



IAEA

Organismo Internacional de Energía Atómica

**WEBINAR on
BRACHYTHERAPY CALIBRATIONS AT AN SSDL**

Date: 2 December 2021

Organized by the IAEA's Technical Cooperation Division for Latin America and the Caribbean and the Division of Human Health

Background

Brachytherapy is an essential component of the curative treatment of cervical cancer, a disease with high incidence in many developing countries. High dose rate (HDR) brachytherapy is also used in other common cancers such as breast, lung, oesophagus, and prostate cancer. It is critical to know the dose administered to the patients for the expected treatment outcome. This requires that equipment used for dosimetry be calibrated. All radiation monitoring instruments should be calibrated regularly as recommended by internationally.

Objectives

The purpose of the webinar is to provide technical bases for brachytherapy calibrations at SSDLs for participants from Secondary Standards Dosimetry Laboratories (SSDL). This will help SSDLs to perform brachytherapy calibrations. This webinar will comprise lectures, and Q&A sessions.

Target Audience

The main intended audience for this webinar is scientists working as radiation metrologists, physicists or technicians in a Secondary Standards Dosimetry Laboratory with a background in radiation dosimetry. The candidates should be involved in establishing or performing calibrations for brachytherapy.

Working language: The Webinar will be held in **Spanish**.

Registration

Please register for the webinar using the following links:

https://teams.microsoft.com/registration/kxTyotGkf0utB4Gcgk9cSg,OGGoMQZxNhkuVagh_5dQ97R,ZI7n4PdKOUOMu8HgaY80UQ,jfx2dpc_tUaFY5wm4Y2svg,yoTdgNasbkrygLRDEHMclw.fcwgRPJUl0uGXxkavDkHGA?mode=read&tenantId=a2f21493-a4d1-4b7f-ad07-819c824f5c4a

After the registration, you will receive an electronic mail containing information on how to access the webinar by simply following a hyperlink to join the Ms Teams meeting.

To address possible technical problems outside of the Secretariat's control, such as issues with computers, mobile devices, and internet connections, the Secretariat requests participants to follow these recommendations in advance of the meeting:

- If connecting from a computer, confirm the following specifications:
 - Quad-core processor with 4 GB memory (RAM) (most modern, business computers meet this specification);
 - Microphone and speaker - headset preferred; and
 - Built-in or externally connected high-definition camera.
- If connecting from a mobile phone or tablet, confirm the following specifications and download the Teams app:
 - iPhone model 6s or later; or
 - Android phone with operating system OS 10 or later.
- Run the following tests in the same location, with the same device with which you intend to attend the virtual meeting, and using the same internet provider which will be used during the meeting:
 - Check if the speed of the internet connection is at least 4.0 Mbps for downloads and 2.5 Mbps for uploads by, for instance, using <https://www.speedtest.net/>.
 - Carry out a test call in MS Teams by following these instructions: [Manage your call settings in Teams - Office Support \(microsoft.com\)](#).
- Participants using a WiFi network should plan to be as close as possible to the wireless access point (where possible, connect the laptop directly with a cable).
- Avoid having a window or other source of light behind you, even if the window has a curtain which is closed.

Please contact your IT department if the test fails. For additional help regarding registration, please contact Ms Marta MARTINEZ GARCIA, M.Martinez-Garcia@iaea.org

Deadline for registration: 30 November 2021

Webinar programme:**2 December 2021**

- Basics in brachytherapy calibrations
 - Primary standards
 - Secondary standards
 - Use of calibration in the clinic
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