

Spiral computed tomography scanning for the early detection of lung cancer

Submission date 29/05/2007	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 19/07/2007	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 27/07/2021	Condition category Cancer	<input type="checkbox"/> Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Protocol serial number
N/A

Study information

Scientific Title
Spiral computed tomography scanning for the early detection of lung cancer

Acronym

LUSI

Study objectives

Lung cancer screening with Multislice Spiral Computed Tomography (MSCT) reduces the mortality from lung cancer by at least 20%.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Local Ethics Committee: Alte Glockengiesserei 11/1, 69115 Heidelberg (Germany), approved on 7 March 2007 (ref: 073/2001)

Study design

Randomized controlled trial with an MSCT screening arm and an usual care control arm.

Primary study design

Interventional

Study type(s)

Diagnostic

Health condition(s) or problem(s) studied

Lung cancer

Interventions

Intervention arm:

1. MSCT-scanning for the early detection of lung cancer immediately at time of randomisation and 4 times annually
2. Further assessment of suspicious nodules according to an internationally agreed algorithm
3. Counselling aimed at smoking cessation at time of randomisation

Control arm: Counselling aimed at smoking cessation at time of randomisation.

Both arms will receive annual follow-up by mailed questionnaires for assessment of Disease outcome for further 5 years after the 5 screening rounds of the intervention group. At time of randomization 20 ml blood sample will be taken in both intervention and control arms for concomitant biomarker research.

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

Mortality from lung cancer at 5 and 10 years.

Key secondary outcome(s)

No secondary outcome measures

Completion date

01/02/2012

Eligibility

Key inclusion criteria

1. Age 50-69
2. Smoking history of at least 40 pack-years
3. If under the age of 60, current smokers or ceased smoking within the last five years
4. Able to complete a self-administered epidemiology questionnaire providing details on smoking history, family history of lung and other cancers (if any), occupational history and previous illnesses
5. Agree to be randomised to screening with annual low dose spiral CT plus smoking cessation counseling or only smoking cessation counseling
6. Have signed an informed consent form

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Total final enrolment

4052

Key exclusion criteria

1. History of lung cancer or other malignancy (except basal cell carcinoma)
2. History of a disease that would preclude surgical as well as medical treatment of lung cancer
3. Other serious illness that would reduce life expectancy to less than 10 years

Date of first enrolment

01/08/2007

Date of final enrolment

01/02/2012

Locations

Countries of recruitment

Germany

Study participating centre
German cancer research center
Heidelberg
Germany
69120

Sponsor information

Organisation
German Cancer Research Centre (Deutsches Krebsforschungszentrum)

ROR
<https://ror.org/04cdg9t98>

Funder(s)

Funder type
Not defined

Funder Name
German Research Foundation (ref: BE2486/2-1)

Funder Name
Dietmar Hopp Foundation (Dietmar-Hopp-Stiftung) (ref: DL-26.1.07) (Germany)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		01/03/2021	27/07/2021	Yes	No