

Varian Treatment Delivery solution for GE Saturne Linacs

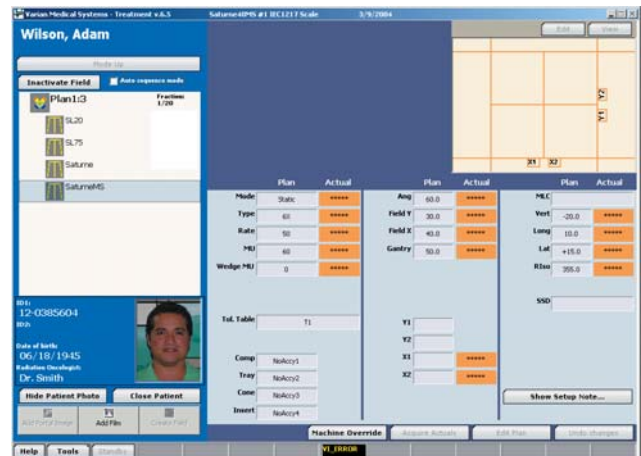
The Varian Treatment (VT) streamlines the treatment delivery process to enable the therapist to focus on the quality of patient care. With VT's intuitive interface and automated field sequencing, the therapist can save time delivering efficient treatments. Using VT, the therapist can verify that the patient is receiving accurate treatments on GE Saturne linear accelerators.

Treatment delivery made simple

With VT, the therapist is provided more than a simple record-and-verify function. The intuitive 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 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 acquire field parameters, determine field sequences, schedule port films/images to be acquired, edit fields and modify reference point doses if sufficient user rights are assigned. For efficiency, the therapist can reorder



VT displays patient identifiers, plan parameters, and setup information to simplify the treatment delivery process.

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.

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.

Streamlining the treatment delivery process

Auto field sequencing

When treating multiple fields, the auto field sequencing support capability of VT will download the scheduled fields to the linear accelerator automatically.

Port films/images

Therapists can specify that port films/images be 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/image. The therapist can decide whether port film/image 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/image acquisition.

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 the critical information needed for patient setup. The intuitive, easy-to-read layout provides the actual versus planned machine and couch parameters, patient set-up photos (two per treatment field), patient set-up notes and any special appointment-specific 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 treatment history. Here, the clinical staff can view field overrides and identify the individual who made the change. VT 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. In addition, outside-the-treatment-room motions can be restricted by parameter, globally or on a field-by-field level.

Hardware requirements

The necessary hardware is included with VT:

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

GE Models Supported

- Saturne 40
- Saturne 41
- Saturne 42
- Saturne 43

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