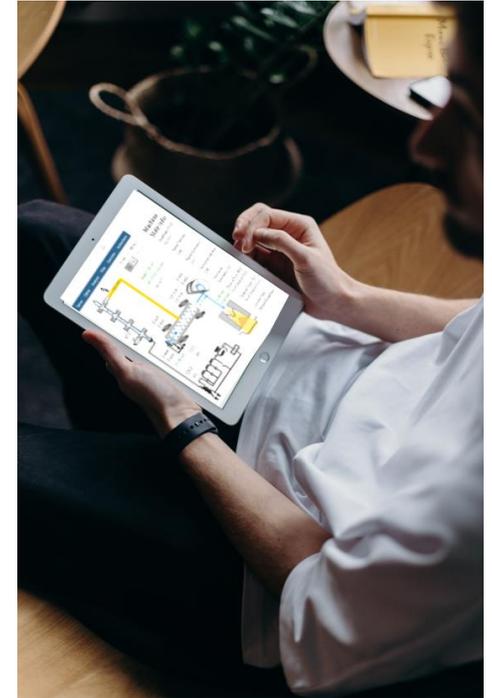*Analyzing Beam information in SIMAC*

What is SIMAC?

➢ A medical linear accelerator simulator.

➢ Can control linac setup in a similar way as in linac service mode.

➢ Can make linac adjustments and learn how the machine responds without accessing a real linac.

➢ Do not have to worry about damaging the linac or mis-calibrating a clinical unit.

About Simac

For medical physics faculty teaching residents, graduate, or undergraduate students, SIMAC is a virtual textbook and linac simulator. It includes comprehensive content, as well as questions and exercises with problems. Unlike a paper textbook, it includes interactive simulations of linac physics. Content can be assigned to students to ensure the right content matches learning objectives.
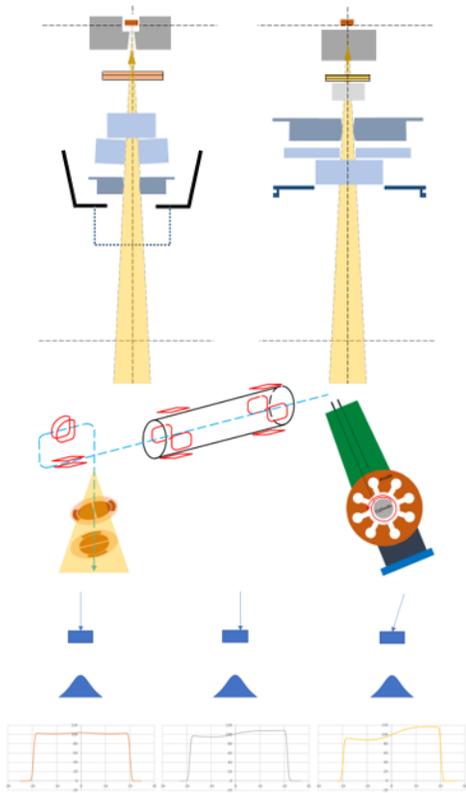
LINAX

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https://linax.ca

Linax Technologies LTD.

Information for teachers

Simplifying radiotherapy for anyone who needs it.

Linac modelling in SIMAC

Linax Technologies

➤ Our vision is a world where radiotherapy is accessible to anyone who needs it.

➤ Our mission is to simplify radiotherapy.

➤ We value open knowledge sharing, collaborations, and communities.

Why use Linax.ca for your class?

➤ Thirteen chapters on different linear accelerator subjects, enough for a complete linac course, or can be separated into a section of a more general course.

➤ Each chapter has a minimum of 15 quiz questions (many have more). These can be assigned before a class for discussion or can be used as an assignment.

➤ Each chapter has a video lecture as well as written out text so students can view the material quickly and then read at their own pace.

➤ Includes eight exercises or linac laboratories that study the effects of each linac component. Each exercise comes with discussion questions, and answers that can be used for classroom discussions.

➤ Content can be tagged so that custom lesson plans can be built.

Like a flight simulator for pilot training, we envision an integrated platform where learners can manipulate the operating parameters of a linear accelerator and learn how to adjust them in a secure environment without the risk of damaging the accelerator or misadjusting the machine, in the comfort of your office or favorite couch.

What is Linax.ca?

➤ A modern day learning environment.

➤ Same quality content as a traditional textbook.

➤ Enhanced learning through interactive content.

➤ Virtual laboratories in an on-line environment.

➤ Tag content that you want your students to focus on.

➤ Build custom lesson plans to suit the student audience.