

BREAST PHOTOGRAPHIC ASSESSMENT FORM

Study Number

RQ□□□□□-□

Patient Initials

□□□□

Date of Birth (dd/mm/yyyy)

□□/□□/□□□□

Date Completed (dd/mm/yyyy)

□□/□□/□□□□

Name + Signature of Person completing the CRF

Time Point

☐ Pre-radiotherapy (RT)

☐ 2 years after RT start

Photos of the breast excluding the head:

Anterior view with hands on the hips

☐ yes, photo taken

☐ No photo taken
if not, give reason

Anterior view with hands above the head

☐ yes, photo taken

☐ No photo taken
if not, give reason

Lateral view with hands above the head

☐ yes, photo taken

☐ No photo taken
if not, give reason

Distance between lens and breast

□□□ cm

GUIDELINES FOR PHOTOGRAPHIC ASSESSMENT (SEE ALSO RQ12-PHOTO SOP)

PURPOSE

To provide guidance for producing clinical images of breast cancer patients in the REQUIRE study.

Patients must consent to the photographic assessments on the REQUIRE consent form before any photographs are taken.

The photographs must be taken under standardized conditions, following the guidelines set out below, to ensure comparability of the serial photos taken at baseline and after two years and to reduce inter-site variation.

BCCT.CORE IMAGE ANALYSIS

REQUIRE recommends the use of free software (BCCT.core) to objectively assess change in breast appearance. Post-surgical baseline photographs will be compared with post-radiotherapy photographs at year 2 to assess factors considered to have an impact on the overall cosmetic result e.g. breast asymmetry, skin colour changes due to the radiotherapy and surgical scar visibility (Keshtgar et al. 2013 Breast Cancer Res Treat, Cardoso et al. 2007 Breast).

TAKING THE PHOTOGRAPHS

It is important that the photographs are taken according to the guidelines below so that these assessments can be made.

- Digital photographic assessments after breast conserving surgery will be taken **at baseline and after 2 years**
- Camera specifications need to be kept **constant** throughout duration of study to ensure comparability of serial photos.
- **Mark the patient's skin** at the suprasternal notch and again at the midline 25 cm below the first mark (required for BCCT.core image analysis).
- **Two anterior views** of the chest will be taken, one with hands on the hips and the other with hands raised as far as possible above the head.
- **One lateral view** of the chest with hands above the head is also required.
- All photographs **must exclude the head**.
- There should be **adequate lighting** with no shadow on the patient or on the background.
- The **background** should be **unicoloured**, e.g. grey.
- Distance between lens and patient should be about **1 m**.
- Lens axis on level of the breast.
- **Digital camera** (with fixed lens of 100 or 105 mm focal length, if available)
- Photographs should be uploaded onto the REQUIRE database for central storage.

STORAGE OF PHOTOS

- Save as JPEG format
- 300 dpi (image width of 15 cm)
- Working space – Adobe RGC (1998) or professional equivalent
- **DO NOT** alter the image
- Assign a file name as follows: REQUIRE ID number and the **date** (dd-mmm-yy) the photo was taken
- Please state the **position** of the patient when the photo is taken: **UP** for raised hands, **HIP** for hands positioned at the hips, and **LAT** for lateral view.
- The last letter or number should represent the time point, e.g. B for baseline and 2 for year 2
e.g. RQ09999-9_05Jan14_UP_B; RQ09999-9_05Jan16_HIP_2,
RQ09999-9_05Jan16_LAT_2