

# IMRT Verification Head/Neck Phantom



*Cylindric sliced RW3 phantom for verification of stereotactic IMRT beams by radiographic films*

## Features

- ▶ Enables the user to verify stereotactic treatment plans
- ▶ Made of sliced RW3 water-equivalent material in cylindric shape to simulate a human head and neck
- ▶ Accommodates radiographic films and an ion chamber in the phantom axis
- ▶ Can be attached to the stereotactic system and the couch

The IMRT head/neck phantom<sup>1</sup> model T40015 is a 20 cm high cylinder composed of 1 cm thick plates of water-equivalent RW3 material. The cylinder with a diameter of 20 cm is supplied with a cover, decreasing to zero in cranial direction. Single packed films can be placed between the plates, which are aligned and fixed by means of acrylic rods on two sides of the cylinder. Five holes in the plates make it possible to mark a coordinate system on the films using a needle. Ionization chamber data can be taken using a hole along the axis of the cylinder, where a 0.125 cm<sup>3</sup> or a 0.3 cm<sup>3</sup> semiflex ionization chamber can be inserted.

The phantom can be attached to the stereotactic system and the couch by a special holding device.

<sup>1</sup> The phantom was designed by Bernhard Rhein from the German Cancer Research Center DKFZ Heidelberg, Germany.

## Ordering Information

T40015 IMRT head/neck phantom

T40015.1.010 IMRT phantom holder

- ▶ Semiflex Ionization Chambers *page 16*