

# SHORT CURRICULUM VITAE BOŽIDAR CASAR

## 1. Personal data

Name: Božidar Casar

Date and place of birth: [REDACTED]

Nationality: Slovenian

Employed (full): Institute of Oncology Ljubljana

Zaloška 2

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Slovenia

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GSM: [REDACTED]

Email: bcasar@onko-i.si

Employed (part time): Faculty of natural sciences and mathematics, University of Maribor

## 2. Languages

Fluent in Slovenian, English, German, Croatian, and Serbian.

## 3. Education and Teaching

- MSc equivalent in Physics (1993), Faculty of Mathematics and Physics, University of Ljubljana.
- Specialist training in Medical Physics at Montreal General Hospital, Canada (1996), under the supervision of Prof. Ervin B. Podgoršak.
- Authorized Medical Physics Expert in Radiotherapy and Radiation Protection (2004–present), certified by the Ministry of Health of the Republic of Slovenia and the Slovenian Radiation Protection Administration.
- Assistant Professor at the Faculty of Natural Sciences and Mathematics, University of Maribor (2021–present).
- Lecturer at the University of Trieste, ICTP – Master of Advanced Studies in Medical Physics (2019–present).
- Certified Medical Physics Expert (2018), awarded by the European Examination Board of the European Federation of Organizations for Medical Physics (EFOMP).
- PhD in Science (2019), Faculty of Science, University of Zagreb.

## 4. Employment in the Field of Medical Physics

- 1993–2000: Medical Physicist, Institute of Oncology Ljubljana (IOL).
- 2000–2016: Head, Department of Radiation Physics, IOL.
- 2016–present: Head, Department for Dosimetry and Quality of Radiological Procedures, IOL.

## **5. Professional and Scientific Activities**

Key contributions to the development of medical physics in Slovenia include:

- Introduction of 3D conformal radiotherapy, IMRT, and VMAT into clinical practice.
- Implementation of stereotactic radiosurgery (SRS) in clinical practice (1999); this work was recognized as one of the most significant achievements in Slovenian medical science and featured in a special exhibition at the Slovenian Technical Museum (2013).
- Introduction of total body irradiation (TBI) using translational techniques on a linear accelerator (2011).
- Establishment of a national QA/QC system for radiotherapy.
- President, Medical Physics Section of the Slovenian Biophysical Society (1997–present).
- Member, Slovenian Council for Protection Against Ionizing Radiation, Ministry of Health (2005–present).
- Vice President, Governmental Hospital Council (2013–2017).

## **6. Collaboration with the International Atomic Energy Agency (IAEA)**

Served as IAEA Consultant and Expert in over 10 expert missions to various countries, undertaking roles such as lecturer, auditor, equipment commissioning specialist, and governmental advisor.

## **7. Selected Research Work and Projects**

Involvement in more than 10 national and international research projects, including:

- National representative for Slovenia in the EURAQA project (European Radiotherapy Quality Assurance), DG XII/B2 Copernicus Project, European Commission (1995–1998).
- Principal counterpart in IAEA TC SLO 6003: “Upgrading the Quality Assurance and Quality Control Programme in Radiotherapy, Stereotactic Radiosurgery and Nuclear Medicine in Slovenia” (2007–2008).
- National counterpart in IAEA regional project RER/6/031: “Strengthening Medical Physics in Radiation Medicine” (2014–2015).
- Researcher in ARRS-funded Research Program P1-0389 – Medical Physics (2015–2020); served as the IOL’s lead researcher.
- Main counterpart in IAEA TC SLO 6006: “Improving Safety and Quality of Radiology Services through the Development of Medical Physics Departments and Enhancing the Theranostic Nuclear Medicine Approach” (2018–2020).

## **8. Organization of International Conferences and Courses**

Significant organizational roles over the past decade include:

- Scientific Committee Member, 7th AAMP Meeting, Zagreb (2016).
- Scientific Committee Member, 8th AAMP Meeting, Novi Sad (2017).
- Scientific Committee Member, 9th AAMP Meeting, Graz (2019).
- Scientific Committee Member, 12th AAMP Meeting, Trieste (2025).
- Local Co-Chair, ESTRO 36 Conference, Vienna (2017).
- Chief Local Organizer, AAPM–ISEP course “Challenges in Modern Radiation Therapy Physics” (2018).
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## 9. International Memberships

- Member, EFOMP (1997–present).
- Member, ESTRO (various years).
- Honorary Member, Association of Medical Physicists in Bosnia and Herzegovina (2016–present).

## 10. Editorial Board Memberships

- *Journal of Radiotherapy in Practice* (2004–present).
- *Polish Journal of Medical Physics and Engineering* (2012–present).
- *Radiology and Oncology* – Guest Editor (2018); Deputy Editor – Section Editor for Medical Physics (2020–present).
- *Reports of Practical Oncology and Radiotherapy* – Editorial Board Member (2018–present).

## 11. Reviewer Roles

Reviewer for several international scientific journals, including:

- *Journal of Radiotherapy in Practice*
- *Polish Journal of Medical Physics and Engineering*
- *Radiology and Oncology*
- *Reports of Practical Oncology and Radiotherapy*
- *Physics in Medicine and Biology*
- *Medical Physics*
- *Physica Medica*