

Varian treatment Delivery solution for Siemens® Linacs

Varian treatment streamlines the treatment delivery process to enable the therapist to focus on the quality of patient care. The intuitive interface and automated field sequencing simplifies workflow. With Varian treatment, users can verify accurate treatment setups for patients on supported Siemens linear accelerators (see page 2 for supported models).

Treatment delivery made simple

Varian treatment provides more than a simple record-and-verify function for supported Siemens linacs. The interface enables the therapist to deliver simple and complex treatments with confidence and efficiency. The single application allows the therapist to quickly select and perform tasks necessary for treatment. Treatment field information is available with a single mouse click further simplifying the treatment process.

Treatment sessions

Treatment fractions are automatically loaded when the patient is selected from the patient queue and are presented in a Windows® Internet Explorer®-like navigational window. The therapist is provided with a full view of all the fractions planned for that particular patient and the dose delivered to date. Therapists may determine field sequences, schedule port films/images to be acquired, edit fields, and modify reference point doses based on user rights. For efficiency, the therapist can reorder the treatment fields by selecting a field and dragging it to its new ordered position. The advanced therapist can quickly add, edit and modify fields, an essential capability when dealing with an emergency case. By displaying all necessary field parameters on a single screen, saving these parameters only requires a single mouse click.



Varian treatment displays patient identifiers, plan parameters, and set-up information to simplify the treatment delivery process.

Network independence

Each patient's scheduled treatment plan is downloaded onto the treatment workstation; if network connectivity is lost during treatment, the patient's entire treatment session can be completed without interruption. Once the network connection is restored the treatment history is saved to Varian's oncology information system (OIS) database.

MLC treatments

Varian's OIS stores the planned Siemens MLC leaf information that will be downloaded to the Siemens linac for treatment by the Varian treatment workstation. During treatment, the MLC is driven automatically into position for each field. The field shape of the MLC is graphically displayed on the console.

Streamlining the treatment delivery process

Auto field sequencing

When treating multiple fields, the auto field sequencing support capability of the Varian treatment application will automatically send over the next field following completion of the previous field without therapist interaction.

Port films

Therapists can specify that port films are taken before, during or after treatment delivery. At the specified point in the treatment process, the therapist will be prompted to acquire the port film. The therapist can decide whether port film dose will be accumulated or subtracted and displayed in treatment history. The therapist can also decide whether or not to use an accessory during the port film acquisition.

- Port film requests may be pre-scheduled as part of the patient's plan or added as an ad hoc request within the Varian treatment application.

Accumulated dose

The dose received by each reference point (as specified in the patient chart) is automatically recorded and available in the patient's treatment history. When a partial treatment is performed, the appropriate partial dose is saved to the treatment history.

In-room monitor display

The advanced, graphical in-room monitor display provides critical information needed for patient setup. The intuitive, easy-to-read layout provides the actual versus planned machine and couch parameters, patient setup photos (two per treatment field), and patient setup notes entered into Varian's OIS. In addition, the in-room monitor displays any interlocks that may occur.

Quality assurance

Because safety is paramount, modifications to treatments are easily tracked within the plan and treatment histories. Here, the clinical staff can view field overrides and identify the individual who made the change. Varian treatment examines doses (breakpoint, daily, session, and total) for each reference point. If any is about to be exceeded, a warning message will appear and must be acknowledged before radiation can be delivered.

Hardware requirements

The necessary hardware is included with Varian treatment:

- One dedicated Varian treatment workstation
- One 20" LCD monitor for Varian treatment workstation
- One Verification Interface (VI) computer
- One 20" LCD in-room monitor
- One wireless mouse

Software requirements

The 2010 release of Varian Treatment is compatible with the ARIA® oncology information system versions 8.6, 8.8, and 10.0.

The Siemens DMIP Protocol 2, Protocol 5, or Protocol 6 interface must be enabled on the linac. Interfaces can be purchased from Siemens.

Siemens Models Supported

- Mevatron® KD-2
- Mevatron® KDS-2
- Mevatron® MD-2
- PRIMUS®
- PRIMART®

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