

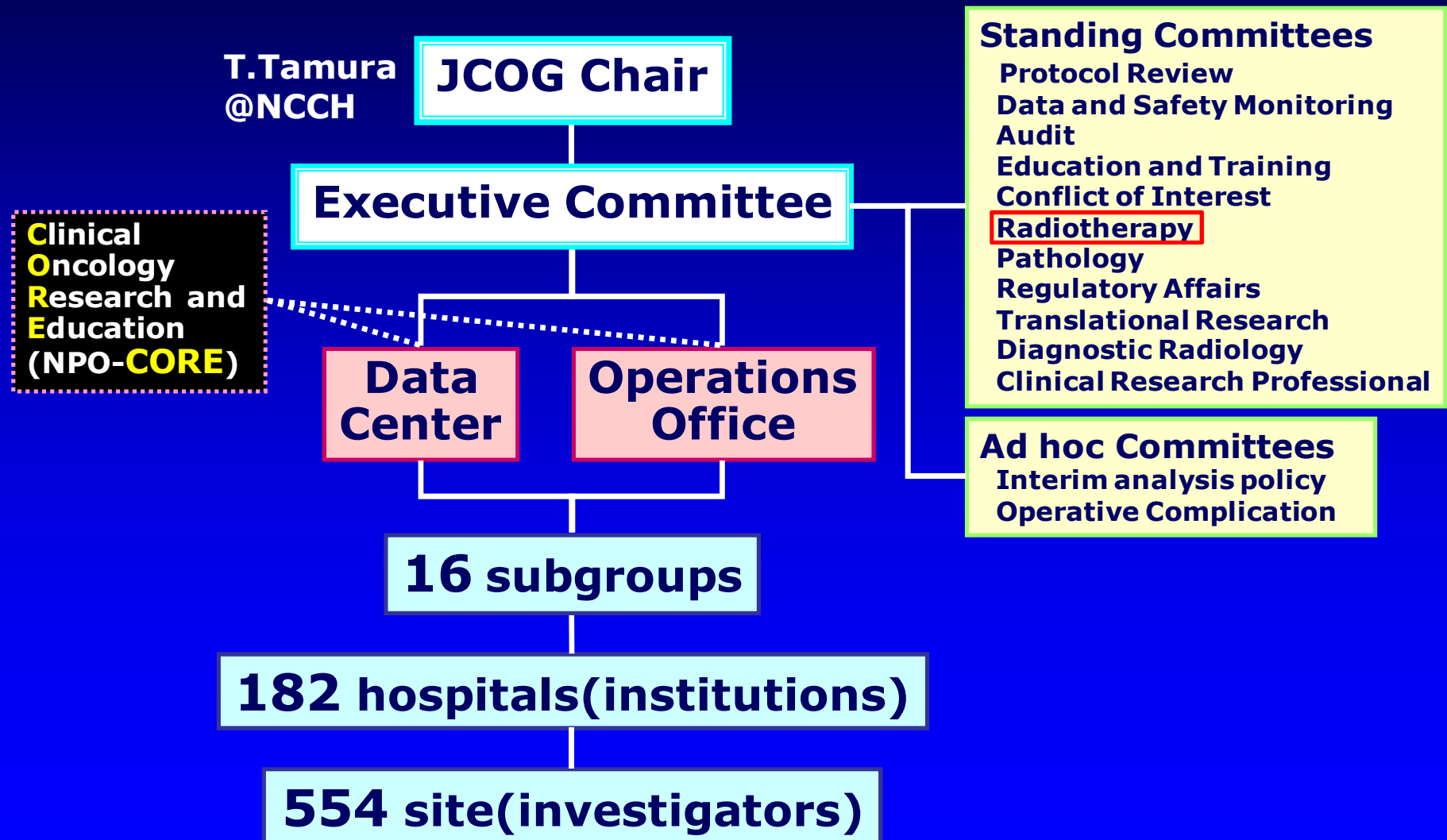
Current Projects and Visions

JCOG radiotherapy committee

Satoshi Ishikura, M.D., Ph.D.

Harmonisation Group Meeting
ESTRO31, 2012, Barcelona

Organizational Structure



16 Study Groups

- Lymphoma Study Group 1978 –
- Japan Esophageal Oncology Group 1978 –
- Lung Cancer Study Group 1982 –
- Gastric Cancer Surgical Study Group 1984 –
- Gastrointestinal Oncology Study Group 1985 –
 - > merged into Stomach Cancer Study Group 2011 –
- Breast Cancer Study Group 1985 –
- Lung Cancer Surgical Study Group 1986 –
- Gynecologic Cancer Study Group 1995 –
- Colorectal Cancer Study Group 2001 –
- Urologic Oncology Study Group 2001 –
- Bone and Soft Tissue Tumor Study Group 2002 –
- Radiation Therapy Study Group 2003 –
- Brain Tumor Study Group 2003 –
- Hepatobiliary and Pancreatic Oncology Group 2008 –
- Gastrointestinal Endoscopy Study Group 2011 –
- Head and Neck Cancer Study Group 2011 –
- Dermatologic Oncology Group 2012 –

Current Projects in QART

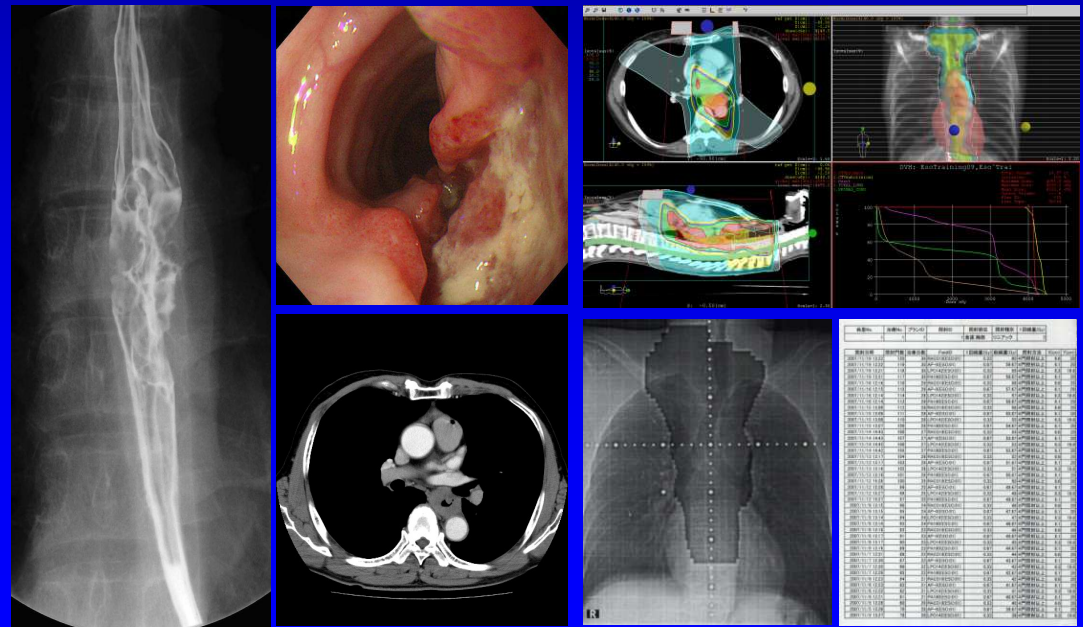
- other than RTSG trials

A Randomized Phase II/III Study of CRT with Low Dose PF versus CRT with Standard Dose PF for Locally Advanced Unresectable Esophageal Cancer in the Thorax.
(JCOG0303)

Individual Case Review

- Initial review (*Not* Rapid review)
- Final review

- Diagnostic images
barium swallow,
endoscopy, chest CT
- Treatment
plannings
- Verification films
- Treatment charts



Current Projects in QART

- RTSG trials (SBRT, IMRT)

JCOG 0403

A PHASE II STUDY OF STEREOTACTIC BODY RADIATION THERAPY IN PATIENTS WITH T1N0M0 NON-SMALL CELL LUNG CANCER

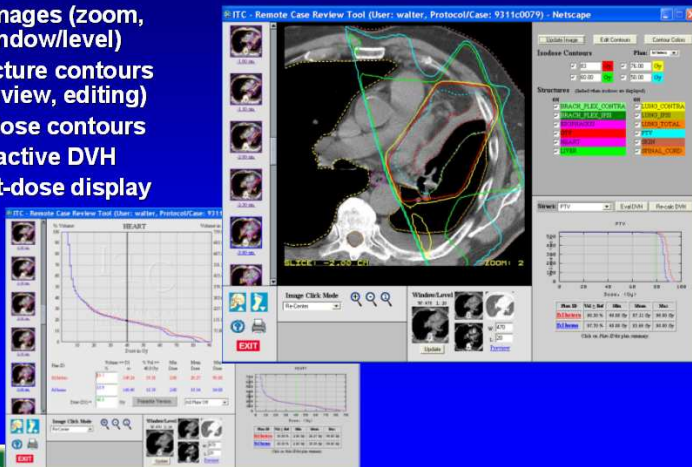
✓ Quality Assurance

-credentialing process

facility questionnaire, phantom dosimetry
dry run for treatment planning and QA review

Remote Review Tool

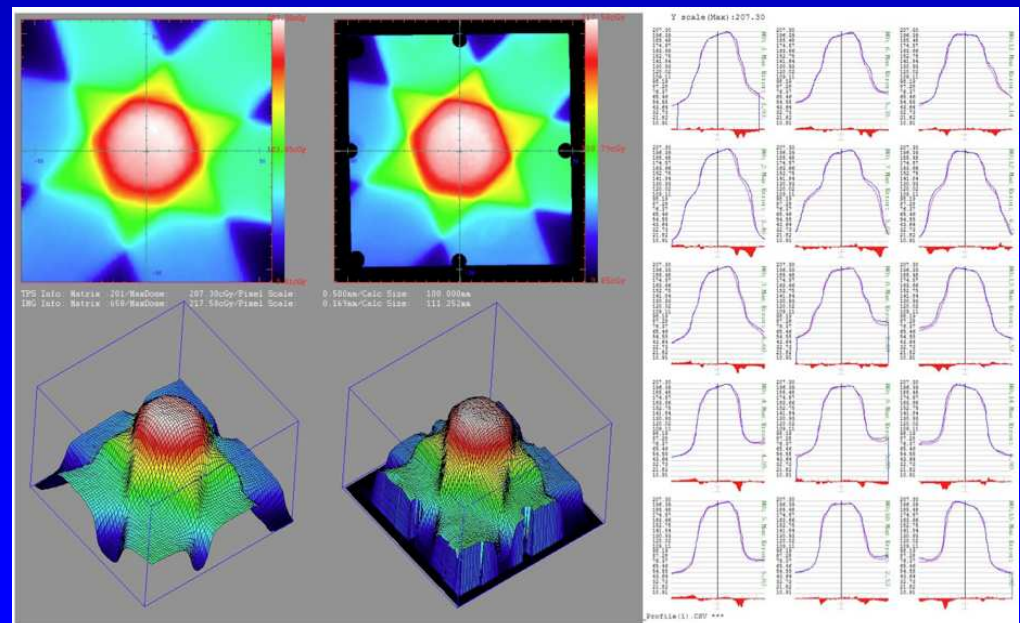
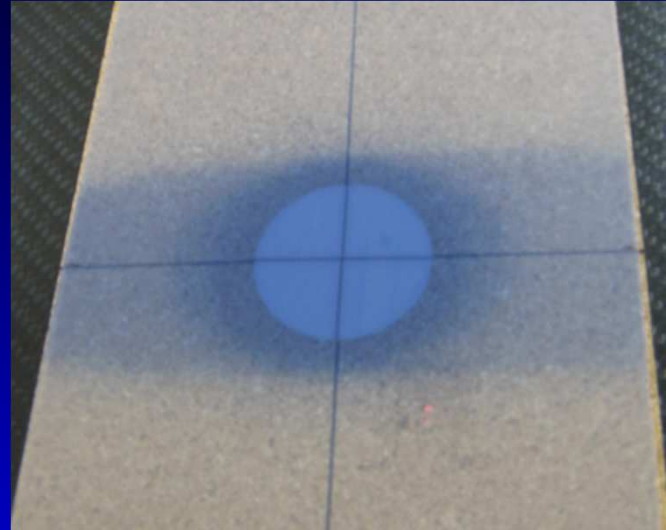
CT Images (zoom,
window/level)
Structure contours
(review, editing)
Iso-dose contours
Interactive DVH
Point-dose display



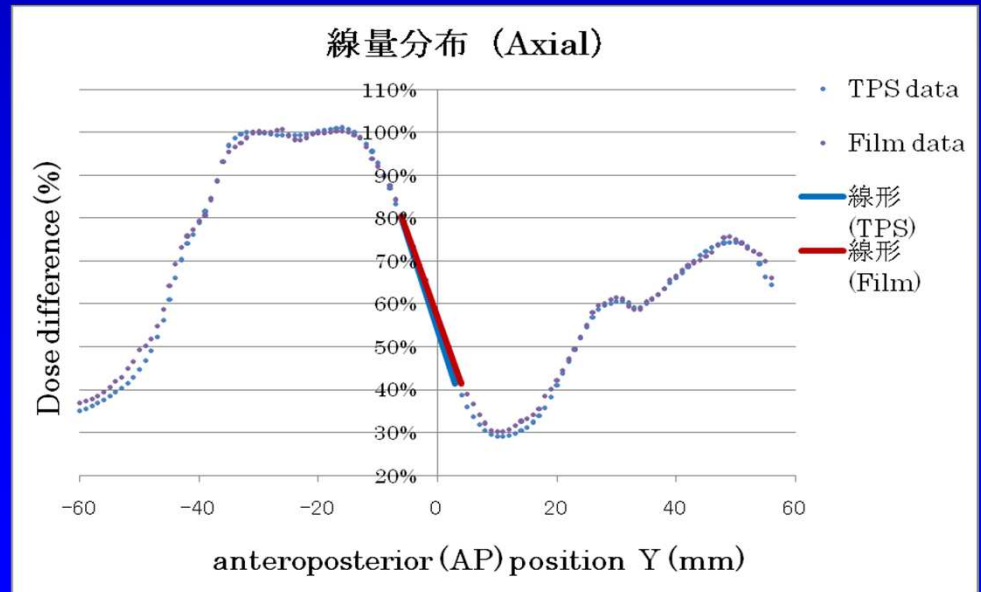
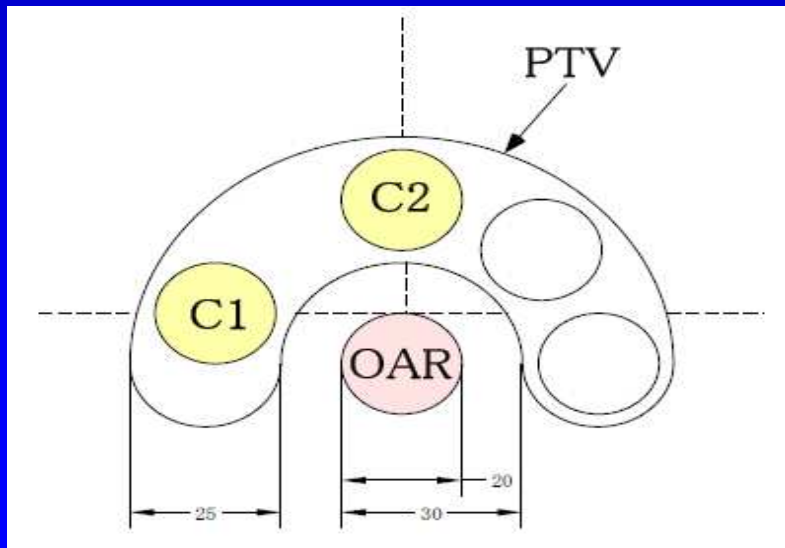
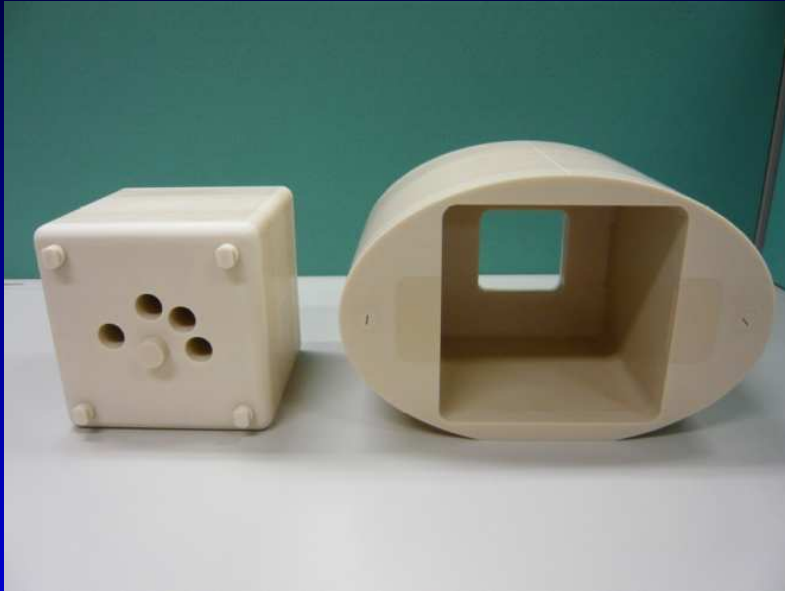
-individual case review

RTQA data of all patients are
submitted to the ITC/ATC and
reviewed by investigators

Credentialing in SBRT trials



Credentialing in IMRT trials



Current Projects in QART

- Summary -

- Facility Questionnaire
- External Reference Dosimetry Audit (not mandatory)
- Complex Dosimetry Check (SBRT, IMRT trials only)
- Dummy Run (SBRT, IMRT trials only)
- Individual Case review
(all cases, retrospective, 23 trials/approx. 3000 reviews)

Future Visions in QART

Streamlining of ICR

- **Data handling**
QA center or investigator?
- **DICOM-RT viewer**
VODCA, MIM, or CERR?
- **Cost issues**

Credentialing in Proton trials

- **External Reference Dosimetry Audit**
mailed dosimetry or on site?
- **Complex Dosimetry Check**
acceptable limit?
- **Dummy Run, Individual Case Review**
DICOM-RT capability?