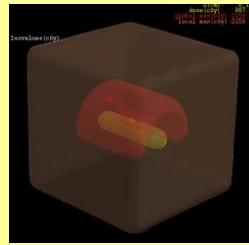
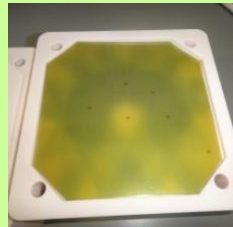
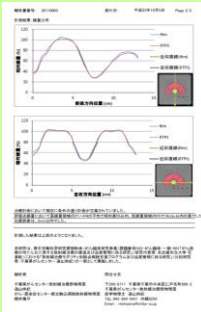


# Postal audit for IMRT credentialing in JCOG

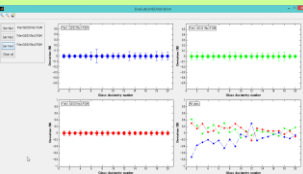
## JCOG RTSG/MP WG



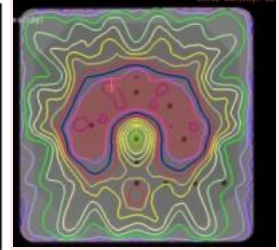
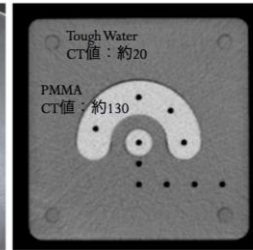
1. Development of IMRT phantom
2. Glass dosimetry: reliable, small size, high sensitivity.
3. Assessment of dose calculation accuracy in PTV and OAR.



1. Analysis and reporting.
2. Average 2 weeks until submitting report.



## Participating institute



CT scan and planning according to a dedicated protocol



Beam delivery

## 【Merits】

Reduced costs, and higher throughput

# Credentialing Activity of JCOG1408

A randomized phase III trial of comparing two dose-fractionations SBRT for medically inoperable stage IA non-small cell lung cancer or small lung lesions clinically diagnosed as primary lung cancer (PTV D95 42 Gy vs 55 Gy)

## 1. Facility Questionnaires

- Linac, RTPS (Heterogeneity Correction), Planning CT, IGRT, etc.

## 2. Dummy Run

- Planning instructions, CT image sets, and DICOM RT Structure of 2 cases were provided to each institution.

## 3. Verification of Small Field Dosimetry

- Specified format of Excel sheet was provided to each institution
- Calculate cGy/MU @5cm and 10 cm depth in water
- Tolerance: Mean among institutions for each type of linac  $\pm 3\%$

## 4. IGRT Verification by Mailing Audit

- Original IGRT phantom which contains RTQA2 films is mailed to institutions.
- Tolerance: Translational errors  $\pm 1\text{mm}$ , rotational errors  $\pm 1^\circ$