When you chose the TrueBeam® system, you selected Varian’s innovative and most capable technology, a machine formed over years of development and engineering effort. This effort continues and TrueBeam’s capability has moved on, but the only way to take full advantage of our ongoing development efforts and keep your clinic at the forefront of radiotherapy advancements is to upgrade your system. Exciting new capabilities are available to our customers in the form of incremental version upgrades and optional features. Basic upgrades also unlock the possibility to add further optional functionality and we have created some upgrade value packages to make it easier and more cost-effective for you to further raise your capabilities.

Minimizing the duration of hardware upgrades
Varian understands how your TrueBeam plays a leading role in your ability to provide high quality care to your patients. We understand that the time during an upgrade when your TrueBeam would be unavailable is a major concern to you and can pose a significant inconvenience to your patients. For this reason, we have been working hard to reach a solution to minimize the duration of hardware upgrades. Contact your Varian regional sales manager to learn more about the streamlined time frames for upgrades.

Risks of not upgrading your TrueBeam system

Cyber security threats
Cyber security is as important to Varian as it is to our customers. We have taken significant steps in the latest ARIA® oncology information system release to address the changing needs in this field. To support this initiative, TrueBeam must also be protected and this higher level of safety is only possible with the latest versions of hardware and software.

Unexpected downtime and upgrade costs
In the event of failure of legacy versions of TrueBeam and under a worst case scenario, a system upgrade could be the only resolution. In this situation, machine downtime would be unexpected and you may have not considered the cost in your budgeting. Arranging the upgrade ahead of time allows for these issues to be properly mitigated through coordinated planning, both in the clinic and for Varian’s technical staff. You can arrange to have the upgrade at a time convenient to your clinic and can prepare ahead of time.

Upgrade pathways
To lift your system to the most current state or keep it there, while at the same time allowing you to budget and plan for the upgrade, we offer the following options:

1. **Uplift TrueBeam to version 2.7 with a one-time upgrade.** Depending on geographical availability, an intermediate step to 2.5 might be required. An upgrade from 2.5 to 2.7 may be executed remotely with minimal impact to your clinical service.

2. **Uplift TrueBeam on a perpetual basis with a Varian service contract.** By adding system protection to your service contract, Varian will execute all major software release upgrades on your TrueBeam platform. This ensures that your system is always up-to-date and ready for future feature releases.
**Selected benefits included in latest TrueBeam versions**

- Machine Performance Check to automate machine self-test for quick daily checks
- Various additions to support paperless working, including ability to enter treatment notes at the console that can be saved to ARIA for later review
- Various efficiency improvements, sign off behaviors and workflow optimizations (Field-by-field stereotactic radiosurgery (SRS) sign off has been replaced by single plan-based sign off.)
- Increased maximum MU limits for treatment techniques
- Improved workflow automation
- Increased possibility for remote service support and upgrade deployment (Offers faster responses and has the potential to reduce unplanned downtime.)
- Improved remote service capabilities in some regions

**Optional functionality available with latest TrueBeam versions***

- PerfectPitch™ 6 degrees of freedom couch for increased precision for challenging targets and integrated workflow for improved clinical efficiency
- Online 4D CBCT
- Gated and short arc CBCT
- 2D/3D auto match algorithm
  - Automatically match 2D images more reliably, even in presence of out-of-plane rotation
  - "On the fly" reference image generation for imaging at arbitrary gantry angle
- Image during treatment using kV triggered acquisition process (Detect fiducial markers and automatically pause the treatment beam.)
- Visual coaching device to help achieve a reproducible breathing pattern during image acquisition
- HyperArc™ high-definition radiation therapy as a potential solution for frameless, MLC-based, non-coplanar intracranial SRS
- Delta couch shift to support automatic predefined couch shifts
- Motion management interface for Calypso® system, Optical Surface Monitoring System (OSMS) and other validated patient monitoring devices to monitor tumors in real time and gate the beam if tumors fall outside of pre-defined areas

*Feature available with TrueBeam 2.7

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**Not all features, products, or upgrades are available in all markets.**

**Intended Use Summary**

Varian Medical Systems’ linear accelerators are intended to provide stereotactic radiosurgery and precision radiotherapy for lesions, tumors, and conditions anywhere in the body where radiation treatment is indicated.

**Important Safety Information**

Radiation treatments may cause side effects that can vary depending on the part of the body being treated. The most frequent ones are typically temporary and may include, but are not limited to, irritation to the respiratory, digestive, urinary or reproductive systems, fatigue, nausea, skin irritation, and hair loss. In some patients, they can be severe. Treatment sessions may vary in complexity and time. Radiation treatment is not appropriate for all cancers.

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