



養和醫院  
Hong Kong Sanatorium & Hospital

**For Immediate Release**

## **New CyberKnife M6 Service at HKSH for Cancer Patients**

### **Shorter Treatment Time, Fewer Side Effects and Improved Patient Outcomes**

(13 August 2017, Hong Kong) Hong Kong Sanatorium & Hospital (HKSH) has brought in a new cancer treatment option for its patients with the installation of CyberKnife M6, the latest model in Asia, which shortens treatment time, targets the affected area with a high degree of precision and minimises radiation dosage to normal organs.

The non-invasive, non-surgical radiation treatment option is applicable to a broad range of tumours in the body, including lung, liver, brain, spine, prostate, pancreas and kidney. Since its introduction in May this year, more than 40 patients with lung cancer and tumours in spine and brain, have been treated. Some prostate cancer and liver cancer patients have also been treated with satisfactory results.

Assistant Medical Superintendent and Director of Comprehensive Oncology Centre of the Hospital, **Dr. Raymond LIANG Hin Suen**, noted that aging population in the local community has posed challenges to the healthcare system and the number of new cancer cases has been on the increase. “The incidence of cancer has been rising over the past 10 years, reaching to a record high in 2014 with almost 30,000 new cases a year. To take on the challenge, healthcare professionals around the world are looking for treatment options that can achieve high clinical efficiency with fewer side effects. The introduction of CyberKnife M6 at the Hospital provides an additional option to Hong Kong patients.”

**Dr. Stephen LAW Chun Key**, Specialist in Clinical Oncology of HKSH added, “The new model CyberKnife M6 features the unique Multileaf Collimator (MLC) technology, which directs radiation angle and delivers dosage with high precision while avoiding the surrounding healthy tissues, achieving better patient outcomes and fewer side effects.”

With hardware and software designs upgraded, this machine, as compared with the old model, can reduce treatment time by half, while ensuring precision at the same time.

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CyberKnife M6 model moves with highly flexible robotic installation. This, together with MLC which makes use of the tungsten leaves movement to regulate radiation, allows 3D radiation dosage to be delivered accurately. The new model offers a dynamic tracking of a moving tumour as its upgraded software is able to generate shaping with continual image guidance, thus allowing radiation dosage to be distinctly calculated and delivered in sub-millimeter accuracy in spite of moving targets. As a result, treatment can be more targeted and healthy side tissues can be spared.

Patients can also undergo treatment at ease using CyberKnife M6 as its indication-specific tumour tracking system will enable automatic correction to be made during treatment. Unlike some conventional radiotherapy options whereby patients have to hold their breath during treatment to ensure accuracy, CyberKnife M6 patients can breathe normally during the course and it is especially suitable for elderly patients.

In the past, patients with large tumors may need to find alternative treatments because of the unacceptably long treatment time. Now with CyberKnife M6, the treatment time is reduced and discomfort to patients is minimised. Also more patients can benefit from this advanced technology. For instance, a patient with a 5cm lung tumour will have its treatment time cut by half to 35 minutes for choosing CyberKnife M6 as compared with other options.

One of the patients who have opted for the new option at the Hospital is an elderly woman with lung cancer. Her attending doctor, **Dr. KWAN Wing Hong**, who is the Director of Department of Radiotherapy and Associate Director of Comprehensive Oncology Centre of the Hospital, said the size of the tumour is about 5 cm in diameter. “This patient – almost 90 years old - is not a surgical candidate. Result of tradition radiotherapy to treat such a large lung tumour is usually palliative. With its unique tumour tracking capability and sharp radiation dose fall off, ablative radiotherapy can be pursued with a curative treatment.”

To announce the service introduction at the Hospital and familiarise the local healthcare sector with CyberKnife M6, a symposium entitled “HKSH Symposium on Advances in Cancer Management 2017: Confidence in Motion - CyberKnife SBRT” was held today to promote understanding of Stereotactic Body Radiation Therapy (SBRT) among healthcare professionals.



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The symposium was attended by more than 300 participants and joined by overseas experts from the USA, China and Korea who shared their experiences in using CyberKnife. **Mr. Wyman LI**, Manager (Administration) of HKSH told the audience that it is the mission of the Hospital to offer advanced medical technology in treating patients and the introduction of CyberKnife M6 in Hong Kong offers a quality non-surgical option to patients.

Two oncologists from the US, **Prof. Brian COLLINS**, Clinical Director of Department of Radiation Medicine and Assistant Professor of Radiation Medicine of Georgetown University Hospital, USA and **Prof. Jonathan HAAS**, Chairman of Department of Radiation Oncology of Winthrop-University Hospital, USA, shared their experience in applying CyberKnife to different cancer types including lung, liver, prostate and breast cancer, with satisfactory performances.

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### **Hong Kong Sanatorium & Hospital**

Hong Kong Sanatorium & Hospital is one of the leading private hospitals in Hong Kong. With the motto “Quality in Service Excellence in Care”, the Hospital is committed to serving the public as well as promoting medical education and research.

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### Photo Captions:

- 1) Hong Kong Sanatorium & Hospital introduces CyberKnife M6 service, offering an additional option to non-surgical candidate or elderly patients. Mr. Wyman LI, Manager (Administration) of HKSH (fourth from right), Mr. Josh LEVINE, President and CEO of Accuray Incorporated (fifth from right), Dr. Raymond LIANG Hin Suen, Assistant Medical Superintendent and Director of Comprehensive Oncology Centre of HKSH (third from left), Dr. KWAN Wing Hong, Director of Department of Radiotherapy and Associate Director of Comprehensive Oncology Centre of HKSH (third from right), Dr. Stephen LAW Chun Key, Specialist in Clinical Oncology of HKSH (second from right), Prof. Brian COLLINS, Clinical Director of Department of Radiation Medicine and Assistant Professor of Radiation Medicine of Georgetown University Hospital, USA (fourth from left), Prof. Jonathan HAAS, Chairman of Department of Radiation Oncology of Winthrop-University Hospital, USA (fifth from left), Dr. Ben YU, Department In-charge of Medical Physics & Research Department of HKSH (second from left), Dr. George CHIU, Department In-charge of Department of Radiotherapy of HKSH (first from right) and Mr. Alan MUI, Senior Dosimetrist of Department of Radiotherapy of HKSH (first from left).





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2) (From left) Dr. Raymond LIANG Hin Suen, Prof. Jonathan HAAS, Prof. Brian COLLINS, Dr. KWAN Wing Hong, Dr. Stephen LAW Chun Key, Mr. Wyman LI and Mr. Josh LEVINE.



3) Oncology experts from the US and Hong Kong talk about clinical application of CyberKnife M6 technology.





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- 4) Today's symposium was attended by more than 300 participants and joined by overseas experts from the USA, China and Korea who shared their experiences in using CyberKnife.



- 5) The new model CyberKnife M6 features the unique Multileaf Collimator (MLC) technology, which directs radiation angle and delivers dosage with high precision while avoiding the surrounding healthy tissues.

