

## **Dr Tristan Zand**

### **Radiologue et Radiopédiatre FMH**

#### **Diplômes et formations**

- 1997: Federal Diploma in Medicine, including medical-informatics (creation of the first Health on the Net hon.ch CMS), Geneva University, Switzerland
- 1998-1999: European Science Society and Technology masters program at the Federal Polytechnical School in Lausanne (EPFL), Switzerland and Maastricht University, Netherlands
- 2008: Radiology federal specialization certification (FMH), University of Geneva, Switzerland
- 2008 : Pediatric radiology federal sub-specialization certification (FMH), University of Geneva, Switzerland.

#### **Activités professionnelles**

- 2006 – 2012 : Chef de Clinique (2007-2012), Médecin Moniteur (2006-2007). Geneva, Switzerland. Clinical and scientific work in the region's reference pediatric hospital, and national center for hepatic grafts. In charge of CT scan and image post-processing protocols, in order to enhance diagnostic value of exams and diminish radiation exposure, as well as research on advanced reconstructions for multimodal imagery. As senior pediatric radiologist, in charge of junior training
- 2005-2006: Radiologist, Pourtalès State Hospital, Neuchâtel, Switzerland Internship. Regional hospital, generalist radiologist experience (in all modalities and interventional)
- 2002-2005: Radiologist, Geneva State University Hospital, Switzerland Internship in all modalities and interventional radiology. Included supervision and follow-up of previous projects started in the Medical Informatics division
- 2001-2002: Physician in Medical Informatics , Geneva State University Hospital, Switzerland
- Expert in multimedia and medical informatics. Engineering of an open-source platform for Internet/Intranet in Radiology/Medicine. Creation of a nation-wide online certification system for Radiology. Development of teaching material for the Swiss Virtual Campus. Emphasis on experimenting with web-based services and implementing open-source / open-standards towards the creation of an online/offline 'web-operating' system for both desktop and handheld systems. Content creation for the online course in medical informatics intended for medical students (Swiss Virtual Campus).

#### **Participations actives aux congrès/cours. Publications et présentations**

- May 2016 : The seatbelt syndrome - do we have a Chance? A report of three cases with review of literature.  
Ebehardt CS, Zand T, Ceroni D, Wildhaber BE, La Scala G  
Pediatric Emergency Care. 2016 May; 32(5):318-22. Scientific Article
- 2014 : Lung volume assessments in normal and surfactant depleted lungs: agreement between bedside techniques and CT imaging  
Albu G, Petak F, Zand T, Hallback M, Wallin M, Habre W  
BMC Anesthesiology. 2014, vol. 14, p. 64 Scientific Article
- Jun-2014 : Occupational and patient exposure as well as image quality for full spine examinations with the EOS imaging system.  
Damet J, Fournier P, Monnin P, Sans-Merce M, Ceroni D, Zand T, Verdun FR, Baechler S.  
Med Phys. 2014 Jun; 41(6):063901. Scientific Article
- Nov-2013 : CT en pédiatrie : revue des techniques d'optimisation des doses (Radioprotection en Radiologie : progrès technologiques et exposition du patient) CHUV, Suisse - Présentation du Dr Tristan Zand, Réseau Radiologique Romand (3R)

- Oct-2012 : Pediatric Osteo-articular MRI : protocols and clinical cases (IRM Ostéo-articulaire pédiatrique : protocoles et cas cliniques) Journées Romandes d'IRM, Haute Ecole de Santé, Switzerland, oral presentation. Tristan Zand, Geneva University Hospitals
- Sep-2012 : Children and teenager scoliosis : EOS Imaging (Scoliose chez l'enfant et l'adolescent : Imagerie EOS) Formation Médicale Continue, Geneva University Hospitals, Switzerland, oral presentation. Tristan Zand, Geneva University Hospitals
- Mai-2012 : CT-scan irradiation: protecting patients by means of enhanced medical practice International Congress of the International Radiation Protection Association (IR-PA13), Glasgow, United Kingdom, poster presentation. Zand Tristan, Pugin Vicent. Geneva Children's Hospital
- Juin-2011 : Pediatric CT and dose limitation (CT pédiatrique et limitation des doses) Journées Romandes CT, EPFL, Lausanne, Switzerland , course and workshop. Zand Tristan, Vincent Pugin. Geneva Children's Hospital. ASTRM Technologists' national education program
- Juin-2011 : Emergency low-dose pediatric CT-scan: single acquisition with bi-phasic iodinated contrast injection International Pediatric Radiology congress (IPR), London, United Kingdom, poster presentation. Tristan Zand, Laura Merlini, Mehrak Anooshiravani, Aikaterini Ka-navaki, Laurent Ambrosetti, Sylviane Hanquinet, Geneva University Hospitals
- Juin-2011 : EOS integration at the Geneva Children Hospital: 1 year experience International Pediatric Radiology congress (IPR), London, United Kingdom, oral presentation. Tristan Zand, Geneva University Hospitals
- Juin-2011 : Pediatric CT - current state and experience for children computed tomography (CT scan pédiatrique - expérience et état actuel du CT scan chez l'enfant) Lundi de l'Image, Geneva University Hospitals, Switzerland, oral presentation. Tristan Zand, Geneva University Hospitals
- Jan-2010 : Children's knee imaging exploration strategies (Les stratégies d'exploration du genou chez l'enfant) 32nd Journées de Trousseau, Paris, France, ourse/workshops. Ferey Solène, Zand Tristan, Raphaël Vialle. Hôpital des Grangettes, Geneva University Hospitals, Pediatric Hospital Trousseau Paris
- Juin-2009 : Thoraco-abdominal CT - Single acquisition with biphasic intravascular injection of iodinated contrast European Society of Pediatric Radiology congress (ESPR). Istanbul, Turkey, oral presentation. Zand Tristan, Spadola Luca, Anooshiravani Mehrak, Merlini Laura, Ferey Solène, Hanquinet Sylviane. Geneva University Hospitals
- Juin-2009 : Thoraco-abdominal pediatric CT scan parameter optimization for best dose/image-quality ratio Swiss National Congress of Radiology. Geneva, Switzerland, oral presentation. Zand Tristan, Spadola Luca, Anooshiravani Mehrak, Merlini Laura, Ferey Solène, Hanquinet Sylviane. Geneva University Hospitals
- Dec-2008 : Fusion imaging in pediatric radiology (La fusion en imagerie pédiatrique) Lundi de l'Image, Geneva University Hospitals, Switzerland, oral presentation. Tristan Zand, Geneva University Hospitals
- Juin-2008 : MRI / Rx fusion : step-by-step method and examples of a new imaging technique European Society of Pediatric Radiology congress (ESPR). Edinburgh, Scotland, poster presentation. Zand Tristan, Ferey Solène, Spadola Luca, Merlini Laura, Breguet Romain, Anooshiravani Mehrak, Hanquinet Sylviane. Geneva University Hospitals
- Juin 2008 : MRI / Rx fusion : illustration in children osteo-articular pathology Swiss National Congress of Radiology. St Gallen, Switzerland, poster presentation. Zand Tristan, Ferey Solène, Spadola Luca, Merlini Laura, Sayegh-Martin Yasmine, Anooshiravani Mehrak, Hanquinet Sylviane. Geneva University Hospitals
- Mai-2008 : Pediatric CT - specific approach of radiation and image quality in children (CT scan pédiatrique - approche spécifique de l'irradiation et de la qualité d'image chez l'enfant) Lundi de l'Image, Geneva University Hospitals, Switzerland, oral presentation. Tristan Zand, Geneva University Hospitals
- Sep-2007 : MRI fusion on standard radiographic examinations : illustration in children osteo-articular pathology (Fusion de l'IRM sur les clichés standards : illustration dans la pathologie ostéo-articulaire) French Society of Pediatric and Prenatal Imaging Congress. Pau, France, oral presentation. Zand Tristan, Ferey Solène, Spadola Luca, Merlini Laura, Anoshiravani Mehrak, Hanquinet Sylviane. Geneva University Hospitals
- Juin-2007 : Pediatric radiology emergency multimedia files Swiss National Congress of Radiology. Basel, Switzerland, poster presentation. Zand Tristan, Spadola Luca, Merlini Laura, Anooshiravani Mehrak, Sayegh-Martin Yasmine, Ferey Solène, Hanquinet Sylviane. Geneva University Hospitals

- Oct-2005 : BolinOS - e-learning tools as an extension of open source medical content online publication Swiss Medical Informatics Journal (SMI #56 6-05), print publication. Tristan Zand, Jérôme Billet, Christian Lovis. Geneva University Hospitals
- Juil-2005 : Online radiological examination : open-source tool for federal certification Swiss Medical Informatics Journal (SMI #55 5-05), print publication. Jérôme Billet, Tristan Zand, Christian Lovis. Geneva University Hospitals
- Juil-2004 : Description of a collaborative multimedia authoring system for a mobile platform (Description d'un système d'authoring multimédia collaboratif pour plateforme mobile) Swiss Medical Informatics Journal (SMI #53 04), print publication. Mathias Tschopp, Jérôme Billet, Tristan Zand, Antoine Geissbühler.
- May-2004 : Online radiological examination - three years using the web and open-source for Swiss radiological FMH examination Swiss National Congress of Radiology. Interlaken, Switzerland, poster presentation. Zand Tristan, Billet Jérôme, Geissbühler Antoine, Vallée Jean-Paul, Duewell Stefan, Hodler Jürg, Terrier François. Geneva University Hospitals, State Hospital Frauenfeld, Balgrist University Clinic
- Nov-2003 : Topographic imaging of orbital pathology Radiologist (vol. 10 #6 p.289-308), print publication. Spadola Luca, Somon Thierry, Zand Tristan, Ruefenacht Daniel, Delavelle Jacqueline. Geneva University Hospitals
- Juin-2003 : BolinOS IntRad / multimedia authoring platform and web operating system for Internet / Radiology - to build and use an open-source platform for the network distribution and CD-ROM publication of radiological contents, databases, and applications Swiss National Congress of Radiology. Lucerne, Switzerland, poster presentation. Zand Tristan, Billet Jérôme, Spadola Luca, Girard Christian, Geissbühler Antoine, Slosman Daniel, Vallée Jean-Paul, Terrier François. Geneva University Hospitals.