The role of international organizations and professional societies
ALATRO Program 2016-2018

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**ALATRO educational policy 2016-2018**

- Establishing relationships with educational partners other than scientific societies to obtain consensus on selected topics
- Participation in Symposia organized by other societies or groups to draft common guidelines for each topic or tumour site
- Collaboration with scientific societies to organize workshops or courses on contouring
- Development of an e-learning platform with two main objectives:
  - Master in Advanced radiotherapy (IAEA-ALATRO) in Chile (start date 5 June 2017)
  - E-library
ALATRO educational policy 2016-2018

MASTER IN ADVANCED RT
Why a Master in advanced RT

MOST CENTERS IN LATAM
MASTER IN ADVANCED RADIOThERAPY
2017

Universidad de los Andes
Santiago-Chile
University of Los Andes

Arturo Lopez Perez Foundation

IAEA
International Atomic Energy Agency

Sponsorship

In collaboration with

ALATRO
Asociación Latinoamericana de Trabajo Nuclear Oncológico

Comisión Chilena de Energía Nuclear
Ministerio de Energía

Gobierno de Chile

SOCIEDAD CHILENA DE RADIOTERAPIA ONCOLOGICA
1. **Starting year:** 2017
2. **Duration:** 12 months theoretical sessions, practical sessions, thesis/essay preparation)
3. **Working hours:** Monday to Friday from 8:30 to 17:30
4. **Vacancies:** 15 by IAEA
5. **Funding:** IAEA will finance students’ stay and roundtrip flight as well as teachers’ and academic fees
6. **Patronage**
   - Arturo Lopez Perez Foundation Cancer Center
   - Los Andes University School of Medicine
   - Chilean Society of Radiation Oncology (SOCHIRA)
   - International Atomic Energy Agency (IAEA)
   - Ibero-Latin-American Society of Radiation Oncology (ALATRO)
   - Chilean Commission for Nuclear Energy (CCHEN)
   - National Cancer Institute – Chile
   - IRAM Cancer Center
   - UC Christus Cancer Center
   - Viña Cancer Center
7. **Sponsorship:** International Atomic Energy Agency (IAEA)
Master RT: Requirements

- Medical Degree (according to the laws current in the candidate’s Country of origin)

- Degree in Radiation Oncology (according to the laws current in the candidate’s Country of origin). Last-year Radiotherapy Residents will be allowed to enroll if their government considers it indispensable for the future development of radiotherapy in their Countries.

- Post-RT specialization experience of 2 to 5 years (this requisite does not apply to RT residents)

- Proven theoretical and practical knowledge of 3D-radiotherapy

- Health compatible with all program activities
Technological Platform at FALP Cancer Institute

PAPERLESS ACCESS

PET CT for RT planning

This makes for RT treatments based on the “functional” dissemination of the disease, which means a more precise target delimitation.
Image guided RT (IGRT) => More exact administration of each fraction

- Before each RT session images are taken, so as to correct the patient’s position when needed.
- Higher treatment precision margins + fewer healthy tissues irradiated => fewer early and late acute effects
- Higher RT dose => higher disease control
Brachytherapy

Intraoperative Radiotherapy
Study Plan

• 3-month theoretical course on generalities
• 4-month advanced radiotherapy techniques
• 4-month theoretical course on advanced radiotherapy application by site
• Seven 2-day workshops on specific topics
• 12-month practical training on various techniques and application, complementing the theoretical online courses
Study Plan 3 months: generalities

- **Theoretical course on general oncology** → Online
- **Introductory theoretical course** → 3 months
  - Radiobiology
  - Radiophysics
  - Hypofractionation
  - Single Dose
  - Abscopal effect
  - Image-guided simulation
  - 3D conformational RT: basics
  - Contouring
  - Automated Contouring
- **Statistics course** → Online
- **RT management course** → Online
Study Plan 4 months

• **Theoretical-practical workshop on advanced RT technologies months**
  - Modern RT
  - IMRT
  - VMAT/Rapid Arc
  - SBRT
  - Brachytherapy
  - IGRT
  - Tomotherapy
  - Intracraneal radiosurgery
  - IORT
  - Protontherapy

• **Theoretical-practical course on advanced RT applications according to site**
  - Breast
  - Head and Neck
  - GI: liver, pancreas, rectum, anal canal
  - Pediatrics: state of the art 2017
  - Sarcomas
  - Prostate
  - Lung
  - Central Nervous system
  - Cervix
Study Plan

• Workshops:
  => 2 days every 2 months.
  => National and international teachers
  => Subjects:
    - Basics of advanced RT
    - Protontherapy and Tomotherapy
    - IMRT - IGRT
    - Brachytherapy and IORT
    - SBRT
    - Treatments by specific site

• Research thesis
  => on a clinical and technological subject, or oncogenomics or radioimmunotherapy
Technology alone is not enough.

— Steve Jobs —
Program Objectives

- To prepare participants for the challenges that face them in their clinical and research practice.

- Offer a global approach of the present advances in Radiotherapy:
  - Acquire specialized knowledge of technological developments

- Perfect and update:
  - Theoretical knowledge
  - Skills / abilities
  - Professional competence and management
Advantages of the program

- Improving the level of RT in LATAM from 3D to IMAT-IGRT techniques
- Geographically better suited than other similar programs outside LATAM
- National and international well known teachers
Inauguration Ceremony 5 June 2017
Participants

MARIA CECILIA ATENCIO ROSSELOT
EMILIANO EZEQUIEL LISSANDRELLO
CAROLA LILIAN ZAMURIANO CORRALES
STEPHANIE LOPEZ MENA
MARIA ALTAGRACIA VASQUEZ REYES
SONIA DAVILA POREZ
ELIA NALLELY BARRIENTOS LUNA
FRANK ANTONIO SOTO HERRERA
ALDO ARTEMIO TORRES RODRIGUEZ
EDGAR GUSTAVO LASTEROS AYMA
LEANDRO RAUL RICAGNI ZABALVEYTIA
NEYLA REBECA CARDozo CASTELLANO
SAMUEL ALBERTO QUIROZ HERRERA
MILTON PEREZ CANTERO *
FELIPE CARVAJAL VILLARROEL **
ALATRO educational policy 2016-2018

E-LIBRARY
There is an implicit need for health professionals to constantly refresh and improve their knowledge of the field, in order to keep up with scientific and technological advances.

However, Continuing Medical Education must offer methods and procedures that are easily accessed to make studying compatible with their professional activities.

For this reason, our Manuals on Radiation Oncology, Diagnostic Imaging and Nuclear Medicine, authored and coordinated by leading expert in each field, have been edited in a DIGITAL FORMAT ACCESSIBLE ONLINE

ediciones.grupoaran.com/inicio-sesion
Contents

14 books by 122 experts in:

- Radiation Oncology
- Radio diagnostics
- Medical Physics
- Hospital Radiophysics
- Diagnostic Imaging
- Nuclear Medicine
- Radiology
- Psycho-oncology
- Physical therapy
- Nursing
- Medicine and Surgery

1. Atención al paciente en Oncología Radioterapia, Medicina Nuclear y Diagnóstico por la Imagen.
2. Fundamentos físicos y equipos en Oncología Radioterapia, Medicina Nuclear y Diagnóstico por la Imagen.
3. Anatomía por la imagen en Oncología Radioterapia, Medicina Nuclear y Diagnóstico por la Imagen.
4. Protección Radiológica en Oncología Radioterapia, Medicina Nuclear y Diagnóstico por la Imagen.
5. Simulación del tratamiento radioterápico
6. Dosimetría física y clínica en Radioterapia
7. Teleterapia. Tratamiento
8. Braquiterapia. Tratamientos
9. Radiofarmacia. Técnicas
10. Medicina Nuclear. Técnicas de Imagen
11. Radiología simple
12. Radiología especial
13. Ecografía y tomografía computarizada
14. Resonancia magnética. Técnicas
Resources

- Contents developed and updated by the best experts
- Self-learning virtual material with final tests
- Intuitive and easy to manage
- **Pioneers**
- **Exclusive for Spanish**
- Page markers
- Quick search

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Thank you for your attention

See you in Punta Cana next November