

Hospital Authority Convention 2016  
IHF Session  
Hong Kong Convention & Exhibition Centre  
Hong Kong  
2016.0



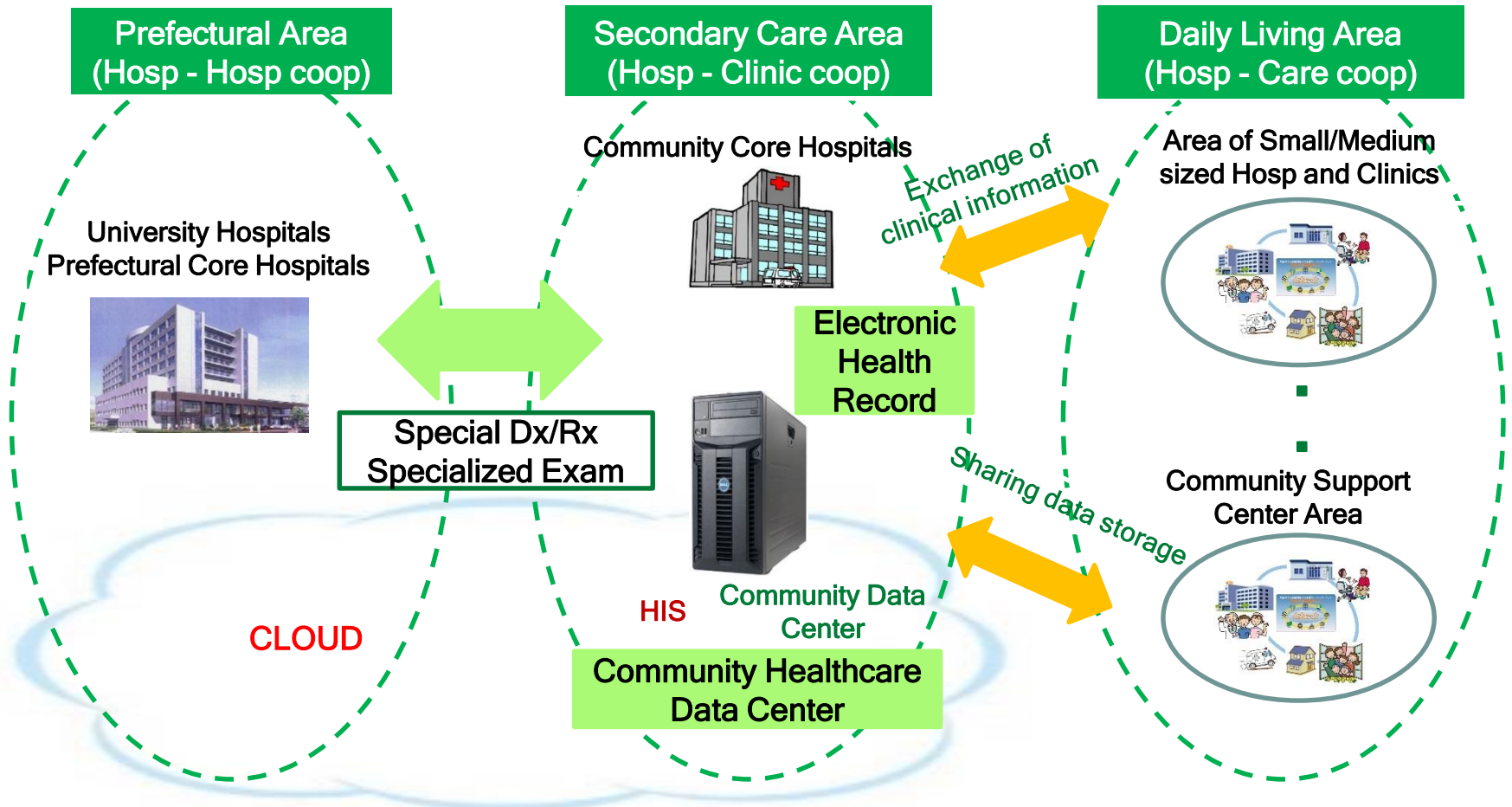
# E-Health and Healthcare in Japan

**Japan Hospital Association**  
**Tsuneo Sakai, MD, MS**

# Medical Care Provision System and Promotion of ICT in Healthcare

- An aging society with fewer children will affect social security and finance negatively
  - Reform for the establishment of a sustainable social security system
- Implementation of Social Security and Tax Number System (My Number System) : October 1, 2015
  - Introduction of the number system in healthcare
  - Digitalization and standardization of healthcare data
  - Promotion of the community healthcare information networks
  - Application of data in healthcare policy making
  - Enhancement of healthcare business infrastructures to utilize healthcare data

# Medical - Welfare Information Networks – Miyagi Model



# Cooperation of Community Healthcare – Telemedicine

Seirei Hamamatsu  
General Hospital



Affiliated  
Community Hospital



② Image transmission



④ Reporting the findings



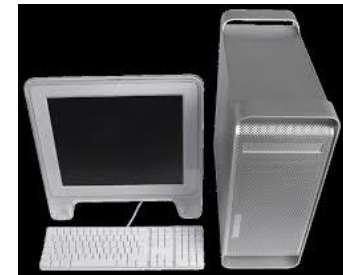
⑥ Emergency surgery  
as needed



③ Consulting  
Specialist



⑤ Patient transfer


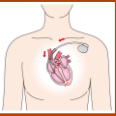













① Tele-  
consultation

# Current Status of Telemedicine in Japan

- Tele-radiology
- Tele-pathology
- Home medical care
  - Tele-care
  - Remote prenatal check-up
  - Emergency medicine: pre-hospital care, triage
- Monitoring
  - Cardiology: pacemaker, chronic heart failure, hypertension
  - Respiratory medicine: asthma, home oxygen therapy, sleep apnea
  - Monitoring of medication

# Telemedicine and Reimbursement System

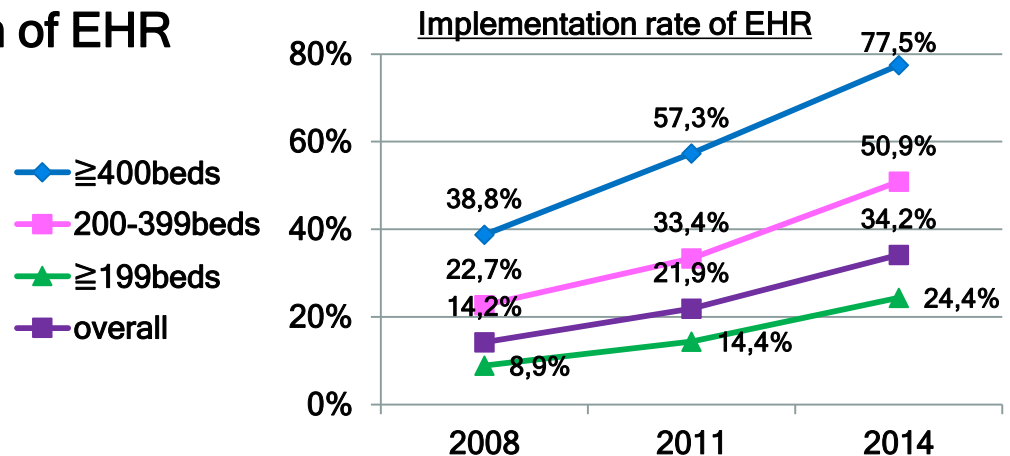
Approved	 <b>Asthma monitoring</b>	 <b>Pacemaker monitoring</b>	 <b>3-Channel ECG Holter</b> <b>Holter ECG Exam</b>		<div style="background-color: #FFD700; padding: 5px; text-align: center;">D, N to P</div> <div style="background-color: #800080; padding: 5px; text-align: center;">D to D</div> <div style="background-color: #90EE90; padding: 5px; text-align: center;">D to D to P</div> <div style="background-color: #008000; padding: 5px; text-align: center;">D to N, P</div>
	 <b>Remote Eye Exam</b>	 <b>Tele-radiology</b>		 <b>Tele-pathology</b>	
To be Approved	 <b>Emergency triage</b>	 <b>Tele-homecare</b>	 <b>Remote prenatal check-up</b>	 <b>Chr. HF care</b>	 <b>Community Healthcare Information Networks</b>
Under Trial	 <b>Home Oxygen therapy</b>	 <b>Monitoring medication</b>			

# Benefits of Telemedicine

- For physicians
  - Enhanced efficiency
  - Timely and appropriate medical care
  - Early diagnosis and treatment
  - Mutual trust with the patients and their families
- For patients
  - Early diagnosis and treatment
  - Improvement in patient satisfaction and Quality of Life
  - Contribution to clinical safety
  - Reduction of commuting burden
  - Greater access to healthcare
- For governments
  - Reduction of healthcare costs
  - Greater access to healthcare
  - Promotion of home healthcare

# Current Issues Surrounding Telemedicine

- Ambiguity of Article 20 of the Medical Practitioners' Act  
 “No medical practitioner shall provide medical care or issue a medical certificate or prescription without personally performing an examination, . . . . .”
- Uncertainty as to who can implement telemedicine
- Limitations of the current reimbursement system
- Limited clinical and socio-medical research
- Limited utilization of EHR





# Future Expectation of Telemedicine

- Telemedicine is suitable for health management
  - Continuous monitoring of a patient's condition
  - Consultation by medical specialists
  - Disease management, guidance and education for patients
- Innovation in healthcare IT
  - Medical application of 8K Super Hi-Vision (SHV)



Intraoperative photo  
of 8K endoscopy

## 8K

- $33 \times 10^6$  pixels
- equate to visual acuity of 4.27 Decimal
- Use in telemedicine
- Use in tele-education