

## **Curriculum Vitae: Prof.dr.sc. Boris BRKLJAČIĆ**

### **Current Position:**

Since 2013: Permanent full (ordinary) Professor of Radiology, University of Zagreb School of Medicine. Since October 2001 Chairman, Department of Diagnostic and Interventional Radiology, University Hospital "Dubrava", Zagreb  
Since 2015 Vice-dean for Science, University of Zagreb School of Medicine  
Since March 2020 Adjunct Professor of Radiology, Hebrew University, Jerusalem, IL

### **Past Positions:**

Nov 2007-Feb 2013: Full (ordinary) Professor of Radiology  
July 2002-Nov 2007: Associate Professor of Radiology  
2007: Education in breast MRI, Memorial Sloan Kettering Cancer Center, NYC  
1997-2002: Assistant Professor of Radiology  
1994-2001: Consultant Radiologist, Department of Radiology, University Hospital "Merkur", Zagreb.  
1993 and 1997 Visiting fellowship in ultrasound: Thomas Jefferson University Philadelphia, PA, U.S.A  
1994 PhD, University of Zagreb School of Medicine  
1994: Board exam in Radiology.  
1988: M.D., University of Zagreb School of Medicine.

### **Experience:**

A board-certified radiologist since 1994 and Chairman of the Department of Diagnostic and Interventional Radiology, University Hospital Dubrava, Zagreb since 2001, he has also gained experience at the Thomas Jefferson University, Philadelphia and Memorial Sloan Kettering Cancer Center, in New York City.

He has been President of the Croatian Ministry of Health's Advisory Board for radiology since 2004. This body is responsible for advising the Ministry on all aspects of radiology and deals with all aspects of quality control. It has mostly concentrated on renewal of equipment and education: Clinical Audit in radiology is not well developed in Croatia apart from in breast cancer screening, in which he is highly involved - since its inception in 2005, he has been Head of the Advisory Board for the National Breast Cancer Screening Programme in Croatia, a position to which he was appointed by the Croatian Ministry of Health. There he has elaborated quality control guidelines, which are published in Croatian. Additionally, he was President of the Croatian Society of Radiology from 2008 to 2012.

He is currently acting as Chairman of the Board of Directors of the European Society of Radiology. He is a member of the ESR-led consortium in the EC tender project QuADRANT on clinical audit (project volume: EUR 249,700) and chair of the Advisory Board of the EURAMED rocc-n-roll project (project volume: EUR 1,959,175), aiming to establish a strategic research agenda and roadmap for medical radiation protection. He is the designated ESR Board of Directors member coordinating and overseeing the ESR iGuide project, ESR's imaging referral guidelines embedded in clinical decision support. He has been coordinating the introduction of ESR iGuide pilots in his country, Croatia, and overseeing ESR iGuide pilot projects in the following countries: Sweden, Spain, Germany, Belgium, Saudi Arabia, United Arab Emirates, Israel (total project volume for ESR iGuide pilots: EUR 400,000) with the aim to improve appropriateness of imaging referrals and thus justification of medical imaging, including impact assessment.

As vice-dean of the University of Zagreb School of Medicine (UZSM) he was chairing UZSM part of work as a Strategy Board Member of the completed multinational "Alliance for Life Sciences: Closing Research and Innovation Divide in the European Union (Alliance4Life)" Coordination Action Project supported by Horizon 2020 (contract 779303), that included Universities and Research Institutes from nine EU-13 countries and was performed between 1.1.2018. and 31.12.2019 (project volume: EUR 944,652). Also, he is the project manager for the EC tender "European co-ordinated action on

improving justification of computed tomography" (EU-JUST-CT), which began in April 2021 and will conclude in March 2024. He was the principal investigator in three projects funded by the Croatian Ministry of Science and is currently PI of the project "Sonoelastography and MRI in Diagnosis and Treatment of Breast Cancer IP-2016-06-2997" funded by the Croatian Science Foundation (3/2017-3/2021), project volume EUR 133,000.

#### **Memberships and positions in International Associations:**

Since March 2020: Chair of the Board of Directors, European Society of Radiology  
Since October 2019: President-Elect, European Alliance for Medical Radiation Protection Research  
March 2019-March 2020: ESR President, European Society of Radiology  
Since 2017: Board member of ESR  
Since 2011: Executive Council Member of European Society of Radiology  
Since 2013: National delegate in UEMS Radiology Section  
Since 2011: Member of International Society for Strategic Studies in Radiology, since 2015 Executive Board Member  
Since 2005: Fellow, European Society of Urogenital Radiology (ESUR); Member, EUSOBI and CIRSE  
2018-2019: ESR First vice-president  
2017-2018: ESR Second vice-president  
2011-2017 Executive Council Member of ESR  
2014-2017: Chairman of ESR Communications and External Affairs Committee  
2011-2014: Chairman of ESR Finance and Internal Affairs Committee  
2008-2011: Education and Professional Standards committee member of European Federation of Societies for Ultrasound in Medicine and Biology;

#### **Membership and positions in Croatian Professional Associations:**

Since 2013: Vice-president of Croatian Medical Association  
Since 2012: President of Croatian Society of Ultrasound in Medicine and Biology  
Since 2005: Head of the Radiology Advisory Board of the Ministry of Health for National Breast Cancer Screening Programme  
Since 2004: Chair of Advisory Committee of Ministry of Health on Radiology  
2008-2012: President of Croatian Society of Radiology

#### **Professional journals:**

Editor-in-chief, Journal of Ultrasound (SIUMB)  
International Editorial board: Ultraschall in der Medizin – European Journal of Ultrasound  
International Advisory Board: Magyar Radiologia (Hungary), Polish Ultrasound Journal, Ultrasonographia Romana (Romania)  
Editorial Board: Radiology and Oncology (Slovenia)  
Reviewer for European Radiology, Acta Radiologica, European Journal of Radiology, British Journal of Radiology, Croatian Medical Journal, Acta Clinica Croatica.

#### **Appointments at University of Zagreb School of Medicine and at University of Zagreb:**

Since 2015: Vice-Dean for Science, UZSM.  
Since 2014: Member of Council of University of Zagreb  
2013-2020: Ethical Committee Member of University of Zagreb  
Since 2006: Head of English undergraduate curriculum in Radiology  
2015-2021: Chair of Radiology Cathedra.  
2013-2015: Vice president of University Biomedical Board

#### **Publications and Presentations:**

He has published two textbooks, a further 60 chapters in various books, and 120 papers in peer-reviewed magazines. He has presented more than 400 invited lectures at over 280 international meetings.

## **Selected Publications:**

### **Monographic books:**

**Brkljačić B.** DOPLER KRVNIH ŽILA (Doppler of Blood Vessels). Medicinska naklada, Zagreb 2000; 238 pages. (textbook of University of Zagreb) (In Croatian)

**Brkljačić B.** VASKULARNI ULTRAZVUK (Vascular Ultrasound). Medicinska naklada, Zagreb 2010; 361 pages. (textbook of University of Zagreb udžbenik Sveučilišta u Zagrebu) (In Croatian)

### **Selected chapters in textbooks, books and manuals:**

**Brkljačić B,** Pavić L. Ultrasound of the Breast In: Kurjak A, Chervenak F, Eds. Donald School Textbook of Ultrasound in Obstetrics and Gynaecology. Jaypee Brothers Medical Publishers, New Delhi, 2003; 772-794.

**Brkljačić B,** Huzjan-Korunić R, Pavić L. Ultrasound of the Breast In: Kurjak A, Chervenak F, Eds. Donald School Textbook of Ultrasound in Obstetrics and Gynaecology. Jaypee Brothers Medical Publishers, New Delhi, 2007; 950-970.

Coley BD, **Brkljačić B.** Renal Failure and Transplantation (chapter 49). Slovis, Caffey's Pediatric Diagnostic Imaging, 11th Ed., Elsevier, Philadelphia, 2007; pp. 2311-2324.

**Brkljačić B,** Castellani S, Deane C, Dietrich CF. Doppler ultrasound of the aorta, inferior vena cava and visceral arteries. EFSUMB – European Course Book, Dietrich CF (Ed); 2012, pp. 693-714.

**Brkljačić B,** Castellani S, Deane C, Dietrich CF. Doppler ultrasound of renal vessels. EFSUMB – European Course Book, Dietrich CF (Ed); 2012, pp. 715-736.

**Brkljačić B,** Castellani S, Deane C, Dietrich CF. Ultrasound of peripheral veins. EFSUMB – European Course Book, Dietrich CF (Ed); 2012, pp. 737-758.

Deane C, **Brkljačić B,** Castellani S. Ultrasound in vascular disease, Introduction. EFSUMB – European Course Book, Dietrich CF (Ed); 2012, pp. 675-692.

**Brkljačić B,** Castellani S, Brkljačić B, Deane C, Lucente EAM, Dietrich CF. Ultrasound evaluation of cerebrovascular obstructive diseases. EFSUMB – European Course Book, Dietrich CF (Ed); 2012, pp. 759-91.

Sidhu PS, **Brkljačić B,** Derchi LE. Ultrasound of the scrotum. EFSUMB – European Course Book, Dietrich CF (Ed); 2012, pp. 409-454.

Deane C, **Brkljačić B,** Castellani S. Ultrasound in peripheral arterial disease. EFSUMB – European Course Book, Dietrich CF (Ed); 2012, pp. 791-818.

Liguori G, Bucci S, Trombetta C, **Brkljačić B,** Bertolotto M. Imaging in the infertile male-1: Varicocele In: Bertolotto, M; Trombetta, C (Eds). Scrotal Pathology. Springer Verlag, Berlin 2012; pp. 261-274. ISBN 978-3-642-12456-3

**Brkljačić B,** Ivanac G. Diagnostic Imaging Modalities: mammography, ultrasound and magnetic resonance imaging of the breast. In: Beketić-Orešković L, Santek F (Eds). Breast cancer multidisciplinary treatment. Medicinska naklada, Zagreb 2019; pp. 9-25.

### **Selected journal publications**

**Brkljačić B,** Mrzljak V, Drinković I, Soldo D, Sabljarić Matovinović M, Hebrang A. RENAL VASCULAR RESISTANCE IN DIABETIC NEPHROPATHY: DUPLEX DOPPLER US EVALUATION. **Radiology 1994;192:549-554.**

**Brkljačić B,** Sabljarić Matovinović M, Putarek K, Soldo D, Morović-Vergles J, Hauser M. RENAL VASCULAR RESISTANCE IN AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE. EVALUATION WITH COLOR DOPPLER ULTRASOUND. **Acta Radiologica 1997;38:840-6.**

**Brkljačić B,** Sučić M, Božikov V, Hauser M, Hebrang A. TREATMENT OF AUTONOMOUS AND TOXIC THYROID ADENOMAS BY PERCUTANEOUS ULTRASOUND-GUIDED ETHANOL INJECTION. **Acta Radiologica 2001; 42(5):477-481.**

**Brkljačić B,** Cvitković-Kuzmić A, Dmitrović R, Radoš M, Vidjak V. DOPPLER SONOGRAPHIC RENAL RESISTANCE INDEX AND RESISTANCE INDEX RATIO IN CHILDREN AND ADOLESCENTS WITH UNILATERAL HYDRONEPHOSIS. **European Radiology 2002; 12: 2747-2751.**

Ćurić J, Vukelić-Marković M, Marušić P, Hrkać-Pustahija A, **Brkljačić B**. INFLUENCE OF BLADDER DISTENSION ON OPACIFICATION OF URINARY COLLECTING SYSTEM DURING CT UROGRAPHY. **European Radiology** 2008;**18(5): 1065-1070**.

**Brkljačić B**, Čikara I, Ivanac G, Hrkać-Pustahija A, Žic R, Stanec Z. ULTRASOUND-GUIDED BIPOLAR RADIOFREQUENCY ABLATION OF BREAST CANCER IN INOPERABLE PATIENTS: A PILOT STUDY. **Ultraschall Med** 2010;**31:156-162**.

Grgurević I, Čikara I, Horvat J, Lukić IK, Heinzl R, Banić M, Kujundžić M, **Brkljačić B**. NONINVASIVE ASSESSMENT OF LIVER FIBROSIS WITH ACOUSTIC RADIATION FORCE IMPULSE IMAGING; INCREASED LIVER AND SPLENIC STIFFNESS IN PATIENTS WITH LIVER FIBROSIS AND CIRRHOSIS. **Ultraschall Med** 2011;**32(2):160-166**.

Tešić V, Kolarić B, Znaor A, Kusačić-Kuna S, **Brkljačić B**. MAMMOGRAPHIC DENSITY AND ESTIMATION OF BREAST CANCER RISK IN INTERMEDIATE RISK POPULATION. **The Breast Journal** 2013;**19;1:71-78**.

Grgurević I, Puljiz Ž, Brnić D, Bokun T, Heinzl R, Lukić R, Lukšić B, Kujundžić M, **Brkljačić B**. LIVER AND SPLEEN STIFFNESS AND THEIR RATIO ASSESSED BY REAL-TIME TWO DIMENSIONAL SHEAR WAVE ELASTOGRAPHY IN PATIENTS WITH LIVER FIBROSIS AND CIRRHOSIS DUE TO CHRONIC VIRAL HEPATITIS. **European Radiology** 2015;**25(11): 3214-21**.

Džoić M, Ivanac G, Kelava T, **Brkljačić B**. ELASTOGRAPHIC FEATURES OF TRIPLE NEGATIVE BREAST CANCERS. **European Radiology** 2016;**26(4):1090-1097**.

Grgurević I, Bokun T, Salkić NN, **Brkljačić B**, Vukelić-Marković M, Štoos-Veić T, Rakić M, Filipec-Kanižaj T, Berzigotti A. LIVER ELASTOGRAPHY MALIGNANCY PREDICTION SCORE FOR NONINVASIVE CHARACTERIZATION OF FOCAL LIVER LESIONS. **Liver Int** 2018;**34(10):1055-1063**.

Radović N, Ivanac G, Divjak E, Biondić I, Bulum A, **Brkljačić B**. EVALUATION OF BREAST CANCER MORPHOLOGY USING DIFFUSION-WEIGHTED AND DYNAMIC CONTRAST ENHANCED MRI: INTERMETHOD AND INTEROBSERVER AGREEMENT. **J Mag Res Imag** 2019;**49(5):1381-90**.

Divjak E, Ivanac G, Radović N, Biondić I, Sović S, Bahnik V, **Brkljačić B**. SECOND-LOOK ULTRASOUND USING SHEAR-WAVE ELASTOGRAPHY IN MRI SUSPECTED LOCOREGIONAL RECURRENCE OF BREAST CARCINOMA. **Ultraschall in Med** 2020 Jul 14; doi.10.1055/a-1178-0523 PMID 32663880

Nayahangan LJ, Albrecht-Beste E, Konge L, **Brkljačić B**, Catalano C, Ertl-Wagner B, Riklund K, Bachmann Nielsen M. CONSENSUS ON TECHNICAL PROCEDURES IN RADIOLOGY TO INCLUDE IN SIMULATION-BASED TRAINING FOR RESIDENTS: A EUROPEAN-WIDE NEEDS ASSESSMENT. **European Radiology** 2020 Jul 28. doi. 10.1007/s00330-020-07077-0 PMID: 32725331

Blazić I, **Brkljačić B**, Frija G. THE USE OF IMAGING IN COVID-19 – RESULTS OF A GLOBAL SURVEY BY THE INTERNATIONAL SOCIETY OF RADIOLOGY. **European Radiology** 2020 (in press)

**Fields:**

Breast imaging, vascular and interventional radiology, quality assurance (focus imaging referral guidelines, screening)