

Ru-106 Eye Applicators

Beta Radiation for Eye Tumour Treatment

Ru-106 Eye Applicators

Ophthalmic plaques with excellent safety profile and proven efficacy.



Well established treatment of uveal melanoma and retinoblastoma which preserves the eye.

First Choice Treatment

For most ophthalmic oncologists, first line treatment is plaque radiotherapy whenever applicable, as this is technically straightforward and very effective. The Ru-106 Eye Applicator just has to be sterilised before use, it requires no assembly. Due to the long half-life of 373.6 days, Ru-106 Eye Applicators can be used many times over a one year period.

Ergonomic Design

For more than 30 years, ophthalmologists have favoured Ru-106 eye applicators due to their superior design. With only 1 mm thickness they allow very comfortable handling. The applicators are available in 16 different types, to provide a match to the individual tumour size and location. They are spherically shaped, with a radius of 12 to 14 mm, and have special eyelets to be sutured to the sclera.

Beneficial Beta Radiation

As the beta radiation emitted by Ru-106/Rh-106 has a limited range, there is an advantageous steep dose fall-off. Hence tumours with a height of up to 5 mm can be treated with a high dose, while sparing sensitive structures like the optic disc or fovea.

Quality of Life

Conservation of central vision is the ideal goal of Ru-106 Eye Applicator brachytherapy. If this is not possible, conservation of peripheral vision or a cosmetically satisfactory eye can be strived for – depending on the location of the tumour.

Source Strength and NIST Traceable Dosimetry

All plaques come with an extensive individual calibration certificate. The source strength is stated as reference dose rate at the axis in 2 mm distance from the applicator surface. Its absolute calibration is traceable to the National Institute of Standards and Technology, USA (NIST). For production reasons, the actual value at the date of shipment can deviate from the reference dose rate (80 mGy/min) in the range of - 10 %/+ 60 %. To apply for a handling licence, users should refer to the user manual and quote the maximum activity.

Accessories

- Reusable Acrylic or Silver Dummies help to optimise the positioning of the applicators. They are available for all types of Ru-106 Eye Applicators.
- The dedicated Safety and Sterilisation Container supports proper handling.
- The diaphanoscope, a fibre optic light source, illuminates the eyeball and makes the tumour visible as a dark spot or shade on the eyeball, supporting the proper positioning of the plaque above the tumour.

Quality Made in Germany

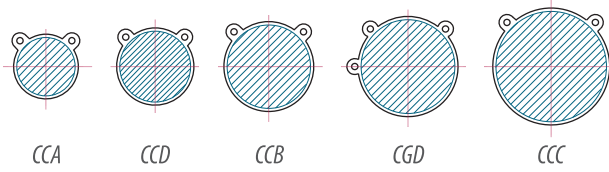
Ru-106 Eye Applicators are supplied all over the world by Eckert & Ziegler BEBIG only. Every single applicator is produced, tested and certified in Berlin, Germany, according to high quality standards. It goes without saying that Eckert & Ziegler BEBIG also accepts the return of used applicators.

Ru-106 Eye Applicators

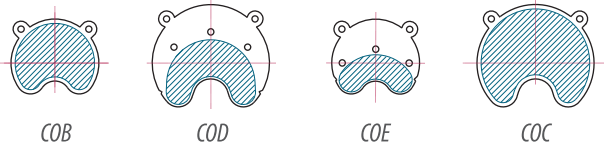
Retinoblastoma



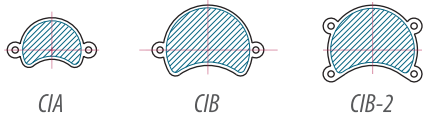
Peripheral uveal/choroidal melanoma



Tumours close to the optical nerve



Ciliary body melanomas or melanomas close to the iris



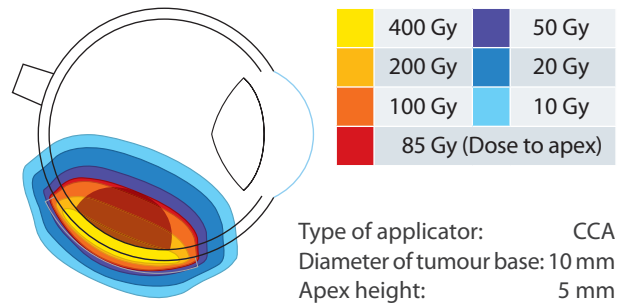
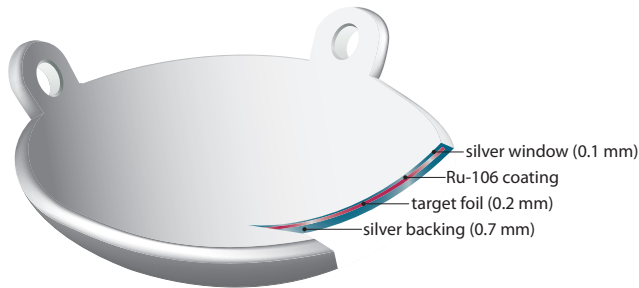
16 types suggested for different tumour sites and sizes

Type	Diam. in mm	Spheric radius in mm	Order code	Related acrylic dummy	Related silver dummy
CCZ	11.6	12	Ru6.A01	ACD.A21	AGD.A21
CCY	11.6	12	Ru6.A02	ACD.A22	AGD.A22
CCX	11.6	12	Ru6.A03	ACD.A23	AGD.A23
CXS	11.6 ^a	12	Ru6.A033	ACD.A23	AGD.A23
CCA	15.3	12	Ru6.A04	ACD.A24	AGD.A24
CCD	17.9	12	Ru6.A05	ACD.A25	AGD.A25
CCB	20.2	12	Ru6.A06	ACD.A26	AGD.A26
CGD	22.3	13	Ru6.A07	ACD.A27	AGD.A27
CCC	24.8	13	Ru6.A08	ACD.A28	AGD.A28
COB	19.8	12	Ru6.A09	ACD.A29	AGD.A29
COD	25.4	14	Ru6.A10	ACD.A30	AGD.A30
COE	19.8	12	Ru6.A11	ACD.A31	AGD.A31
COC	25.4	14	Ru6.A12	ACD.A32	AGD.A32
CIA	15.3	12	Ru6.A13	ACD.A33	AGD.A33
CIB	20.2	12	Ru6.A14	ACD.A34	AGD.A34
CIB-2	20.2	12	Ru6.A15	ACD.A35	AGD.A35

^a Active diameter for CXS only 8 mm

Unique Plaque Design

The core of the Ru-106 Eye Applicator is a foil coated with Ru-106/Rh-106. This core is safely encapsulated within pure silver sheets. The silver backing acts as radiation shield and absorbs approximately 95 % of the beta radiation.



High dose at the base of the tumour while sparing the organs at risk

Safety and Sterilisation Container

This specialised container combines an aluminium insert and an outer stainless steel shield for steam sterilisation and the transport of eye plaques within the clinic. Validated sterilisation parameters are: Temperature 134 °C, pressure 3 bar, time 5 min. The holding time can be extended up to 30 min.



Safety and Sterilisation Container BEH.201

The mentioned products are not available in all markets. Please contact your local Eckert & Ziegler BEBIG representative for more information.

Corporate Head Office:

**Eckert & Ziegler
BEBIG s.a.**
Rue Jules Bordet
Zone Industrielle C
7180 Senefte
Belgium

Telephone +32 64 520 811
Telefax +32 64 520 801
info@bebig.eu

Manufacturer:

**Eckert & Ziegler
BEBIG GmbH**
Robert-Rössle-Str. 10

13125 Berlin
Germany

Telephone +49 30 94 10 84 130
Telefax +49 30 94 10 84 112
info@bebig.eu

Regional Sales, Marketing and Service:

**Europe, Middle East, Africa,
Latin America, Asia Pacific**

**Eckert & Ziegler
BEBIG s.a.**
Rue Jules Bordet
Zone Industrielle C
7180 Senefte
Belgium

Telephone +32 64 520 811
Telefax +32 64 520 801
info@bebig.eu

North America

**Eckert & Ziegler
BEBIG, Inc.**
115 Hurley Road
Building 3A
Oxford, CT 06478
USA

Telephone +1 203 262 0571
Telefax +1 203 262 8968
info@bebig.com

www.bebig.eu
www.bebig.com