



Belgian Cancer Registry

Innovative RT - Breast - APBI and Boost

The variables with REQ in superscript are required.

The variables with a are single-select variables; only one answer can be selected.

The variables with a are multi-select variables; multiple answers can be selected.



Administrative patient data

Hospital^{REQ.}:

Health insurance institution^{REQ.}:

NISS/INSZ number^{REQ.}:

Last name^{REQ.}: First name^{REQ.}:

Postal code^{REQ.}: City^{REQ.}:

Country^{REQ.}: Health insurance number:

Date of birth^{REQ.}: / / (dd/mm/yyyy) Sex^{REQ.}:

- **I confirm that this registration meets the inclusion criteria of the project ‘2011-26 HTA_Innovative radiotherapy’ and is in accordance with the convention for financing of the project ‘Innovative techniques in radiotherapy’.**^{REQ}
- An overview of the techniques and cancer indications can be found in table 1 of the KCE Report 198C**
- (https://kce.fgov.be/sites/default/files/page_documents/KCE_198C_Innovativeradiotherapy.pdf).**
- The inclusion and exclusion criteria for the registration can be found in attachment 1 of the convention for financing of the project ‘Innovative techniques in radiotherapy’.**

1. Diagnostics

A. Details primary tumor

Incidence date^{REQ.}: / / (dd/mm/yyyy)

- Basis for diagnosis^{REQ.}:
- 1 - Autopsy
 - 2 - Histology of primary tumor
 - 3 - Histology metastasis
 - 4 - Cytology/hematology
 - 5 - Technical (f.ex. CT scan, endoscopy, ...)
 - 6 - Clinical
 - 7 - Tumor marker (f.ex. PSA, HCG, AFP, Ig, ...)
 - Unknown

- WHO score at diagnosis ^{REQ.}: 0 - Asymptomatic, normal activity
 1 - Symptomatic, but ambulant
 2 - Symptomatic, bedbound < 50% day
 3 - Symptomatic, bedbound > 50% day
 4 - Completely dependent, 100% bedbound
 Unknown

- Primary tumor localization ^{REQ.}: C50.0 Nipple
 C50.1 Central portion of the breast
 C50.2 Upper-inner quadrant of breast
 C50.3 Lower-inner quadrant of breast
 C50.4 Upper-outer quadrant of breast
 C50.5 Lower-outer quadrant of breast
 C50.6 Axillary tail of breast
 C50.8 Overlapping lesion of breast
 C50.9 Breast, NOS

- Laterality ^{REQ.}: Left
 Right

- Histological diagnosis ^{REQ.}: 8211/3 - Tubular carcinoma
 8480/3 - Mucinous/colloid carcinoma
 8500/3 - Invasive ductal carcinoma, NOS
 8510/3 - Medullary carcinoma
 8520/3 - Invasive lobular carcinoma

- Tumor differentiation grade ^{REQ.}: 1 - Well differentiated
 2 - Moderately differentiated
 3 - Poorly differentiated
 4 - Undifferentiated
 Unknown

Clinical stage (cTNM): cT: cN: cM:

Pathological stage (pTNM) ^{REQ.}: pT: pN: pM:

BRCA1/2 mutation status^{REQ} : Present
 Not present
 Test performed but result could not be determined
 Unknown

Breast MRI performed^{REQ}? Yes
 No

Breast implants present in the irradiated breast^{REQ}? Yes
 No

B. Radiotherapy details

Centre where the RT was performed^{REQ} :

Centre that referred the patient to the RT^{REQ} :

Number of fractions delivered^{REQ} :

Total dose delivered^{REQ} : Gy

Start date of RT^{REQ} : /..... / (dd/mm/yyyy)

End date of RT^{REQ} : /.... / (dd/mm/yyyy)

2. Treatment specifications

Type of treatment and RT technique^{REQ}:

- 1. APBI - Low risk - IORT (electrons) (Complete sections: 3A, 5A, 5D)
- 2. APBI - Low risk - IORT (photons) (Intrabeam, Other) (Complete sections: 3B, 4, 5A, 5D)
- 3. APBI - Low risk - Brachytherapy - Interstitial Brachytherapy (Complete sections: 3C, 5B)
- 4. APBI - Low risk - Brachytherapy - Intracavitary Volume Implants (Complete sections: 3D, 5B)
- 5. APBI - Low risk - External Radiation Therapy (Complete sections: 3E, 4, 5C, 5D)
- 6. APBI - Intermediate risk - IORT (electrons) (Complete sections: 3A, 4, 5A, 5D)
- 7. APBI - Intermediate risk - IORT (photons) (Intrabeam, Other) (Complete sections: 3B, 4, 5A, 5D)
- 8. APBI - Intermediate risk - Brachytherapy - Interstitial Brachytherapy (Complete sections: 3C, 4, 5B)
- 9. APBI - Intermediate risk - Brachytherapy - Intracavitary Volume Implants (Complete sections: 3D, 4, 5B)
- 10. Boost - Low risk - IORT (electrons) (Complete section: 3A, 3F, 5A, 5D)
- 11. Boost - Low risk - IORT (photons) (Intrabeam, Other) (Complete section: 3B, 3F, 4, 5A, 5D)
- 12. Boost - Intermediate risk - IORT (electrons) (Complete section: 3A, 3F, 5A, 5D)
- 13. Boost - Intermediate risk - IORT (photons) (Intrabeam, Other) (Complete section: 3B, 3F, 4, 5A, 5D)

3. Applied technique

A. IORT - Electrons

Type of equipment (electrons)^{REQ}:

- Mobetron
- Novac7
- LIAC
- Other

Specify^{REQ}:

Electron energy^{REQ}: MeV

B. IORT - Photons

Type of equipment (photons)^{REQ}:

- Intrabeam
- Other

Specify^{REQ}:

Photon energy^{REQ}: kV

C. Brachytherapy - Interstitial Brachytherapy

Dose rate^{REQ}: LDR
 PDR
 HDR

D. Brachytherapy - Intracavitary Volume Implants

Radiotherapy system – Intracavitary Volume Implants^{REQ}: MammoSite Radiation Therapy System
 Contura
 ClearPath
 SAVI
 Axxent

E. External Radiation Therapy

Radiotherapy system - External Radiation Therapy^{REQ}: 3D-CRT
 IMRT
 Rotational IMRT
 Rotational 3D
 Other
Specify^{REQ}:

F. Boost

Immediate continuation of whole breast RT (no interruption = within 1 month after boost date)^{REQ?}
 Yes
 No

4. Clinical trial details

Reference number of the ethics committee approval^{REQ}:

Reference number of the public clinical trial registry^{REQ}:

5. Technical aspects

A. Patient specific technical aspects - IORT

- Thoracic wall protection^{REQ}: Aluminium-lead shielding disk
 Surgical blankets including Tungsten
 None
 Other
Specify^{REQ}:

B. Patient specific technical aspects - Brachytherapy

- Image guidance for treatment planning^{REQ}: Mammography - Guided
 Template - Guided
 CT - Guided
 MRI - Guided
 Ultrasound - Guided

C. Technical aspects of tumor localization - External Radiation Therapy

- Patient position^{REQ}: Prone
 Supine
 Other
Specify^{REQ}:

- Personalized immobilization^{REQ?} Yes
 No

- Identification of tumor motion^{REQ}: kV fluoroscopy
 4D-CT scan
 Maximum inspiration/expiration breath hold CT
 None
 Other
Specify^{REQ}:

Tumor motion compensation strategy^{REQ} : Abdominal compression
 Breath hold
 Gating
 Tracking
 None
 Other
Specify^{REQ}:

Image fusion for target delineation^{REQ}? Yes
 No

On-treatment imaging^{REQ} : kV fluoroscopy
 EPID
 CBCT
 MVCT
 Exactrac
 Other
Specify^{REQ}:

Markers^{REQ}: Implanted markers
 External skin sensors
 No markers

D. Dose specific aspects

Dose calculation algorithm^{REQ} : Pencil beam algorithm
 Convolution superposition algorithm: Anisotropic Analytic Algorithm – AAA
 Convolution superposition algorithm: Collapsed Cone Convolution – CCC
 Monte Carlo (f.ex. Voxel Monte Carlo – VMC+++)
 Other
Specify^{REQ}:

Patient specific Quality Assurance (QA) prior to start^{REQ}: 1D (point) verification
 2D verification
 3D verification
 4D verification
 None

6. Nomenclature

Nomenclature number(s) used ^{REQ}: 444172 or 444183
 444253 or 444264
 444312 or 444323
 444393 or 444404