

P. D. HINDUJA HOSPITAL
& MEDICAL RESEARCH CENTRE

The Brain Surgery System without Knife

— INTRODUCING —

Leksell Gamma Knife® Perfexion™



First and only
in Western India

What is Gamma Knife Surgery?

It is an alternate treatment with best accuracy for:

- 1) Traditional brain surgery and
- 2) Whole brain radiation therapy for the treatment of complex, difficult brain conditions.

Gamma Knife is a non-invasive, stereotactic radiosurgery instrument that is incision-free, scalpel-free and uses accurately focused radiation beams without harming the surrounding unaffected healthy tissues, for the control of:

- 1) Benign and Malignant brain tumors
- 2) Vascular and functional disorders in the brain

What is Leksell Gamma Knife® Perfexion™ ?

The most advanced technology in gamma knife surgery, the **Leksell Gamma Knife® Perfexion™**, available at P. D.

Hinduja Hospital, is the first of its kind in

Western India. It represents the future

of stereotactic radiosurgery, as it

radically broadens both the

techniques and the scope of

treatment by offering faster,

more flexible surgical

procedures, thereby enabling

substantially more patients to be

treated with less effort.



How is the Gamma Knife at Hinduja Hospital different?

Leksell Gamma Knife® Perfexion™ at P. D. Hinduja Hospital, has many advantages over others, including:

- **Fully integrated and automated system:** The radiation unit is housed inside of the machine itself. The radiation beams are shaped exactly around the patient's tumor.

Several tumors can be treated in one session.

- **Automated patient positioning system:** Simplified treatment procedure with considerably reduced execution time.
- The patient can communicate via video camera and an

intercom at all times. The treatment time varies between 20 minutes and several hours depending on the complexity of the treatment.

- Automatic collimator configuration occurs in seconds reduces the treatment time
- Unlimited dose sculpturing using composite shots and dynamic shaping helps better treatment planning and dose delivery
- Low radiation levels in the treatment room leads to better patient safety
- Equipped for remote diagnostics and service

How is Gamma Knife® Radiosurgery done?

A high dose of gamma radiations are delivered via individual beams which intersect at a single spot with the accuracy of less than one-

tenth of a millimeter (about the thickness of a sheet of paper). These radiations make the lesions disappear or shrink or stop growing.



What conditions can be treated with Gamma Knife® Radiosurgery?

Brain disorders like:

- Arteriovenous Malformations
- Acoustic Neuroma
- Meningioma
- Pituitary Tumor
- Brain Metastases: solitary / multiple
- Trigeminal Neuralgia



How many sessions are required for Gamma Knife® Radiosurgery?

Gamma Knife® is typically completed in a single day, with

patients arriving the day before.

How quickly will the Gamma Knife® treatment work?

The effects of Gamma Knife Radiosurgery occur over a period of time that can range from several weeks to several years, depending on the condition being treated.

Can Gamma Knife® treatment be given more than once?

Yes.

What are the benefits to the patients?

- Painless with no incisions (except for anesthesia)
The patient does not have to shave their head and will have no scar, bleeding or infection
- Patient is unlikely to have hair loss or nausea post treatment
- Back-to-normal routine in a day to two

**For appointments, call:
022-67668181 | 45108181**

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