International Activities
-Report from Japan-

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Japan Radiological Society (JRS)

- Established in 1930
- 8,827 members
- 6,115 Board certified Radiologists (69%)
- The main activities of the society
  1. to conduct scientific meetings in spring and autumn
  2. to publish a scientific journal in English (Japanese Journal of Radiology: JJR)
  3. to conduct the Japanese Board of Radiology
  4. to promote researches on radiological science
  5. to support activities for the protection against radiation hazards
  6. to collaborate with related societies or associations
Japan Radiology Congress (JRC)

- Joint Meeting of 4 Societies (in April)
  - Radiology (JRS), Radiological Technology, Medical Physics, Industries associated to Radiological Systems
- No. of Attendants: 22,000
- Held in Yokohama

Number of Multi-detector CTs in Japan

Number of Multi-detector CTs is around 8,000 in 2010

(Shin-Iryo)
Number of MR units in Japan

- Number of MR units is around 6,300 in 2011
- More than 300 of 3T

Number of CT/MR units per million population

Average 29
Number of CT/MR examinations per radiologist per year

- Japan: 6,130
- Average: 1,440

Number of PET scanners in Japan

- Dedicated PET: 134
- Hybrid PET: 14
- PET/CT: 371
- Total: 519 (2013)

Increasing by about 30-40 scanners / year
Number of radiologists vs. number of physicians

Medical Radiation Exposure by CT in Japan

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Max</th>
</tr>
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<tbody>
<tr>
<td>Brain CT</td>
<td>12mGy</td>
<td>150mGy</td>
</tr>
<tr>
<td>Chest CT</td>
<td>1.6mGy</td>
<td>128mGy</td>
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<tr>
<td>Abdomen/Pelvic CT</td>
<td>0.9mGy</td>
<td>40mGy</td>
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Survey in 2014 by Japan Radiological Technology Society
INTRODUCTION TO QIBA

Kevin O’Donnell
Sr. Mgr., R&D, Toshiba Medical Research Inst.
Member, QIBA Steering Cmte
Member, IHE International Board
Past Chair, DICOM Standards Cmte

Participants of 1st Workshop for QIBA in Japan
-Feb 12, 2015 in Osaka-

Total N=50

- PhD 40%
- MD 34%
- Technologists 18%
- Company 8%
- Other 0%
Discussion after the 1st Workshop in Osaka

The 2nd Workshop in Yokohama

製造業から見たQIBAの概要
~Quantitative Imaging Biomarkers Alliance~
The 2d Workshop in Yokohama

Special lecture about QIBA by Mr Ikeda (Toshiba Med)

Report of the 1st Workshop in Osaka by Yokohama City Univ

Yokohama City is the capital of Kanagawa Prefecture and, with a population of 3.6 million. Yokohama is a major commercial hub of the Greater Tokyo Area. It developed rapidly as Japan’s prominent port city following the end of Japan’s isolation in the late 19th century.
Clinical Trial Network of 15 hospitals (8000 beds) in Yokohama Area
(under YCU center for Novel and Exploratory Clinical Trials: Y-NEXT)

The plan of Y-Next

Data sets for the qualification of volumetric CT
as a quantitative imaging biomarker in lung cancer

A. J. Buckler, L. H. Schwartz, N. Petrick, M. McNitt-Gray, B. Zhao, C. Fenimore, A. P. Reeves, P. D. Moxley, and R. S. Avila

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3Center for Devices and Radiological Health, Food and Drug Administration, Silver Spring, MD, USA
4David Geffen School of Medicine at UCLA, Los Angeles, CA, USA
5National Institute of Standards and Technology, Gaithersburg, MD, USA
6Cornell University, Ithaca, NY, USA
7Merk Research Laboratories, West Point, PA, USA
8EndoPharm Pharma Imaging Group
9Kaware Inc., Clifton Park, NY, USA

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The special educational lecture by Prof Sullivan

QIBA related activity in JAPAN

The Stage of Enlightenment Activities

1. 1st workshop was held in Osaka organized by Dr. Iida
   - Feb 14, 2015
   - 50 attendants
   - Special lecture about QIBA by Mr Kevin O’Donnell

2. 2d workshop was held in Yokohama organized by Dept. of Radiology in YCU
   - Feb 27, 2015
   - 30 attendants
   - Special lecture about QIBA by Mr Ikeda (Toshiba Med)
   - QIBA activity for Yokohama Clinical Trial Network

3. Educational lecture by Prof Sullivan
   - at JRS Autumn Assembly in Morioka (Organized by Prof Ebara)
   - Oct, 2015
Motivation for QIBA

Established by RSNA (2008)

– Quantitative Imaging = Strategic Goal

Mission:

– Reduce Bias
– Improve Reproducibility
– Support Clinical Practice

Funding from NIBIB (NIH)

Many stakeholders

JRS totally agree with the concept/goal of QIBA
Thank you for your attention!