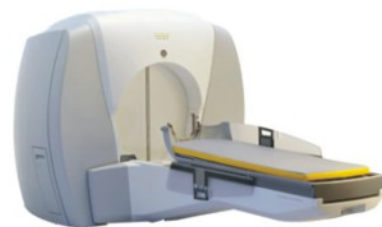
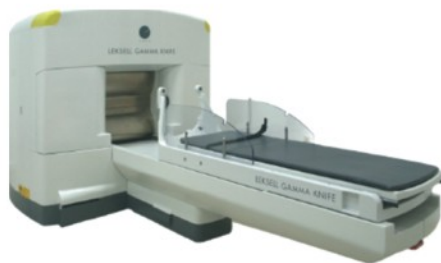




Gamma Knife Center
مركز الجاما نايف

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www.gkcairo.com

Gamma Bulletin

A Newsletter from the Gamma Knife Center, Cairo

January 2011

Gamma Knife Centre, Cairo, 10 Years of Achievements and Much Hope for the Future

By June 2011, the Gamma Knife Centre, Cairo, will complete ten years of active participation to the medical services in Egypt, such years represented to us a long story of success in providing standard of care treatment to our people, to achieve a proper rank in the medical milieu in Egypt, and to become a recognised research and training centre in the region. In the current newsletter we will give an idea about our beginning, our present, and our planes for the future.

In the year 2001:

We treated our very first patient in the Gamma Knife Centre, Cairo, and Mrs Manal's smiling face was like a logo for years to show the patients who were suspicious about how applying the frame would be painful, that everything would go smooth like this smiling lady.

After all of those years, Mrs Manal is still on regular follow up and she is still grateful to this way of treatment that saved her from being subjected to a risky operation as was told by her neurosurgeon, and she continued her life like any wife and mother.



In the above photo we can see Dr. Sameh Ali, our Assistant General Manager, presenting a symbol of our appreciation to our first patient who kept her follow up regular for those years.



In the year 2010:

We also celebrated a different event, our 3000 treated patient, Mr Fathy who is shown with his frame applied and after his treatment with his nice family who were very happy that he ended his treatment without any problems and went home with some flowers from our staff .



Gamma Knife Center

In the year 2001:

The Gamma Knife Centre, Cairo, sent Dr Wael Abdel Halim, our Clinical Director to be trained in Sweden for the gamma knife, and Dr Khaled Abdel Karim, our Consultant Oncologist to be trained in the Cromwell Gamma Knife Centre in London, to gain all the practical and clinical skills to be a part of the starting team of staff.



In the year 2010:

Our centre was recognized as a training centre by Elekta which is the manufacturing company of the gamma knife as we trained a neurosurgeon and a physicist from the republic of Chile. They were very happy to find a centre in the middle east that is run according to the best standards that they found in the USA.

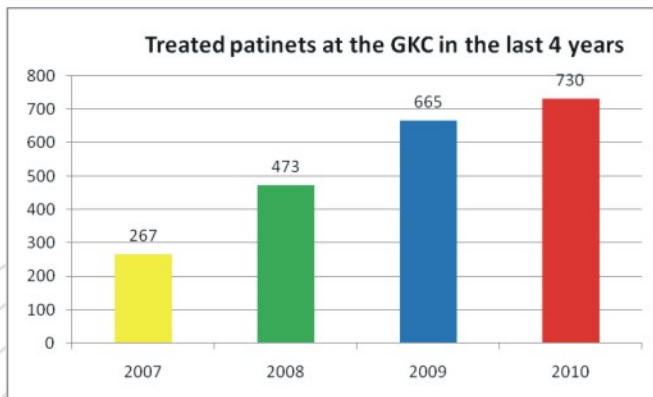
By January 2011 we reached 3100 patients:

We treated 730 patients in the year 2010, which is a new record in the history of our centre; those patients were all treated with all the dedication we are known of.

The following is a table showing the cumulative number of treated patients according to their diagnosis as by December 2009 and December 2010 and a chart that shows the growing numbers of treated patients in our centre in the last four years.



| Indications | Total No. of patients | |
|-----------------------------|-----------------------|------|
| | 2009 | 2010 |
| Meningioma | 909 | 1075 |
| Vestibular schwannomas | 421 | 473 |
| AVM | 318 | 364 |
| Pituitary adenoma | 227 | 282 |
| Cavernous haemangioma | 76 | 97 |
| Low-grade Astrocytoma | 71 | 97 |
| Trigeminal neuralgia | 60 | 75 |
| NF2 | 56 | 65 |
| Craniopharyngioma | 46 | 55 |
| Metastases | 43 | 50 |
| Trigeminal schwannomas | 43 | 44 |
| Glomus jugulare tumors | 42 | 50 |
| Malignant meningioma | 32 | 47 |
| Chordoma and Chondrosarcoma | 27 | 33 |
| Pineal region tumours | 25 | 43 |
| Hemangioblastoma | 18 | 19 |
| Jugular foramen schwannoma | 15 | 17 |
| Epidermoid cyst | 14 | 17 |
| Epilepsy | 10 | 10 |
| Uveal melanoma | 7 | 8 |
| Other | 38 | 40 |



Our scientific efforts in 2010:

We were proud that Dr Amr El Shehaby, the consultant neurosurgeon of our centre had presented the GKC experience for the visual outcome after single-session gamma knife for perioptic meningiomas to the 15th international meeting of the Leksell Gamma Knife society that was held in Athens last May.



And in 2011:

We are also proud that our centre is going to present three research presentation to the 10th Biennial congress of the International Stereotactic Radiosurgery Society next May in Paris:

1- Low dose gamma knife radiosurgery for nonfunctioning pituitary adenomas
Reda Wael*, El-shehaby Amr, Abdel Karim Khaled, Roshdy Sameh

2- Long Term Results Of Gamma Knife Radiosurgery For Treatment Of Intracranial Glomus Jugulare Tumors
Abdelkarim Khalid*, Reda Wael, El Shehaby Amr

3- Visual Outcome after Single-Session Gamma Knife Radiosurgery for Perioptic Meningiomas
El-shehaby Amr*, Reda Wael, Abdel Karim Khaled



Gamma Knife Center plans for the future:

In the year 2001:

We started to operate in Cairo with Gamma Knife, C model which was the most updated version at that time, and it is still serving in the best possible way till today.



And in the year 2011:

We are now in the process of updating our centre to have the most recent advance in the radiosurgery field which is the Gamma Knife Perfexion, to continue our mission in providing the best updated medical service to a larger number of the patient according to the highest international standards.



Important Informations:

معلومات مهمة

The Treatment Steps

1. Application of the Frame
2. MRI
3. Treatment Planning
4. Treatment
5. Removal of the Frame
6. Final Discussion

خطوات العلاج

1. تركيب الحلقة المعدنية
2. عمل أشعة الرنين المغناطيسي
3. تخطيط العلاج
4. العلاج
5. فك الحلقة المعدنية
6. شرح ما تم للمريض بعد العلاج

The image to the right shows the final treatment plan. The purple area is the tumour. The blue areas are the nerves from the eyes, and the yellow area is shape of the treatment radiation. You can see the yellow is kept away from the nerves from the eyes to avoid hurting them.



الصورة توضح خطة العلاج النهائية . اللون البنفسجي يوضح الورم واللون الأزرق يوضح الأعصاب البصرية واللون الأصفر يوضح تغطية الورم بالإشعاع وكما يظهر من الصورة فقد حافظنا على أن يكون الإشعاع بعيدا عن العصب البصري لتجنب أي مضاعفات .

Gamma Knife Neurosurgery (بدون جراحة) العلاج بالجاما نايف



Gamma Knife Model-C



Treatment in one day

العلاج في يوم واحد



Back to work the next day
العودة للعمل اليوم التالي

Symptoms and diagnosis
الأعراض والتشخيص

Conventional Neurosurgery

العلاج بالجراحة التقليدية



Open Surgery
جراحته بالمعوض



Intensive Care
2 - 4 days
رعايته مركزه
لمدة 2-4 أيام



Hospitalization
10 - 16 days
اقامه بالمستشفى
لمدة 10-16 أيام



Convalescence & Rehab.
4 - 6 weeks or more
تفاهه وإعادة ناهل
لمدة 4-6 أسابيع



Back to work
العودة للعمل

Frequently Asked Questions

أسئلة شائعة

1. What is radio surgery?

Radio surgery is the treatment of an illness within the brain in a single session with surgical precision.

1. ماهي الجراحة الإشعاعية؟

هي علاج مرض في الدماغ في جلسة واحدة وبدقة جراحية .

2. Does the Gamma Knife use a laser?

No. The Gamma Knife uses rays like X-rays only more powerful.

2. هل تستخدم "الجاما نايف" أشعة الليزر؟

لا . تستخدم فقط الأشعة مثل أشعة إكس أو السينية .

3. Can Gamma Knife radiation stay in my body and be a risk to my family?

No. There is nothing left in your body that can damage those around you.

3. يمكن أن يظل إشعاع "الجاما نايف" في جسمي وتكون خطرا على أسرتي؟

لا . لا يبقى في جسمك ما يضر أحد .

4. How many sessions of treatment are needed for the Gamma Knife?

Usually only one. If the illness is very extensive, then maybe two.

4. كم جلسة يحتاج علاج "الجاما نايف"؟

عادة مرة واحدة فقط وقد يحتاج المريض لجلستين إذا كان المرض منتشرا .

5. Can the Gamma Knife only be used in the head?

Yes. It is not possible to use it anywhere else.

5. هل تستخدم هذه الطريقة فقط في الرأس؟

نعم . فقط بالرأس .

6. Is the Gamma Knife only able to treat very small things?

No. The Gamma Knife can treat large objects, but we have to take care not to risk damaging normal brain tissue.

6. هل طريقة "الجاما نايف" فقط لعلاج الأمور البسيطة؟

لا . يمكن معالجة الأمور الكبيرة . لكن لا ينبغي حيث تزداد المخاطرة على تلف الدماغ .

7. Can the Gamma Knife be used after ordinary radiotherapy?

Maybe. The answer will vary from patient to patient and case to case.

7. هل يمكن استخدام هذه الطريقة بعد العلاج الإشعاعي العادي؟

ربما . لكن الأمر يختلف من حالة إلى أخرى .

8. How long will I be in hospital?

No time at all. The treatment is done as an outpatient procedure.

8. كم يلزم المكوث في المشفى؟

لا يلزم . حيث جرى في العيادة الخارجية .

9. How long does the treatment take?

There are 4 stages. Putting on the frame takes about 10 minutes. MRI images take about 30 minutes. Treatment planning about 60 minutes. Treatment 60 to 90 minutes. Thus all in all it takes about 4 hours.

9. كم تستمر المعالجة؟

هناك أربع مراحل . يحتاج وضع الإطار 10 دقائق . الرنين المغناطيسي 30 دقيقة . 60 دقيقة لتخطيط العلاج . المعالجة ما بين 60-90 دقيقة . كل المعالجة تستغرق نحو 4 ساعات .

10. Will I need a general anaesthetic?

No. We give small children short bursts of sedation so they sleep through the bits of the treatment they don't like. Claustrophobic patients are also sedated.

10. هل أحتاج لتخدير عام؟

لا . لكن يعطى الأطفال الصغار مسكنا بنيمهم خلال المعالجة . وكذا يعطى مرضى الخوف من الأماكن المغلقة .

11. It's called the Gamma Knife, does it cut?

No. It is called a Gamma Knife because the treatment is called radio surgery and surgery is done with a knife. But the Gamma Knife contains no blade and the treatment is bloodless.

11. اسمها "الجاما نايف" . فهل هناك قطع فعلا؟

لا . اسمها كذا ، لأن المعالجة تسمى الجراحة الإشعاعية ، والجراحة تحتاج لمبضع . "الجاما نايف" : لا مبضع للجراح فيها ولا دم ينزف .

12. Will I be shaved?

No.

12. هل سيحلق شعري؟

لا .

مركز

الجاما
نايف



GKCAIRO.COM

Gamma Knife Centre
Cairo, Egypt

Tel: +20224323839

Fax: +2022033024

E-mail: gkcairo@link.net

Website: gkcairo.com