td><strong>Comments</strong></td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td>2007.6.22</td>
<td><strong>Venue</strong></td>
</tr>
</tbody>
</table>

This is the first time for Tokyo Medical Dental U to join our project. Chulalongkorn U also joined our surgical teleconference for the first time.

Four stations are on the screen.

Picture taken at: Kyushu University Hospital

Surgical image was broadcasted to three stations.

Picture taken at: Kyushu University Hospital

Dr Shimizu, moderator, and Mr Torata, cameraman.

Picture taken at: Kyushu University Hospital

Dr Nagai is operator at Kyushu U Hospital.

Picture taken at: Kyushu University Hospital

Dr Toma makes a case presentation.

Picture taken at: Kyushu University Hospital

A large audience at the main venue in Shanghai.

Picture taken at: Shanghai Jiaotong U Hospital
#101  Memorial lectures in NORTH annual meeting  2007.7.19

<table>
<thead>
<tr>
<th>Event</th>
<th>Memorial lectures in NORTH annual meeting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.7.19</td>
</tr>
<tr>
<td>Venue</td>
<td>Sapporo Medical University memorial hall – Kyushu University Hospital</td>
</tr>
<tr>
<td>Comments</td>
<td>The content was a disease management (Carna project). We exchanged remote lectures between the two stations, and had a demonstrative remote healthcare instruction from the Sapporo venue using 3D image.</td>
</tr>
</tbody>
</table>

The program of the meeting in the Sapporo venue.

Dr. Nakashima gave a lecture with his eyeball (joking).

Picture taken at : Sapporo Medical University

Picture taken at : Kyushu University Hospital

The 3D image generator combined with two DVcams.

Prof. Tatsumi gave a lecture from Sapporo (right).

Picture taken at : Kyushu University Hospital

Picture taken at : Kyushu University Hospital

The Sapporo venue screen with a 3D image (rt lower).

View of Sapporo venue (the Memorial Hall).

Picture taken at : Sapporo Medical University

Picture taken at : Sapporo Medical University
#102 24th APAN meeting Xian: Singha/Tsunami teleconference 2007.8.29

<table>
<thead>
<tr>
<th>Event</th>
<th>24th APAN meeting Xian: Singha/Tsunami teleconference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.8.29</td>
</tr>
<tr>
<td>Venue</td>
<td>Xian venue – Culalongkorn U, Bangkok – ERNET office, Mumbai – Florida International University, USA</td>
</tr>
</tbody>
</table>

**Comments:**
The teleconference was performed about Tsunami. This is the one of the hot topics after recent big disasters around Southeastern Asia. This is the first time to pick up Tsunami in medical workshop. Florida International U joined APAN for the first time.

Opening remarks for the Tsunami session.

**Picture taken at:** Xian Sheraton Hotel

Main venue for the medical sessions.

**Picture taken at:** Xian Sheraton Hotel

Hina from Singha chairs the session.

**Picture taken at:** Xian Sheraton Hotel

Overview from backside of the venue.

**Picture taken at:** Xian Sheraton Hotel

Participants enjoy the session.

**Picture taken at:** Xian Sheraton Hotel

Technical staff are preparing for the session.

**Picture taken at:** Xian Sheraton Hotel
6. Event Report
3) Snaps/ Brief explanation

#103 24th APAN meeting Xian: Live demonstration of endoscopy 2007.8.29

<table>
<thead>
<tr>
<th>Event</th>
<th>24th APAN meeting Xian: Live demonstration of endoscopy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.8.29</td>
</tr>
<tr>
<td>Comments</td>
<td>Endoscopy was broadcasted from Kyushu U Hospital and Kyoto Red Cross Hospital in Japan to other 6 countries and regions. This is the first event that our network was connected to Europe. Eppendorf University Hospital was successfully joined the live demonstration with great support of GEANT2.</td>
</tr>
</tbody>
</table>

Four out of eight stations are on the screen. All eight stations are shown on the screen.

Picture taken at: Xian Sheraton Hotel

Participants at Kyoto venue in Japan. Participants at Siriraj Hospital in Thailand.

Picture taken at: Kyoto 2nd Red Cross Hospital

Staff at Hanyang University Hospital in Korea. Conference venue building at NUS.

Picture taken at: Hanyang University Hospital

Picture taken at: Xian Sheraton Hotel
### Event Report

#### 3) Snaps/ Brief explanation

<table>
<thead>
<tr>
<th>Event</th>
<th>24th APAN meeting Xian: Nurse teleconference</th>
<th>Date</th>
<th>2007.8.30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Venue</td>
<td>Xian venue/CN</td>
<td>Red Cross International Nursing College/JP</td>
<td>University of Indonesia/ID</td>
</tr>
<tr>
<td></td>
<td>Nurse session was organized by Prof Sakurai, Mie University, Japan. This is the first time to connect Kyushu International Nursing College in Japan and Back Mai Hospital in Vietnam. University of Indonesia joined the teleconference with active discussion.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Opening remarks by Prof Sakurai.

Four stations are clearly shown on the screen.

Picture taken at : Xian Sheraton Hotel

Overview of the main venue from behind.

A large screen at the main venue.

Picture taken at : Xian Sheraton Hotel

Engineering staff at the venue during the session.

They work to keep the session at the best conditions.

Picture taken at : Xian Sheraton Hotel
### 6. Event Report

#### 3) Snaps/ Brief explanation

**#105  24th APAN meeting Xian: Live Surgery Teleconference  2007.8.30**

<table>
<thead>
<tr>
<th>Event</th>
<th>24th APAN meeting Xian: Live Surgery Teleconference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.8.30</td>
</tr>
</tbody>
</table>

**Comments**

Live streaming of colo-rectal surgery was performed on the second day of APAN-Xian. Newly connected sites include Korea University Hospital, Seoul, Korea, Concord Hospital, Sydney, Australia, and University of Bordeaux3 in France. Operation was performed by SH Kim in Korea U.

---

Dr HS Han chairs the session. Seven out of eight stations are shown on the screen.

**Picture taken at:** Xian Sheraton Hotel

Participants at National University of Singapore. Dr Shukla asks questions from Mumbai, India.

**Picture taken at:** National University of Singapore

Engineering staff who helped live demonstrations are from CSTNET, Kyushu U, and KEPCO.

**Picture taken at:** Xian Sheraton Hotel
#106 Kidney Transplantation Teleconference  2007.9.19

<table>
<thead>
<tr>
<th>Event</th>
<th>The 1st Kyushu Kidney Transplantation Teleconference with Okinawa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.9.19</td>
</tr>
<tr>
<td>Venue</td>
<td>Kyushu University Hospital</td>
</tr>
<tr>
<td></td>
<td>– Tomishiro Chuo Hospital, Okinawa</td>
</tr>
</tbody>
</table>

- Renal transplantation teleconference was organized by Dr Sugitani, and Yomishiro Chuo Hospital in Okinawa was connected first time to Kyushu U Hospital.

- Dr Sugitani chairs the conference. The discussion was made about pathological findings.

- Dr Masutani is at Fukuoka, and Dr Shiohira at Naha. Surgical presentation about renal transplantation.

- Overview of the Kyushu U venue from backside. Dr Sugitani makes a comment at Kyushu University.
### #107 The 6th Fukuoka Endoscopic Surgery Forum 2007.9.21

<table>
<thead>
<tr>
<th><strong>Event</strong></th>
<th>The 6th Fukuoka Endoscopic Surgery Forum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date</strong></td>
<td>2007.9.21</td>
</tr>
<tr>
<td><strong>Venue</strong></td>
<td>– Acros Fukuoka – Iwate Medical University – Fujimoto Hayasuzu Hospital, Miyazaki – Tomishiro Chuo Hospital, Okinawa</td>
</tr>
</tbody>
</table>

| **Comments** | This is the third time to set up our teleconference system in this Forum for about 200 participants of surgical nurses. In addition to Iwate Medical University and Fujimoto Hayasuzu Hospital, Tomishiro Chuo Hospital was first to join this seminar remotely from Okinawa. |

A large audience in the venue.  
Four stations are shown on the screen.  
Picture taken at: Fukuoka Acros  

Participants at Okinawa venue.  
One screen for remote station, and the other for local.  
Picture taken at: Tomishiro Chuo Hospital  

A nurse makes a question from the floor..  
Engineers in each station.  
Picture taken at: Iwate Medical College  

#108  Yonsei Gastric Cancer Symposium 2007  2007.10.12

<table>
<thead>
<tr>
<th>Event</th>
<th>Yonsei Gastric Cancer Symposium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.10.12</td>
</tr>
<tr>
<td>Venue</td>
<td>Yonsei University Medical Center</td>
</tr>
<tr>
<td></td>
<td>– Kyushu University Hospital, Japan</td>
</tr>
</tbody>
</table>

**Comments:**
This is the first time that Yonsei University joined our project. Gastric Cancer Symposium was held at Yonsei University Medical Center, and open and robotic gastrectomy were shown to the local as well as remote audience. Sound connection had some problem on their way to Kyushu University Hospital.

---

The main auditorium at Yonsei U Medical Center.

Picture taken at: Yonsei U Medical Center

The surgical staff set up the robot.

Picture taken at: Yonsei U Medical Center

Trocars are inserted into the patient’s abdomen.

Picture taken at: Yonsei U Medical Center

Dr Nagai and Dr Piya are at Kyushu U venue.

Picture taken at: Kyushu University Hospital

Dr WJ Hyung prepares for the robotic surgery.

Picture taken at: Yonsei U Medical Center

The surgical view of the robotic gastrectomy.

Picture taken at: Yonsei U Medical Center
### #109 Live Hepatectomy Demonstration from SNU Bundang Hospital 2007.10.23

<table>
<thead>
<tr>
<th>Event</th>
<th>Live Demonstration of Hepatectomy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.10.23</td>
</tr>
<tr>
<td>Venue</td>
<td>Seoul National University Bundang Hosp</td>
</tr>
<tr>
<td></td>
<td>Kyushu University Hospital</td>
</tr>
</tbody>
</table>

**Comments:**
Live demonstration of laparoscopic liver resection was performed. Dr Han in Seoul showed his skillful surgery to the international audience at Kyushu U Hospital with Dr Aibek from Kazakhstan, Dr Chandika from Sri Lanka, Dr Song from Inha U, Korea, and TeamNet staff from Tokyo.

--

![Picture taken at: Kyushu University Hospital](image1)

Dr Shimizu, Dr Nakamura and many international participants at Kyushu U venue.

--

![Picture taken at: Kyushu University Hospital](image2)

Dr Han makes greetings to Kyushu U audience.

--

![Picture taken at: SNU Bundang Hospital](image3)

Overview at Kyushu U venue.

--

![Picture taken at: Kyushu University Hospital](image4)

Dr Song makes a question about the operation.

--

![Picture taken at: Kyushu University Hospital](image5)

A surgical view shown on the monitor at Kyushu U.
#110  The 1st Early Gastric Cancer Teleconference  2007.10.26

<table>
<thead>
<tr>
<th>Event</th>
<th>The 1st Early Gastric Teleconference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.10.26</td>
</tr>
<tr>
<td>Venue</td>
<td>Kyushu University Hospital</td>
</tr>
<tr>
<td></td>
<td>– Mahidol University Siriraj Hospital</td>
</tr>
<tr>
<td>Comments</td>
<td>To share the knowledge about accurate diagnosis and advanced treatment of early gastric cancers, teleconference was performed for the first time between Siriraj Hospital and Kyushu U Hospital.</td>
</tr>
</tbody>
</table>

Dr Yada chairs the session.  
Overview of Kyushu University venue.  
Picture taken at: Kyushu University Hospital

Endoscopic and pathological views of early cancers.  
Dr Itaba makes a presentation.  
Picture taken at: Kyushu University Hospital

Dr Piya, Dr Thitipong, and Mr Torata at Kyushu site.  
Engineering team at Siriraj Hospital.  
Picture taken at: Kyushu University Hospital  
Picture taken at: Mahidol University Siriraj Hospital
### #111 The 6th Pancreatobiliary Clinico-pathological Teleconference 2007.11.15

<table>
<thead>
<tr>
<th>Event</th>
<th>The 6th Pancreatobiliary Clinico-pathological Teleconference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.11.15</td>
</tr>
<tr>
<td>Venue</td>
<td>Kyushu University Hospital, Fukuoka – Seoul National University Bundang Hospital</td>
</tr>
</tbody>
</table>

**Comments**

The 6th pancreato-biliary Clinico-pathological teleconference was performed between Seoul National University Bundang Hospital and Kyushu University Hospital. One each presentation was made from each side.

**Dr Ienaga explains ERCP findings.**

Picture taken at: Kyushu University Hospital

**Bundang Hospital staff is shown in the monitor.**

Picture taken at: Kyushu University Hospital

**ERCP images are shown for the discussion.**

Picture taken at: Kyushu University Hospital

**Dr Nakamura makes a comment.**

Picture taken at: Kyushu University Hospital

**Mr Torata and his engineering team prepare and control the teleconference.**

Picture taken at: Kyushu University Hospital
#112 Lecture meeting between Oita University Hospital and KUH  2007.11.20

<table>
<thead>
<tr>
<th>Event</th>
<th>Lecture meeting between Oita University Hospital and KUH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.11.20</td>
</tr>
<tr>
<td>Venue</td>
<td>Kyushu University Hospital, Japan</td>
</tr>
<tr>
<td></td>
<td>Oita University Hospital, Japan</td>
</tr>
</tbody>
</table>

This is the first time connection and event with Oita University Hospital. This event was supported by Center for Community Health Networking in each hospital. There are more than three hundred participants in total.

- Prof. Kira, dupty director of KUH.
- Conference view at KUH venue.
- Picture taken at: Kyushu University Hospital

- The venue is crowded with large participants. (KUH)
- The conference view at the venue from behind.
- Picture taken at: Kyushu University Hospital

- Participants enjoy our lecture event.
- Operating staff of KUH (Torata)
- Picture taken at: Oita University Hospital

- Picture taken at: Kyushu University Hospital
#113  Thoracoscopic Surgery Teleconference  2007.11.27

<table>
<thead>
<tr>
<th>Event</th>
<th>Thoracoscopic Surgery Teleconference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.11.27</td>
</tr>
<tr>
<td>Venue</td>
<td>Kyushu University Hospital, JP</td>
</tr>
<tr>
<td></td>
<td>– Fukuoka University Hospital, JR</td>
</tr>
<tr>
<td></td>
<td>– National University of Singapore, SN</td>
</tr>
<tr>
<td>Comments</td>
<td>The teleconference about the thoracic surgery was held for the first time. Kyushu University Hospital was connected to National University of Singapore, and Fukuoka University was newly joined our network.</td>
</tr>
</tbody>
</table>

Opening of the teleconference of thoracic surgery. Picture taken at: Kyushu University Hospital

Overview of the conference room at Kyushu U. Picture taken at: Kyushu University Hospital

The surgical presentation was made from Fukuoka U. Picture taken at: Kyushu University Hospital

Dr Shimizu and Dr Aibek are at Kyushu U venue. Picture taken at: Kyushu University Hospital

Kyushu U participants look at transmitted surgery. Picture taken at: Kyushu University Hospital

Engineering staff at each station. Picture taken at: Kyushu University Hospital
#114  Asia Telemedicine Symposium  2007.12.7

<table>
<thead>
<tr>
<th>Event</th>
<th>Asia Telemedicine Symposium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.12.7</td>
</tr>
<tr>
<td>Venue</td>
<td>Kyushu University Hospital</td>
</tr>
<tr>
<td></td>
<td>- Seoul National University Bundang Hospital, KR</td>
</tr>
<tr>
<td></td>
<td>- National University of Singapore, SN</td>
</tr>
<tr>
<td></td>
<td>- Flinder's University Hospital, AU</td>
</tr>
</tbody>
</table>

Asia Telemedicine Symposium was held at Kyushu University Hospital on Dec 7-8, supported by Japan Society for the Promotion of Science. Over 150 doctors and engineers participated from 8 countries and regions. Teleconference was performed to introduce advanced telemedical centers in Asia-Pacific.

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**Conference view at auditorium in Kyushu U**

Picture taken at: Kyushu University Hospital

**Invited guest with deputy president and hospital dean.**

Picture taken at: Kyushu University Hospital

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**Attendants on second day of the symposium poses in front of the venue entrance after morning session.**

Picture taken at: Kyushu University Hospital

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**Simultaneous translation was provideded.**

Picture taken at: Kyushu University Hospital

**Engineers in each four station.**

Picture taken at: Kyushu University Hospital
### Event Report

#### 3) Snaps/ Brief explanation

<table>
<thead>
<tr>
<th>Event</th>
<th>The 2nd Teleconference with Gyeongsang National University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.12.11</td>
</tr>
<tr>
<td>Venue</td>
<td>Kyushu University Hospital, Fukuoka</td>
</tr>
<tr>
<td></td>
<td>Gyeongsang National University, Jinju</td>
</tr>
</tbody>
</table>

#### Comments

The 2nd teleconference was made in the timing of the mission visit from Gyeongsang National University to Kyushu. Mission members of Kyushu University Hospital, that had visited Jinju in November 2007, attended at the teleconference.

Prof. Jun Hayashi, the leader of the former mission, gave a greeting message.

Prof. Hee Suk Shin, vice president of Gyeongsang NU Hospital was the leader of the mission from Korea.

Pictures taken at: Kyushu University Hospital

A view of the conference with the image from Korea

Online discussion between Korea and Japan.

Pictures taken at: Kyushu University Hospital

Nurses joined and talked with Korea.

The whole view of the conference in Japanese venue.

Pictures taken at: Kyushu University Hospital

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### #116  IRCCS Conference for Health Science Community  2007.12.12

<table>
<thead>
<tr>
<th>Event</th>
<th>IRCCS Conference for Health Science Community</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2007.12.12</td>
</tr>
</tbody>
</table>
| Venue | Kyushu University Hospital, Fukuoka  
|       | University of Rome3 |
| Comments | A live demonstration was transmitted from Kyushu U, Japan, to Rome, Italy, with great support of GARR. This is the first time that our network was connected to Italy. Endoscopy introduced using a model, and a recorded surgical video was presented. |

The main venue in Rome where Dr Shimizu presents.  
Medical staff for live demonstration in Kyushu U.

*Picture taken at: University of Rome3*  
*Picture taken at: Kyushu University Hospital*

Dr Yada shows a model for the remote audience.  
Dr Yada shows endoscopic procedures using a model.

*Picture taken at: Kyushu University Hospital*  
*Picture taken at: Kyushu University Hospital*

Dr Tanabe makes a presentation about surgery.  
Mr Torata explains his DVTS system.

*Picture taken at: Kyushu University Hospital*  
*Picture taken at: Kyushu University Hospital*
**#117 25th APAN-Hawaii · Live Robotic surgery and endoscopy 2008.1.23**

<table>
<thead>
<tr>
<th>Event</th>
<th>Live demonstration of Robotic surgery and endoscopy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2008.1.23</td>
</tr>
</tbody>
</table>

| Comments | Live demonstration was performed at APAN in Hawaii for robotic surgery from Yonsei U, Korea, and endoscopy from Kyushu U, Japan. Remote station include UC Irvine in US for the first time and Shanghai Jiaotong U in China. North Shore Hospital in Sydney joined but only with Polycom. |

---

**Prof Okamura explains the system for the demo.**

*Picture taken at: University of Hawaii*

**Medical staff in Kyushu U for endoscopy.**

*Picture taken at: Kyushu University Hospital*

---

**Five connected stations are on the screen.**

*Picture taken at: University of Hawaii*

**Surgery, endoscopy, and other station view.**

*Picture taken at: Kyushu University Hospital*

---

**Overview at the venue in Hawaii.**

*Picture taken at: University of Hawaii*

**Dr Yoshinaga with Dr Tuganbekov and Dr Mohamed.**

*Picture taken at: Kyushu University Hospital*
<table>
<thead>
<tr>
<th>Event</th>
<th>25th APAN-Hawaii - Healthcare teleconference 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2008.1.24</td>
</tr>
<tr>
<td>Venue</td>
<td>Hawaii venue (US) – Kyushu U Hosp (JP) – Chungbuk National U KR – Stanford U (US)</td>
</tr>
<tr>
<td>Comments</td>
<td>Healthcare teleconference was divided into two sessions. The first one was organized by Dr YS Lee in Korea, connecting four stations. Chungbuk National University was newly connected to us. The topics are about medical informatics in each country.</td>
</tr>
</tbody>
</table>

Dr YS Lee and Prof Sakurai chairs the session.

The audience at Hawaii venue.

Dr Shimizu speaks in the medical WG meeting.

Overview of the conference room at the venue.

A monitor at Stanford University.
## Event Report

<table>
<thead>
<tr>
<th><strong>Event</strong></th>
<th>25th APAN-Hawaii - Healthcare teleconference 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date</strong></td>
<td>2008.1.24</td>
</tr>
</tbody>
</table>

### Comments
The second teleconference about healthcare was joined by seven stations. University of Wisconsin, US, and MedicVision in Melbourne, Australia, were newly connected to our network.

### Overview of the venue with Japanese garden behind.

**Picture taken at**: University of Hawaii

### All seven stations appears on the screen.

**Picture taken at**: University of Hawaii

### The venue at Melbourne station.

**Picture taken at**: MedicVision at Melbourne

### Dr Nakashima makes his presentation.

**Picture taken at**: Kyushu University Hospital

### Dr Senger presents his digital anatomy.

**Picture taken at**: University of Hawaii

### Prof Okamura and Mr Omori works for the session.

**Picture taken at**: University of Wisconsin
#120  The 2nd Early Gastric Cancer Teleconference  2008.2.22

<table>
<thead>
<tr>
<th>Event</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>The 2nd Early Gastric Teleconference</td>
<td>This is the second teleconference to study how to make a better diagnosis of early gastric cancer between Siriraj Hospital and Kyushu U Hospital. Another station will be invited to the third teleconference on July 4.</td>
</tr>
</tbody>
</table>

| Date       | 2008.2.22                                                                 |

| Venue       | Kyushu University Hospital  – Mahidol University Siriraj Hospital |

| Comments | A young doctor in Siriraj tries to make a diagnosis. Kyushu University staff, Yada, Itaba, and Yoshinaga. |

| Picture taken at: | Kyushu University Hospital |

| Thai and Kyushu staff are on the same screen. Another doctor makes a comment about the pictures. |

| Picture taken at: | Kyushu University Hospital |

| Dr Yada makes a question to doctors in Siriraj. Equipments used in Kyushu University Hospital. |

| Picture taken at: | Kyushu University Hospital |
### Master Workshop on Novel Endoscopic Technology

#### 2008.3.19

<table>
<thead>
<tr>
<th>Event</th>
<th>ESD live demonstration supported by the World Organization for Digestive Endoscopy (OMED)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>2008.3.19</td>
</tr>
<tr>
<td>Venue</td>
<td>Kyushu University Hospital (Japan)</td>
</tr>
<tr>
<td></td>
<td>Chinese University of Hong Kong</td>
</tr>
<tr>
<td>Comments</td>
<td>Endoscopy Workshop was held in Hong Kong on March 19-21 supported by OMED. A demonstration of endoscopic submucosal dissection (ESD) was broadcasted from Kyushu U Hosp together with local demos at the venue.</td>
</tr>
</tbody>
</table>

---

**The poster of the workshop at the venue.**

**Dr Yoshinaga performs ESD with Dr Nakamura.**

**Picture taken at**: Chinese University of Hong Kong

---

**Views of a venue and an endoscopy are in a monitor.**

**Dr Ng and Dr Sung chairs the live session.**

**Picture taken at**: Kyushu University Hospital

---

**A big auditorium with a screen in the center.**

**Equipments prepared at the endoscopic room.**

**Picture taken at**: Chinese University of Hong Kong

**Picture taken at**: Kyushu University Hospital
4) Results of questionnaires

#102-103 24th APAN meeting Xi'an (Day 1) 2007.8.29

The 24th APAN Meeting in Xian, China / 2007.8.29

(1) About the quality of moving image

<table>
<thead>
<tr>
<th>Answer</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>very good</td>
<td>13</td>
</tr>
<tr>
<td>good</td>
<td>42</td>
</tr>
<tr>
<td>poor</td>
<td>6</td>
</tr>
<tr>
<td>very poor</td>
<td>0</td>
</tr>
<tr>
<td>no answer</td>
<td>0</td>
</tr>
</tbody>
</table>

(2) About the quality of sound

<table>
<thead>
<tr>
<th>Answer</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>very good</td>
<td>4</td>
</tr>
<tr>
<td>good</td>
<td>44</td>
</tr>
<tr>
<td>poor</td>
<td>13</td>
</tr>
<tr>
<td>very poor</td>
<td>1</td>
</tr>
<tr>
<td>no answer</td>
<td>0</td>
</tr>
</tbody>
</table>

(3) About the delay of the sound

<table>
<thead>
<tr>
<th>Answer</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>very small</td>
<td>12</td>
</tr>
<tr>
<td>small</td>
<td>42</td>
</tr>
<tr>
<td>big</td>
<td>5</td>
</tr>
<tr>
<td>very big</td>
<td>1</td>
</tr>
<tr>
<td>no answer</td>
<td>1</td>
</tr>
</tbody>
</table>

(4) About the program

<table>
<thead>
<tr>
<th>Answer</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>very good</td>
<td>17</td>
</tr>
<tr>
<td>good</td>
<td>30</td>
</tr>
<tr>
<td>poor</td>
<td>3</td>
</tr>
<tr>
<td>very poor</td>
<td>0</td>
</tr>
<tr>
<td>no answer</td>
<td>0</td>
</tr>
</tbody>
</table>
6. Event Report
4) Results of questionnaires

(5) Will you attend endoscopic sessions next time again?

<table>
<thead>
<tr>
<th>Answer</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>26</td>
</tr>
<tr>
<td>probably yes</td>
<td>19</td>
</tr>
<tr>
<td>probably no</td>
<td>1</td>
</tr>
<tr>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>no answer</td>
<td>1</td>
</tr>
</tbody>
</table>

(6) Would you like to use this broadband technology actively in the future?

<table>
<thead>
<tr>
<th>Answer</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>24</td>
</tr>
<tr>
<td>probably yes</td>
<td>20</td>
</tr>
<tr>
<td>probably no</td>
<td>0</td>
</tr>
<tr>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td>no answer</td>
<td>0</td>
</tr>
</tbody>
</table>

(7) If you found any problems in the teleconferene, please write any comments you have.

* Standardization of presentation window, each sites.
* Sound preparation should be taken time
* Sound quality from some station (Malaysia) Very interesting, very good program.
* The sound from Malaysia is not stable.
* Sometimes No voice, and sometimes noisy or too big.
* Sound control QOS problem diagnosis should be active asap.
* If there’s comm. Problem, please as participants.
* They are expert, TCC. Also, they can speak native language, and may solve problem faster.
* No participation from audience who are not MD.
* Please observe that these people doesn’t understand what we’re talk about, or doing! Please, more detail.
* some noises transmission radio & video
* some echo sound and noises from other phone
* Voice problem
* View not clear from Kyoto.
* The bow was frequently interfered.
* Condition of sound is a little poor.
* Ability of speaking English
* Technological problem (like monitor problem)
* People of other countries don’t speak.
* I want you to give more chance to speak to other country.
* Only some stations are participating in this conference.
* Every station should have equal chances.
* Delay of operating the teleconference.
* Low volume of sound from transfer.
* Harder to concentrate than conventional conference. (too many stations shown of once)
* Mood is quite confused.
* Network of each countries doesn’t smooth.
* There are problems about voice transmission and quality of image.
* Duplication progression is not smooth.
* Each hospital must improve the communication system.
(8) Please write down any possible programs suitable for the medical teleconference.
* Standardization of presentation figure
* Would be better, if could include south asian region station in this program hopefully in next program.
* Eye Surgery: Less time, less blood, more common to audience, U/S or pacs
* I don’t think this would be interesting next time. Any consulting an hire would be interesting.
* Exchange live demonstration each other.
* It’s may rare cases that are suitable.
* More breaking time
* X-ray conference, for X-ray conference
* Any problem would be suitable. / Showing latest procedures.
* Case review
* We need some drinks, foods and coffee time.
* Lecture, ERP, ENS

(9) What is your occupation?

<table>
<thead>
<tr>
<th>Answer</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical doctor</td>
<td>12</td>
</tr>
<tr>
<td>Engineer</td>
<td>13</td>
</tr>
<tr>
<td>Others</td>
<td>4</td>
</tr>
<tr>
<td>University professor</td>
<td>7</td>
</tr>
<tr>
<td>Architect</td>
<td>11</td>
</tr>
<tr>
<td>Marketing</td>
<td>7</td>
</tr>
<tr>
<td>Instructor</td>
<td>3</td>
</tr>
<tr>
<td>Other medical staff</td>
<td>12</td>
</tr>
<tr>
<td>Student</td>
<td>12</td>
</tr>
</tbody>
</table>

(10) Which is your generation?

<table>
<thead>
<tr>
<th>Answer</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 20's</td>
<td>1</td>
</tr>
<tr>
<td>20's</td>
<td>20</td>
</tr>
<tr>
<td>30's</td>
<td>21</td>
</tr>
<tr>
<td>40's</td>
<td>11</td>
</tr>
<tr>
<td>50's</td>
<td>7</td>
</tr>
<tr>
<td>Over 60's</td>
<td>0</td>
</tr>
</tbody>
</table>

(11) Which station did you attend?

<table>
<thead>
<tr>
<th>Answer</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xian</td>
<td>17</td>
</tr>
<tr>
<td>Kyushu</td>
<td>1</td>
</tr>
<tr>
<td>Kyoto</td>
<td>0</td>
</tr>
<tr>
<td>Seoul</td>
<td>26</td>
</tr>
<tr>
<td>Taipei</td>
<td>0</td>
</tr>
<tr>
<td>Bangkok</td>
<td>20</td>
</tr>
<tr>
<td>Kuala Lumpur</td>
<td>0</td>
</tr>
<tr>
<td>Hamburg</td>
<td>0</td>
</tr>
</tbody>
</table>
6. Event Report
4) Results of questionnaires

The 24th APAN Meeting in Xian, China / 2007.8.30

(1) About the quality of moving image

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<tr>
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</thead>
<tbody>
<tr>
<td>very good</td>
<td>29</td>
</tr>
<tr>
<td>good</td>
<td>30</td>
</tr>
<tr>
<td>poor</td>
<td>5</td>
</tr>
<tr>
<td>very poor</td>
<td>0</td>
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<td>no answer</td>
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(2) About the quality of sound

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(3) About the delay of the sound

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</tr>
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<tbody>
<tr>
<td>very small</td>
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</tr>
<tr>
<td>small</td>
<td>20</td>
</tr>
<tr>
<td>big</td>
<td>18</td>
</tr>
<tr>
<td>very big</td>
<td>4</td>
</tr>
<tr>
<td>no answer</td>
<td>4</td>
</tr>
</tbody>
</table>

(4) About the program

<table>
<thead>
<tr>
<th>Answer</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>very good</td>
<td>18</td>
</tr>
<tr>
<td>good</td>
<td>35</td>
</tr>
<tr>
<td>poor</td>
<td>3</td>
</tr>
<tr>
<td>very poor</td>
<td>0</td>
</tr>
<tr>
<td>no answer</td>
<td>4</td>
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</table>
6. Event Report

4) Results of questionnaires

(5) Will you attend endoscopic sessions next time again?

<table>
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<tbody>
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<td>Yes</td>
<td>33</td>
</tr>
<tr>
<td>probably yes</td>
<td>22</td>
</tr>
<tr>
<td>probably no</td>
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</tr>
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(6) Would you like to use this broadband technology actively in the future?

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<tr>
<td>Yes</td>
<td>38</td>
</tr>
<tr>
<td>probably yes</td>
<td>19</td>
</tr>
<tr>
<td>probably no</td>
<td>1</td>
</tr>
<tr>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td>no answer</td>
<td>2</td>
</tr>
</tbody>
</table>

(7) If you found any problems in the teleconference, please write any comments you have.
* use HDTV instead of DVTS
* high packet loss
* somestations leave mic open
* Delay was quiet noticeable difficult to understand at times.
* Large delay significant rebound
* Echo/ from where especially on right channel
* Once the initial problems were worked out, it become very user friendly.
* We need analyze & reduce delay & indentify bottlenecks.
* All site need to mute their microphones.
* Sound quality needs to be better, for better understanding of the procedure & communications.
* Occasional delays in sound transmission & jerky images
* delay of sound
* Is it possible to have multiple simultaneous conversation?
* Sound quality should be improved.
* There is lot of time spent on preparation ("Can you hear me?")
* Faster pre-operative testing of feeds.
* Maybe there should be some form of hand signals, other signals to be able to ask questions.
* Echo/feedback of sound quality
* Little/some delay of sound is enough.
* some lag during transmission.
* Not all rites ready at start.
6. Event Report

4) Results of questionnaires

(8) Please write down any possible programs suitable for the medical teleconference.
* "Bioterrorism" for the urgency
* case conference
* Advance Endoscopy/Colonoscopy
* Total Mesorectal/Colonoscopy
* Lateral Pelvic Node Dissection
* Ophthalmology, Otorhinolaryngology
* Other international conference, lectures, etc.
* Can’t think of one now.
* Endoscopy sinus surgery.

(9) What is your occupation?

<table>
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</thead>
<tbody>
<tr>
<td>Medical doctor</td>
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</tr>
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<td>Engineer</td>
<td>13</td>
</tr>
<tr>
<td>Others</td>
<td></td>
</tr>
<tr>
<td>–Professor</td>
<td>18</td>
</tr>
<tr>
<td>–University …</td>
<td></td>
</tr>
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<td>Other medical staff</td>
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<td>15</td>
</tr>
<tr>
<td>40’s</td>
<td>12</td>
</tr>
<tr>
<td>50’s</td>
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</tr>
<tr>
<td>Seoul</td>
<td>7</td>
</tr>
<tr>
<td>Tokyo</td>
<td>12</td>
</tr>
<tr>
<td>Singapore</td>
<td>11</td>
</tr>
<tr>
<td>Manila</td>
<td>4</td>
</tr>
<tr>
<td>Mubbai</td>
<td>4</td>
</tr>
<tr>
<td>Sydney</td>
<td>11</td>
</tr>
<tr>
<td>Bordeaux</td>
<td>0</td>
</tr>
</tbody>
</table>
#112 Lecture meeting between Oita University Hospital and KUH  2007.11.20

**Questionnaire**

**Event:** Lecture meeting between Oita University Hospital and KUH

**Date and time:** November 20, 2007 (Tue.), 18:00-20:00

**Venue:** Kyushu University Hospital  
Oita University Hospital

**Theme:** Rehabilitation and Regional Alliances during Recovery Phase  
~Focusing on study cases of strokes~

**Questions:**

1. Ratio of participants

   **Kyushu University Hospital**
   - In-house participants: 26.6%
   - Out-of-house participants: 73.4%

   **Oita University**
   - In-house participants: 35.8%
   - Out-of-house participants: 64.2%

2. Breakdown of participants by occupation

   **Kyushu University Hospital**
   - doctor: 24.5%  
   - nurse: 29.4%  
   - physical therapist (PT): 10.8%  
   - occupational therapist (OT): 3.5%  
   - speech therapist (ST): 2.7%  
   - social worker (SW): 19.9%  
   - medical processor: 11.9%  
   - students: 27.0%

   **Oita University**
   - doctor: 17.2%  
   - nurse: 17.2%  
   - physical therapist (PT): 10.1%  
   - occupational therapist (OT): 10.1%  
   - speech therapist (ST): 1.7%  
   - social worker (SW): 1.7%  
   - medical processor: 1.4%  
   - students: 9.6%

   **Total**
   - doctor: 19.9%  
   - nurse: 27.0%  
   - physical therapist (PT): 11.3%  
   - occupational therapist (OT): 11.3%  
   - speech therapist (ST): 5.0%  
   - social worker (SW): 5.0%  
   - medical processor: 5.0%  
   - students: 13.4%  
   - others: 13.4%
3. Have you participated in remote lectures before?

<table>
<thead>
<tr>
<th>Kyushu University Hospital</th>
<th>Oita University</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>24.2%</td>
<td>10.0%</td>
<td>18.9%</td>
</tr>
<tr>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>75.8%</td>
<td>90.0%</td>
<td>81.1%</td>
</tr>
</tbody>
</table>

4. Quality of moving image

<table>
<thead>
<tr>
<th>Kyushu University Hospital</th>
<th>Oita University</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poor</td>
<td>Poor</td>
<td>Poor</td>
</tr>
<tr>
<td>17.6%</td>
<td>7.6%</td>
<td>13.8%</td>
</tr>
<tr>
<td>Very poor</td>
<td>Very poor</td>
<td>Very poor</td>
</tr>
<tr>
<td>0.8%</td>
<td>0.0%</td>
<td>0.5%</td>
</tr>
<tr>
<td>Very good</td>
<td>Very good</td>
<td>Very good</td>
</tr>
<tr>
<td>11.5%</td>
<td>19.0%</td>
<td>14.3%</td>
</tr>
<tr>
<td>Good</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>70.2%</td>
<td>73.4%</td>
<td>71.4%</td>
</tr>
</tbody>
</table>

5. Quality of sound

<table>
<thead>
<tr>
<th>Kyushu University Hospital</th>
<th>Oita University</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poor</td>
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6. Would you like to participate in a similar remote lecture in the future?

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<td>61.1%</td>
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</table>
7. Paper list


   HPB 9: 398-399, 2007


8. Meeting and lecture list

1. Shimizu S, Nakashima N, Okamura K, Tanaka M:
   Establishment of high-quality interactive telesurgery system in Asia-Pacific area using superfast Internet connection.
   SAGES2007 (Society of American Gastrointestinal and Endoscopic Surgeons)

2. Shimizu S:
   APAN Medical WG Activities,
   Spring 2007 Internet2 Member Meeting,

3. Shimizu S:
   DVTS experience with telemedicine in Asia-Pacific,
   Spring 2007 Internet2 Member Meeting,
   Washington DC, USA, 2007/4/23-25, Workshop

4. Shimizu S:
   Remote Medical Education Using Academic Network in Asia-Pacific
   HIMSS Asia Pac 07-Conference & Exhibition
   Singapore, 2007/5/15-18, Educational lecture

5. Okamura K, Shimizu S:
   DVTS experience with telemedicine in Asia-Pacific
   The 4th GEANT2 Technical Workshop,

6. Shimizu S:
   Telemedicine activities in the future
   Post graduate course: Laparoscopic Surgery,
   Seoul(Bundang), Korea, 2007/6/4, Invited lecture

7. Shimizu S:
   Current Project of APAN Medical Network,
   International ICT-Conference, Asia-Pacific Weeks 2007
   Berlin, Germany, 2007/9/10-23, Invited lecture
8. Shimizu S:
High-quality telemedicine project over Asia-Pacific Advanced Network: Possible collaboration with Kazakhstan,
Kazakhstan State Medical Academy,
Almaty, Kazakhstan, 2007/9/26, Invited lecture

9. Shimizu S:
Endoscopic Surgery: Current Status in Japan and Future in Asia,
National Research Medical Center,
Almaty, Kazakhstan, 2007/9/27, Invited lecture

10. Shimizu S:
Expansion of medical activity to Asia-Pacific and Western Countries,
Core University Program Seminar,
Jeju, Korea, 2007/10/1-2, Workshop

11. Shimizu S:
Update of telemedical activities in Kyushu University Hospital,
ANW (Advanced Network Workshop)
Seoul, Korea, 2007/11/1-2, Oral

12. Shimizu S, Yada S, Nakashima N, Okamura K, Tanaka M:
Asian-Pacific tele-endoscopy project using next-generation internet.
Asian Pacific Digestive Week 2007,
Kobe, Japan, 2007/10/15-18, Oral

Experience of remote robotic Tele-Surgery using minimally invasive surgical system made in Japan
The 19th International Conference of Society for Medical Innovation and Technology (SMIT2007)
Sendai, Japan, 2007/11/19-2, Symposium

14. Shimizu S, Han HS, Okamura K, Nakashima N, Tanaka M:
Remote surgical education using super-fast academic network in Asia-Pacific
The 19th International Conference of Society for Medical Innovation and Technology (SMIT2007),
Sendai, Japan, 2007/11/20-22, Symposium
15. Shimizu S:
Advanced telemedicine project in Asia-Pacific and possible collaboration with
Europe-Importance of cooperation between doctors and engineers,
Health Science community-IRCCS Conference,
Roma, Italy, 2007/12/12, Invited lecture

16. Shimizu S:
Endoscopic network: How to make it happen?
7th International Workshop on Advanced Endoscopy
Bangkok, 2007/2/19-21, 2008, Invited lecture
9. Press list

Press Release, Newspaper, TV, Magazine, Web page

1. TEIN2 Network delivers healthcare knowledge transfer in Asia Pacific
   TEIN2 brochure 2007

2. Telemedicine
   Homepage of TEIN2 (Trans-Eurasia Information Network), 2007

3. 6th Conference of Asian University Presidents
   Kyushu University News Vol.20, page 25, 2007 Autumn


5. The Asia Telemedicine Symposium
   Japan Journal, Dec 2007

6. Topics “Remote medicine”
   Homepage of Kyushu University Faculty of Medicine, Dec 6, 20
10. Collaborating institutes

(In order of ABC)

**AARNet: Australia's Research and Education Network**
http://www.aarnet.edu.au/ (English)

**ANF: Advanced Network Forum**
http://anf.ne.kr/ (English)

**APAN: Asia-Pacific Advanced Network**
http://www.apan.net/ (English)

**ASCC: Academia Sinica Computing Center**
http://www.ascc.sinica.edu.tw/ (Chinese)
http://www.ascc.sinica.edu.tw/en/about/overview.html (English)

**ASTI: Advanced Science and Technology Institute**
http://www.asti.dost.gov.ph/ (English)

**The Australian National University**
http://www.anu.edu.au/ (English)

**CERNET: China Education and Research Network**
http://www.net.edu.cn/ (Chinese)
http://www.net.edu.cn/HomePage/english/index.shtml (English)

**The Chinese University of Hong Kong**
http://www.cuhk.edu.hk/v6/en/ (English)

**Chulalongkorn University**
http://www.chula.ac.th/chula/th/main.html (Thai)
http://www.chula.ac.th/chula/en/index.html (English)

**Chungnam National University**
http://plus.cnu.ac.kr/ (Korean)
http://plus.cnu.ac.kr/english/index.jsp (English)
10. Collaborating institutes

**Core University Program: Development and Operation of the NGI (Next Generation Internet) Technologies**
http://www.jsps.go.jp/j-bilat/core/data/02_ichiran/10_kyushu.pdf (Japanese)
http://www.jsps.go.jp/j-bilat/core/data/01_about/asia_en.pdf (English)

**DANTE: Delivery of Advanced Network Technology to Europe**
http://www.dante.net/?PHPSESSID=9ebe4453af6b2eab511e4da424ed07f6 (English)

**e! project**
http://www.soumu.go.jp/joho_tsusin/e_project/index.html (Japanese)

**ERNET (Education and Research Network)**
http://www.ernet.in/erhindi/index.htm (Hindi)
http://www.ernet.in/index.htm (English)

**Ewha Womans University**
http://www.ewha.ac.kr/ (Korean)
http://www.ewha.ac.kr/eng/main.html (English)

  - Hospital
http://home.ewha.ac.kr/~euhs/ (Korean)
http://www.ewha.ac.kr/eng/service/health_service_center.jsp (English)

**Flinders University**
http://www.flinders.edu.au/ (English)

**Fujimoto-Hayasuzu Hospital**
http://www.fujimoto.or.jp/hayasuzu/homepage.htm (English)

**GÉANT**
http://www.geant.net/ (English)

**G/H project: Hyeonhae/Genkai project**
http://genkai.info/ (Japanese)

**General Hospital of People's Liberation Army**
http://301.hos.999120.net/ (Chinese)

**GIST: Gwangju Institute of Science and Technology**
http://www.gist.ac.kr/index.php (Korean)
http://www.gist.ac.kr/english/index.php (English)
10. Collaborating institutes

GyeongSang National University
http://www.gsnu.ac.kr/#top (Korean)
http://www.gsnu.ac.kr/english/ (English)

Hamamatsu University School of Medicine
http://www.hama-med.ac.jp/ (Japanese)

Hanyang University
http://www.hanyang.ac.kr/ (Korean)
http://www.hanyang.ac.kr/english/ (English)
- Hospital
http://hmc.hanyang.ac.kr/ (Korean)

HARNET: The Hong Kong Academic & Research NETwork
http://www.cuhk.edu.hk/itsc/chinese/ (Chinese)
http://www.cuhk.edu.hk/itsc/network/har-int-link.html (English)

HIJK: High Internet Project between Japan and Korea
http://www.hijk.org/ (English)

ITB: Institut Teknologi Bandung
http://www.itb.ac.id/en/ (English)

Iwate Medical University
http://www.iwate-med.ac.jp/ (Japanese)

JAMINA: Japan Medical Information Network Association
http://www.jamina.jp/ (Japanese)

Johnson & Johnson K.K.
http://www.jnj.com/ (English)
http://www.jnj.co.jp/entrance/index.html (Japanese)

JSPS: Japan Society for the Promotion of Science
http://www.jsps.go.jp/ (Japanese)
http://www.jsps.go.jp/english/index.html (English)

KISDI: Korean Information Strategy Development Institute
http://www.kisdi.re.kr/ (Korean)
http://www.kisdi.re.kr/user.tdf?a=user.eng.index.IndexApp&c=1001 (English)
KOREN: Korea Advanced Research Network
http://www.koren21.net/eng/index.php (English)
http://www.koren21.net/ (Korean)

KOSEF: Korea Science and Engineering Foundation
http://www.kosef.co.kr/ (Korea)
http://kosef.co.kr/eng/ (English)

KT: Korea Telecom
http://www.kt.co.kr/kthome/index.jsp (Korean)
http://www.kt.co.kr/eng/main.jsp (English)
http://event.kt.co.kr/china/main.jsp (Chinese)

Kyushu Electric Power Co., Inc.
http://www.kyuden.co.jp/ (Japanese)
http://www.kyuden.co.jp/en_index (English)

Kyushu University
http://www.kyushu-u.ac.jp/ (Japanese)
http://www.kyushu-u.ac.jp/english.new/eng/index.html (English)
http://www.isc.kyushu-u.ac.jp/intlweb-k/index.htm (Korean)

-Hospital
http://www.hosp.kyushu-u.ac.jp/index.php (Japanese)
http://www.hosp.kyushu-u.ac.jp/index-e.html (English)

Mahidol University
http://www.mahidol.ac.th/muthai/ (Thai)
http://www.mahidol.ac.th/ (English)

NACESTI: National Centre for Scientific and Technological Information
http://english.vista.gov.vn/english/ (English)

Nagasaki University
http://www.nagasaki-u.ac.jp/ (Japanese)
http://www.nagasaki-u.ac.jp/index_en.html (English)
http://www.nagasaki-u.ac.jp/index_en.html (Chinese)
http://www.nagasaki-u.ac.jp/index_kr.html (Korean)

-Hospital
http://www.mh.nagasaki-u.ac.jp/ (Japanese)
10. Collaborating institutes

**National Cancer Center, Goyang, Korea**
[http://www.ncc.re.kr/](http://www.ncc.re.kr/) (Korean)
[http://www.gsnu.ac.kr/english/](http://www.gsnu.ac.kr/english/) (English)

**National Cancer Center, Tokyo, Japan**
[http://www.ncc.go.jp/jp/](http://www.ncc.go.jp/jp/) (Japanese)
[http://www.ncc.go.jp/index.html](http://www.ncc.go.jp/index.html) (English)

**NCHC: National Center for High-performance Computing, Taiwan**

**NECTEC: National Electronic and Computer Technology Center, Thailand**
[http://www.nectec.or.th/](http://www.nectec.or.th/) (Thai)

**NICT: National Institute of Information and Communications Technology, Japan**

**NII: National Institute of Informatics, Japan**
[http://www.nii.ac.jp/index.shtml.en](http://www.nii.ac.jp/index.shtml.en) (English)

**National Taiwan University**
[http://www.ntu.edu.tw/english/main.html](http://www.ntu.edu.tw/english/main.html) (English)

**National University of Singapore**
[http://www.nus.edu.sg/](http://www.nus.edu.sg/) (English)

**NORTH: Network Organization for Research and Technology in Hokkaido**

**NTTcommunications**
[http://www.ntt.com/index-e.html](http://www.ntt.com/index-e.html) (English)

**Peking University**
[http://en.pku.edu.cn/](http://en.pku.edu.cn/) (English)
10. Collaborating institutes

**QGPOP: Kyushu GigaPOP Project**
http://www.qgpop.net/en/ (English)

**QIC: Kyuden Infocom Company, Inc.**
http://www.qic.co.jp/ (Japanese)

**QTNet: Kyushu Telecommunication Network Co., Inc.**
http://www.qtnet.co.jp/ (Japanese)
http://www.qtnet.co.jp/e_site/index.html (English)

**Sapporo Medical College**
http://web.sapmed.ac.jp/ (Japanese)
http://web.sapmed.ac.jp/e/ (English)
  - Hospital
  http://web.sapmed.ac.jp/byoin/ (Japanese)

**Seoul National University**
http://www.snu.ac.kr/ (Korean)
http://www.snu.ac.kr/engsnu/ (English)
  - Main Hospital
  http://www.snuh.org/ (Korean)
  - Bundang Hospital
  http://www.snubh.org/ (Korean)

**Shanghai Jiaotong University affiliated Shanghai First People's Hospital**
http://www.situ.edu.cn (Chinese)

**SingAREN: Singapore Advanced Research and Education Network**
http://www.singaren.net.sg/start.php (English)

**Siriraj Hospital, Faculty of Medicine, Mahidol University**
http://www.si.mahidol.ac.th/siweb_2007/ (Thai)
http://www.si.mahidol.ac.th/siweb_2007_eng/ (English)

**Stanford University**
http://www.stanford.edu/ (English)

**Taipei Veterans General Hospital**
http://www.vghtpe.gov.tw/inter.htm (Chinese)
http://www.vghtpe.gov.tw/doc/ (English)
10. Collaborating institutes

**Taichung Veterans General Hospital**
http://www.vghtc.gov.tw/portal/m2/portalhome (Chinese)
http://www.vghtc.gov.tw/portal/english/introduction.htm (English)

**Tata Memorial Hospital**
http://tmc.gov.in/ (English)

**TEIN2 (Trans-Eurasia Information Network)**
http://www.tein2.net/ (English)

**TWAREN: Taiwan Advanced Research and Education Network**
http://www.twaren.net/ (Chinese)
http://www.twaren.net/english/ (English)

**The University of Adelaide**
http://www.adelaide.edu.au/ (English)

**ThaiSarn: Thai Social/Scientific, Academic and Research Network**
http://thaisarn.nectec.or.th/htmlweb/index.php (English)

**Thai UniNet: Thai University Network**
http://www.uni.net.th/mainwebsite_html/ (Thai)
http://www2.uiak.ac.at/asea-uninet/ (English)

**Tsinghua University**
http://www.tsinghua.edu.cn/ (Chinese)
http://www.tsinghua.edu.cn/eng/ (English)

**Viet Nam National Hospital of Pediatrics**
http://www.benhviennhitu.org.vn/intro_en.asp (English)

**VINAREN: Viet Nam, the research and education networks**
http://www.vinaren.vn/vietnam (Vietnam)
http://www.vinaren.vn/english (English)

**University of Indonesia**
http://www.ui.edu/indonesia/index.php (Indonesia)
http://www.ui.edu/english/index.php (English)
10. Collaborating institutes

*University of the Philippines Manila*
http://www.upm.edu.ph/ (English)

*University of Tokyo*
http://www.u-tokyo.ac.jp/index_j.html (Japanese)
http://www.u-tokyo.ac.jp/index_e.html (English)

*Yamanashi University*
http://www.yamanashi.ac.jp/ (Japanese)
http://www.yamanashi.ac.jp/english/index.html (English)
Dr. Koichiro Muta passed away aged 51 years on 30th June, 2007. He had struggled with an illness for eleven months. Dr. Muta participated in international medical volunteer activity in Cambodia as a member of ODA in his student days. It was there that he met his wife, a Thai. They later had two boys. Dr. Muta was a truly a man for Asia-international medical relationships. He joined AQUA in August 2005 and held many telemedical network conferences related to thalassemia and gastric tumors induced by the EB virus, as the chief of the hematologic team of the Department of Medicine and Bioregulatory Science, Graduate School of Medical Science, Kyushu University. He hosted the first “Asian Healthcare Conference” as the first chief of the Division of the Asian International Medical Relationship at Kyushu University Hospital. He also contributed to the establishment of the Islam University Faculty of Medicine in Indonesia. In 2006, he obtained funding for a hematologic research exchange project with Mahidol University in Thailand. Asia has many problems involving emergent infectious diseases, serious environmental pollution, natural disasters and terrorism; thus, Dr Muta may be worrying about us while at the same time be encouraging us. Although, he could not achieve his goal in the time allotted to him, his memory and aims remain with us. His manner for conducting international relationships was always heartwarming; this must remain with us as we carry on. We recognize his contributions and promise to contribute to the fields in Asian healthcare that were close to his heart. May he rest in peace.

The late Dr. Muta participating in the first teleconference between Gyeongsang University, Korea and Kyushu University Hospital on 15 September 2006. He was the leader of the project and was also the moderator for the conference at the Korean station. At that time, he was already struggling with his illness.

17th March, 2008
Naoki Nakashima MD, PhD
Department of Medical Informatics, Kyushu University Hospital
11. Closing

Epilogue

The “IT strategy of Fukuoka prefecture 2008” notes that Fukuoka prefecture will support AQUA's activity. The Japanese Prime Minister, Mr. Fukuda, referred to the activities of AQUA's in the Japan parliament in January 2008. This showed that the national government recognized AQUA as a major international telemedical activity for Japan. Following these expressions of support, the Kyushu University Hospital determined to establish a formal telemedical center by March 2009. This will be the second university telemedical center in Japan, following that at the Asahikawa Medical College. However, this will be the first telemedical center to mainly work in the international arena. We believe that AQUA's steady efforts have made this possible and we appreciate all of those who have supported our activity in the Asia-Pacific area. AQUA will continue its activities under its new name of “Asian Telemedical Development Center (tentative)’.

On the other hand, the activities of APAN-medical have stabilized. New relationships have been created with North America and Europe. Participants in the twice-yearly APAN-medical meeting, are increasing year by year. The contents of the meetings are becoming more sophisticated and diversified because the medical field has real needs for such a system. As well, the engineer field has the potential realize the aims. Indeed, we are very pleased to have this collaboration.

Although AQUA participated in most of the events in APAN-medical, some recent events have been held without AQUA. This movement from a mono-central to a multi-central organization is a sign of the autonomous development of APAN-medical. This is the correct way for development to proceed and is what Dr. Shimizu and I have expected from the very beginning of the project.

We hope APAN-medical manages activities of international events as free and open as possible in the future. AQUA will always support APAN-medical and will pay efforts to connect Asia-Pacific countries and especially local area in Japan.

These turning points for AQUA and APAN-medical highlight the transition of the project from a trial stage to a practical stage. For the past four years I have written the epilogue for this annual report during the spring season. This year I feel everyone's wish for medical standardization in the Asia-Pacific region has begun to bud.

17th March, 2008
Naoki Nakashima MD, PhD
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Sachiyo Suita, MD, PhD
Superintendent of Kyushu University Hospital

Chairman and Professor
Masao Tanaka, MD, PhD
Department of Clinical Medicine, Faculty of Medical Sciences

Members

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Email: shimizu@surg1.med.kyushu-u.ac.jp

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URL: http://aqua.med.kyushu-u.ac.jp/