

TOPic Of The Day:

RESPIRATORY GATING in Radiation Therapy

As the regional leader in thoracic oncology care, University Hospital offers the only Respiratory Gating program in Central New York.

PRECISE TUMOR TRACKING

Varian's innovative Real-Time Position Management (RPM) Respiratory Gating system allows you to accurately and cost-effectively monitor and compensate for tumor motion during the course of treatment. The system is designed to be used anywhere you encounter the effects of respiratory motion. These areas include, but are not limited to, the lung, breast and liver.

REAL-TIME POSITION MANAGEMENT (RPM)

From simulation to treatment, the RPM Respiratory Gating system allows you to accurately monitor and compensate for tumor movement.

QUICK, EASY AND ACCURATE RESPIRATORY MONITORING

Varian's Respiratory Gating system lets you monitor respiration quickly and easily—without sacrificing accuracy and patient comfort. First, the system uses a sophisticated video monitor to characterize the patient's breathing pattern. The pattern is obtained by tracking the motion of the lightweight, retro-reflective marker placed on the patient.

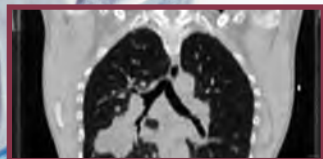
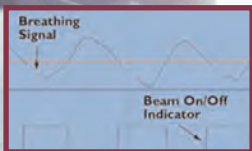
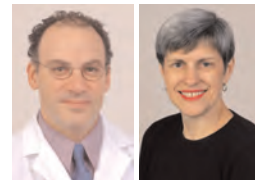
Then through video image analysis and signal processing, the system identifies both the full range of chest wall motion during respiration and the normal pattern of that motion. By correlating this data with the motion of the tumor in simulation, you can create a treatment plan that gates the treatment beam on only when the tumor falls within the planned beam aperture. Meanwhile, the Respiratory Gating system allows the patient to breathe naturally and remain comfortable while preserving normal lung function with less injury to surrounding tissues.

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UNIVERSITY HOSPITAL'S THORACIC ONCOLOGY PROGRAM

VIEWS
FROM
THE
TOP
UNIVERSITY
HOSPITAL'S
THORACIC
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PROGRAM

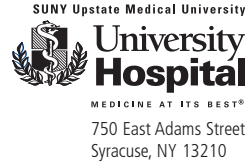
TEAM APPROACH to treating thoracic cancers — including lung cancer, esophageal cancer, mesothelioma, mediastinal tumors, thymoma, malignant pleural effusion and cancers metastatic to the chest.

ONE APPOINTMENT CONVENIENCE for patients to meet with **specialists from: Thoracic Surgery, Medical Oncology, Radiation Oncology, Pulmonary Medicine and Thoracic Radiology.**

PERIODIC UPDATES on University Hospital's treatment options for your thoracic oncology patients at the **region's only academic medical center.**

If you would like more information on **respiratory gating** please contact us at MD Direct, 800-544-1605.

University Hospital...providing TOP care for your thoracic oncology patients.



www.upstate.edu/top

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