Clinical Engineers: Japan

-The Importance of clinical engineers in hospitals-

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Japan association for clinical engineers (JACE)
International Exchange Committee
2014
Educational Sessions; Blood Purification Systems

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Clinical Engineers

Clinical engineers (CEs)
Established in 1987

Education
University (4yrs) or academy (3yrs)
Master course (2yrs), Doctor course (3yrs)

National license
Need to pass a national examination
Clinical Engineers

The number of Clinical engineers (CEs) 35,000

Work place

Operating room, Dialysis room, Cardiac catheterization room, Hyperbaric oxygenation room, ICU, HCU, NICU, Emergency room, and the hospital ward.
Business Operations

- Extracorporeal circulation
- Blood purification
- Hyperbaric oxygenation
- Maintenance
- Education
Safety management

• Earlier
The equipment was simple and rugged, so did not break down easily.

• Present day
Modern critical care medical equipment has numerous CPU boards and sensors, and more failure points.

• Key CE services
Increased special maintenance of medical equipment by CE is necessary.
The benefits of having Clinical Engineers

Example of mechanical ventilators

- Ventilators
- Minor Problems
- Failures

YAMAGATA UNIV. HOSPITAL

Clinical engineers

- are an essential profession for the safe operation of medical equipment.

- have decreased medical equipment failure which exposes patients to potentially harmful risks
International Exchange Committee

• Closer communication with other industrialized nations and participation in international conventions.
• Technological cooperation in the areas of clinical engineering and blood purification, transfer of clinical engineer systems to and exchange with China.
• Dissemination of clinical engineering mind-set and development of internationally-minded people through participation in JOCV, Japan Overseas Cooperation Volunteers Program and Senior Volunteers Program of JICA, Japan International Cooperation Agency.

The International Exchange Committee wants to support clinical engineers who want to spread their wings around the world, and is determined to further promote such cooperation.
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