



Luigi A. Solbiati

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Biography

Luigi Alessandro Solbiati was born in Busto Arsizio (Milan area) in 1952, graduated cum laude from the University of Milan in 1977 and received his postgraduate degree in Radiology from the School of Radiology of Milan University in 1981. He was resident at the Department of Ultrasound of the Royal Marsden Hospital in Sutton (UK) with Prof. Davide Cosgrove in 1981 and at the Department of Medical Physics of the Hospital of Bristol (UK) in 1982. In his clinical activity, he had been working for 35 years at the General Hospital of Busto Arsizio, from the initial role of Assistant to that of Chairman of the Department of Diagnostic Imaging (2002-2011) and Oncology (2012-2015) and Head of the Division of Interventional Oncologic Radiology (2010-2015).

In his academic career, since 1988 he had been appointed as Contract Professor of “Techniques and Methods of Diagnostic Imaging” at the School of Radiology of the University of Milan. In 2014 he received the Academic Qualification of Full Professor of Radiology. In 2015 he moved to Humanitas University at Pieve Emanuele (Milan) and Humanitas Research Hospital at Rozzano (Milan), where he is currently Professor of Radiology and Consultant of Interventional Radiology, respectively.

He was Board Member of the Italian Society of Ultrasound in Medicine and Biology (1985-1991), President of the Section of Ultrasound of the Italian Society of Radiology (SIRM) (2006-2010), Member of the Executive Council of European Society of Radiology (ESR) (2008-2010) and Vice-President of SIRM (2008-2010).

His main fields of interest have always been interventional procedures in oncologic and non-oncologic diseases (particularly percutaneous image-guided thermal ablation), imaging of the neck, sonography and contrast enhanced sonography. After being one of the pioneers of ultrasound-guided aspiration biopsies (1979), in 1982 he performed what is considered the very

first ablation ever performed, i.e. the ultrasound-guided percutaneous ethanol injection (PEI) of a large inoperable parathyroid adenoma. He was the pioneer of PEI of HCCs (1985) and radiofrequency ablation (RFA) with cool-tip electrodes of HCCs and liver metastases (1995), together with the group of Dr. Tito Livraghi (Hospital of Vimercate, Milan area). Subsequently he was one of the first users in the world of high-power microwave ablation (MWA) of solid tumors (2009) and of image fusion of real-time US with CT, MRI and PET for the guidance of interventional procedures (2003).

With his team he has one of the largest experiences in the world in RFA and MWA of liver malignancies and renal cell carcinomas, but also in laser and RF ablation of thyroid and parathyroid benign tumors, accounting for more than 6,000 patients treated.

In 2018 he was the first clinical user worldwide of a novel independent software platform for volumetric assessment of ablation completeness (ablation confirmation), and in 2019 he was the first clinical user of a platform of augmented reality for the guidance of thermal ablations of liver malignancies.

Research and Publications

He published 187 original articles in peer-reviewed journals as of yet, 158 of them indexed in PubMed.

His Google-scholar H-index is currently 66, his impact factor by far exceeds 450 and his publications had 28,595 citations (Google Scholar). He holds the 2nd place in the world ranking of the Authors of the 100 papers of international radiological literature published between 1945 and 2012 with the largest number of citations (American Journal of Roentgenology 2013; 201: 471-481).

In addition, he published 62 chapters in textbooks of Radiology, Interventional Radiology and Oncology,

and was Editor and Author of 12 books on small-parts sonography, contrast-enhanced sonography and ablative therapies, 5 of them for international publishers in English.

He gave 642 presentations at Meetings, Congresses and Courses in 23 different countries and was

Invited Speaker at 245 International Congresses and Courses. He was Guest Lecturer at the Universities of San Diego, Zurich, Beijing, Hong Kong, New Delhi, Cairo, Vienna, Moscow, Chelyabinsk (Russia), Madison (USA), Guangzhou (China), and at the Mayo Clinic, Rochester (USA).

In 2006 he was the Chairman of the 1st World Conference on Interventional Oncology in Cernobbio (Lake Como).
