HealthManagement
Promoting Management and Leadership

Elekta Introduce 4D Tumour Imaging Technology

Lung tumours have been among the most challenging radiation therapy targets because the patient's breathing causes tumours to move. New research has shown that the lung tumour shifts position from day to day during the course of treatment (baseline shift). Doctors often have had to use external skin surface markers or implanted markers to estimate lung tumour position during the breathing cycle and then apply the beam only during certain points in the patient's respiration. These strategies require complex, time-consuming planning and delivery, and prolong treatment with an inefficient stop-start (i.e., gated) beam delivery.

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