# A phase II study of stereotactic body radiation therapy in patients with T1N0M0 non-small cell lung cancer (JCOG-0403)

Study chair
Masahiro Hiraoka
Kyoto University

Study coordinator
Yasushi Nagata
Kyoto University

### Purpose

➤ To evaluate the safety and efficacy of stereotactic body radiation therapy (SBRT) for T1N0M0 NSCLC

- ? SBRT as a standard care in medically inoperable patients
- ? SBRT as a treatment option in operable patients

## Eligibility criteria

- Pathologically proven NSCLC.
- Stage IA
- Medically inoperable or operable (who prefer nonsurgical treatment)
- > PS 0-2
- $\triangleright$  PaO<sub>2</sub>  $\geq$  60 torr
- >  $FEV_{1.0} \ge 700 \text{ m}$
- Written informed consent

#### Stereotactic irradiation

- > 48 Gy/4 fx over 4-8 days
- Prescription point is the isocenter
- Dose constraints for organs at risk are defined
- Lung heterogeneity correction will be used in MU calculation
- D<sub>95</sub>, Homogeneity Index (HI), and Conformity Index (CI) will be recorded

## Endpoint and sample size

- Primary endpoint: 3-year overall survival
- Sample size: 165
  - -Operable, 65; Inoperable, 100
  - -Accrual: 3 years

## Participating institutions

- Hokkaido University
- Tohoku University
- Cancer Institute Hospital
- Metropolitan Komagome Hospital
- Keio University
- Hiroshima University
- Kitazato University
- Yamanashi University
- Sapporo Medical College
- Tokyo University
- Nippon University
- Tokyo Women's Medical University
- Tenri Yorozu Hospital
- Institute of Biomedical Research and Innovation
- Kyushu University
- Kyoto University