

CURRICULUM VITAE

Christophe Bonvin, MD, MSc

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PROFESSIONAL

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ACTUAL POSITION

Director of Stroke Unit Valais and Neurovascular Laboratory, Senior attending, Department of Neurology, Hôpital du Valais - Sion, CH, (Prof. J. Ghika, head of service)

Senior Consultant and Research activities at CHUV, Lausanne, and HUG, Genève, CH

POSTGRADUATE EDUCATION

- 2009 – today Senior attending, Department of Neurology, Hôpital du Valais - Sion, CH, (Prof. J. Ghika, head of service)
- 2012 International certification in neurosonology (European Society of Neurosonology and Cerebral Hemodynamics)
- 2010 FMH Neurology speciality certification (Swiss Board of Neurology)
- 2007 – 2009 European Master of Science (MSc) in Stroke Medicine, Donau Universität Krems, Austria, Prof. W. Hacke, W.-D. Heiss and M. Brainin
Master thesis: *“Hemodynamic and embolic characteristics of carotid stenosis: correlation with ischemic lesion patterns on MRI”*
- 2008 – 2011 Clinical research fellowship on imaging of vulnerable carotid plaque and acute stroke treatment, University Hospitals of Geneva, CH, Dr. R. Sztajzel
- 2008 Neurosonology and Cerebrovascular Diseases subspecialty certification (Swiss Society of Clinical Neurophysiology)
- 2002 – 2007 Resident (Neurology), including 1 year of Neurosonology, University Hospitals of Geneva, CH, Prof. T. Landis, (5 ½ years)
- 2001 – 2002 Intern (Internal medicine), Hospital of Sion, CH, Dr. E. Blanc, (1 year)
- 2000 – 2001 Intern (Surgery), Hospital of Monthey, CH, Dr. M. Rigo, (6 months)

EDUCATION

- 1999 Doctor of Medicine, University of Lausanne, CH
- 1993 Swiss Federal Maturity (Science and Philosophy), Sion, CH
- Languages French (native), English (business fluent), German (proficient), Italian (intermediate)
- Informatics Advanced knowledge and database management
- Misc. Piano pre-professional certificate (Swiss Society of Musical Pedagogy, 1992)

P R O F E S S I O N A L E X P E R I E N C E

- 2010 – today Design, planning, operation and certification of the Stroke Unit Valais, neurovascular laboratory and multidisciplinary cerebrovascular consultation, Hôpital du Valais – Sion, CH, Prof. J. Ghika
- 2013 – today Local principal investigator (PI) of different studies national and international trials : ICSS, SOCRATES, ELAN, TREAT-MS, TiMeS, ESTREL
- 2008 1 year (50%) of Interventional Neuroradiology, University Hospitals of Geneva, CH, Prof. D. Rüfenacht
- 2006 – 2007 1 year of Clinical Neurology in an acute Stroke Unit, University Hospitals of Geneva, CH, Dr. R. Sztajzel
- 2005 – 2006 1 year of Clinical Neurophysiology (Neurosonology), University Hospitals of Geneva, CH, Dr. R. Sztajzel
- 2006 Medical Statistics Course, University Hospitals of Geneva, CH, B. Mermillod, PhD
- 2004 – 2011 Local co-investigator of the International Carotid Stenting Study (ICSS) for the University Hospitals of Geneva, CH
- 2000 – 2016 Swiss Army: head of battalion's staff as Major (operations S3 and medical). Advanced Cardiac Life Support (ACLS) certificate
- 1998 Clinical practice in Neurology and Neurosurgery (4 months), Hôpital de l'Enfant-Jésus (affilié UNI Laval), Québec, Canada

P U B L I C A T I O N S

1. Jankovic, J., Rey Bataillard, V., Mercier, N., Bonvin, C., & Michel, P. Acute ischemic myelopathy treated with intravenous thrombolysis: Four new cases and literature review. International Journal of Stroke 2019; Epub ahead of print Mai 2019, doi: 10.1177/1747493019851289.
2. Doig D, Turner EL, Dobson J, Featherstone RL, de Borst GJ, Stansby G, Beard JD, Engelter ST, Richards T, Brown MM; ICSS Investigators: Bonvin C. Risk Factors For Stroke, Myocardial Infarction, or Death Following Carotid Endarterectomy: Results From the International Carotid Stenting Study. Eur J Vasc Endovasc Surg 2015;50:688-694.
3. Müller H, Fisch L, Viacoz A, Bonvin C., Lovblad K, Cuvinciu V, Sztajzel RF. Embolic and Hemodynamic Transcranial Doppler Characteristics in Patients with Acute Ischemic Stroke due to Carotid Occlusive Disease: Contribution to the Different Infarct Patterns on MRI. J Neuroimaging 2015;25:766-775.
4. Steffel J, Wuillemin W, Bonvin C., Auricchio A, Fontana P, Mach F, Meier B. Consensus sur l'utilisation de l'apixaban pour la prévention de l'accident vasculaire cérébral et des événements emboliques chez les patients avec fibrillation auriculaire non valvulaire. Lead Opin Int Med 2015 March. *
5. Bonati LH, Dobson J, Featherstone RL, Ederle J, van der Worp HB, de Borst GJ, Mali WP, Beard JD, Cleveland T, Engelter ST, Lyrer PA, Ford GA, Dorman PJ, Brown MM; ICSS investigators: Bonvin C. Long-term outcomes after stenting versus endarterectomy for treatment of symptomatic carotid stenosis: the International Carotid Stenting Study (ICSS) randomised trial. Lancet 2015;385:529-538
6. Muller H, Viacoz A, Fisch L, Bonvin C., Lovblad K, Ratib O, Lalive P, Pagano S, Vuilleumier N, Willi J and Sztajzel R, 18FDG-PET-CT: An imaging biomarker of high-risk carotid plaques. Correlation to symptoms and micro-embolic signals. Stroke 2014;45:3561-3566.
7. Bonvin C. Compte rendu du congrès JNLF 2014 (SEP). msflash 2014;2. *
8. Muller H F, Viacoz A, Kuzmanovic I, Bonvin C., Burkhardt K, Bochaton-Piallat M L and Sztajzel R, Contrast-enhanced ultrasound imaging of carotid plaque neo-vascularization: accuracy of visual analysis. Ultrasound in medicine & biology 2014;40:18-24.
9. Mach F, Bonvin C., Zimmermann M, Meier B and Righini M. Les experts ont la parole. L'inhibiteur du facteur Xa par voie orale apixaban, Efficace dans la prophylaxie de l'AVC - avec des hémorragies moins sévères. Lead Opin 2013 December. *
10. Ederle J, Davagnanam I, van der Worp HB, Venables GS, Lyrer PA, Featherstone RL, Brown MM, Jäger HR; ICSS investigators: Bonvin C. Effect of white-matter lesions on the risk of periprocedural stroke after

- carotid artery stenting versus endarterectomy in the International Carotid Stenting Study (ICSS): a prespecified analysis of data from a randomised trial. *Lancet Neurol* 2013;12:866-872.
11. Momjian-Mayor I, Kuzmanovic I, Momjian S, Bonvin C, Albanese S, Bichsel D, Comelli M, Pereira V M, Lovblad K O and Sztajzel R F, Accuracy of a novel risk index combining degree of stenosis of the carotid artery and plaque surface echogenicity. *Stroke* 2012;43:1260-1265.
 12. Viallon M, Altrichter S, Pereira V M, Nguyen D, Sekoranja L, Federspiel A, Kulcsar Z, Sztajzel R, Ouared R, Bonvin C, Pfeuffer J and Lovblad K O, Combined Use of Pulsed Arterial Spin-Labeling and Susceptibility-Weighted Imaging in Stroke at 3T. *Eur Neurol* 2010;64:286-296.
 13. Tarr R, Hsu D, Kulcsar Z, Bonvin C, Rufenacht D, Alfke K, Stingele R, Jansen O, Frei D, Bellon R, Madison M, Struffert T, Dorfler A, Grunwald I Q, Reith W and Haass A, The POST trial: initial post-market experience of the Penumbra system: revascularization of large vessel occlusion in acute ischemic stroke in the United States and Europe. *Journal of NeuroInterventional Surgery* 2010;2:341-344.
 14. Bonvin C, Momjian-Mayor I, Sekoranja L, Lovblad K O, Altrichter S, Yilmaz H, Pereira V M, Loulidi J, Comelli M, Burkhard P R and Sztajzel R F, Stroke severity and residual flow determined by transcranial colour-coded ultrasound (TCCD) predict recanalization and clinical outcome during thrombolysis. *J Neurol Sci* 2010;296:96-100.
 15. Payer M, Sottas C and Bonvin C, Superficial siderosis of the central nervous system: secondary progression despite successful surgical treatment, mimicking amyotrophic lateral sclerosis. Case report and review. *Acta Neurochir (Wien)* 2010;152:1411-1416.
 16. Kulcsar Z, Bonvin C, Pereira V M, Altrichter S, Yilmaz H, Lovblad K O, Sztajzel R and Rufenacht D A, Penumbra System: A Novel Mechanical Thrombectomy Device for Large-Vessel Occlusions in Acute Stroke. *AJNR Am J Neuroradiol* 2010;31:628-633.
 17. Kulcsar Z, Bonvin C, Lovblad K O, Gory B, Yilmaz H, Sztajzel R and Rufenacht D, Use of the Enterprise Intracranial Stent for Revascularization of Large Vessel Occlusions in Acute Stroke. *Clinical Neuroradiology* 2010;20:54-60.
 18. Ederle J, Dobson J, Featherstone RL, Bonati LH, van der Worp HB, de Borst GJ, Lo TH, Gaines P, Dorman PJ, Macdonald S, Lyrer PA, Hendriks JM, McCollum C, Nederkoorn PJ, Brown MM. International Carotid Stenting Study investigators: Bonvin C. Carotid artery stenting compared with endarterectomy in patients with symptomatic carotid stenosis (International Carotid Stenting Study): an interim analysis of a randomised controlled trial. *Lancet* 2010;375:985-997.
 19. Kulcsar Z, Yilmaz H, Bonvin C, Lovblad K O and Rufenacht D A, Multiple Coaxial Catheter System for Reliable Access in Interventional Stroke Therapy. *Cardiovasc Intervent Radiol* 2010;33:1205-1209.
 20. Bonvini R F, Sztajzel R, Dorsaz P A, Righini M, Bonvin C, Alibegovic J, Sigwart U, Camenzind E, Verin V and Sztajzel J, Incidence of atrial fibrillation after percutaneous closure of patent foramen ovale and small atrial septal defects in patients presenting with cryptogenic stroke. *Int J Stroke* 2010;5:4-9.
 21. Knoepfli A S, Sekoranja L, Bonvin C, Delavelle J, Kulcsar Z, Rufenacht D, Yilmaz H, Sztajzel R, Altrichter S and Lovblad K O, Evaluation of perfusion CT and TIBI grade in acute stroke for predicting thrombolysis benefit and clinical outcome. *J Neuroradiol* 2009;36:131-7.
 22. Bonvin C and Sztajzel R, "High risk" carotid plaque diagnosis: to determine the best therapeutic option for each patient. *Cardiovasc* 2008;7:10-15. *
 23. Bonvin C, Horvath J, Christe B, Landis T and Burkhard P R, Compulsive singing: another aspect of punning in Parkinson's disease. *Ann Neurol* 2007;62:525-8.

* Non peer review

PROCEEDING, CONFERENCES, CHAIRS & POSTERS

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| 2019 | <ul style="list-style-type: none"> - Canal 9. Emission "Humain passionnément" 29.03.2019. AVC, Les Masses, CH - Conférence publique AVC et HTA. Fondation Suisse de Cardiologie, Sion, CH - Brain week. Sion, CH - Société Suisse de la Sclérose en Plaque. Thérapie de reconstitution immune, Martigny, CH - Symposium cérébro-lésé (AVC), CRR, Sion, CH - Nouveautés SEP, Sion, CH - Migraine et anti-CGRP, Sion, CH - Rotary Club. invited speaker. Filère AVC Valais, Sion, CH |
| 2018 | <ul style="list-style-type: none"> - Berner Klinik. invited speaker. Update AVC, Montana, CH - Rotary Club. invited speaker. AVC nouveautés, Sion, CH - Brain week. Sion, CH - Conférence publique. AVC progrès et nouveautés. Hérémece, CH - Forum "Elle". Femme et AVC, Martigny, CH - Symposium cérébro-lésé (AVC), CRR, Sion, CH |

- 2017 - Brain week. Sion, CH
- Symposium cérébro-lésé (AVC), CRR, Sion, CH
- Conférence publique AVC et FA, Fondation Suisse de Cardiologie, Sion, CH
- 2016 - ESOC: 2nd. European Stroke Organisation Conference, Barcelona, ES
- Symposium cérébro-lésé (AVC), CRR, Sion, CH
- Brain week. Sion, CH
- 2015 - ESOC: 1st. European Stroke Organisation Conference, Glasgow, UK
- ESO ESMINT ESNR stroke winter school, Bern, CH
- SSS: 18th Swiss Stroke Society Meeting, Genève, CH
- Brain week. Sion, CH
- 2014 - ESC: XXIII. European Stroke Conference, Nice, FR
- Stroke symposium, Bern, CH
- SNS: Swiss Neurological Society, annual meeting, Interlaken, CH
- Conférence publique. Fondation Suisse de Cardiologie, Sion, CH
- 2013 - ESC: XXII. European Stroke Conference, London, UK
- Quadrimed 2013, 4 clinics annual meeting, Montana, CH
- SSS: 17th Swiss Stroke Society Meeting, St-Gallen, CH
- 2012 - ESC: XXI. European Stroke Conference, Lisboa, PT
- ESNCH: 17th Meeting of the European Society of Neurosonology and Cerebral Hemodynamics, Venise, IT
- SSS: 16th Swiss Stroke Society Meeting, Zürich, CH
- 2011 - ESC: XX. European Stroke Conference, Hamburg, DE
- ESNCH: 16th Meeting of the European Society of Neurosonology and Cerebral Hemodynamics, München, DE
- SNS: Swiss Neurological Society, annual meeting, Luzern, Switzerland
- 2010 - ISC: International Stroke Conference, San Antonio, TX, USA
- WSC: World Stroke Congress. SSS: 14th Swiss Stroke Society Meeting, Lausanne, CH
- ESC: XIX. European Stroke Conference, Barcelona, ES
- 2009 - ABC-WIN: Anatomy Biology Clinical and Working Group International in Neuroradiology Meeting, Val d'Isère, FR
- SSS: 13th Swiss Stroke Society Meeting, Basel, CH
- ISC: International Stroke Conference, San Diego, CA, USA
- Neurology & Neuroradiology Penumbra meeting, CHU Bordeaux, FR
- ICSS: International Carotid Stenting Study Investigator's Meeting, London, UK
- Neurology & Neuroradiology Penumbra meeting, CHU Pitié-Salpêtrière, Paris, FR
- ESC: XVIII. European Stroke Conference, Stockholm, SE
- ESNR: European Society of Neuroradiology Annual Meeting, Athens, GR
- WFITN: 10th World Federation of Interventional Therapeutic Neuroradiology, Montreal, CA
- 2008 - SSS: 12th Swiss Stroke Society Meeting, Aarau, CH
- SNS (Centennial Anniversary): Swiss Neurological Society Meeting, Montreux, CH
- ESC: XVII. European Stroke Conference, Nice, FR
- ICSS: International Carotid Stenting Study Investigator's Meeting, London, UK
- Swiss Advisory Board on Thrombolysis - Boehringer-Ingelheim, Bern, CH
- ESNR: 33rd European Society of Neuroradiology Annual Meeting, Cracow, PL
- 2007 - ESC: XVI. European Stroke Conference, Glasgow, UK
- ICSS: International Carotid Stenting Study Investigator's Meeting, Basel, CH
- 2006 - ESNCH: 11th Meeting of the European Society of Neurosonology and Cerebral Hemodynamics, Düsseldorf, DE
- ENS: 16th Meeting of the European Neurological Society, Lausanne, CH
- ICSS: International Carotid Stenting Study Investigator's Meeting, London, UK
- Ultraschall, Graz, AT
- 2005 - SNS: Swiss Neurological Society, annual meeting, Bienne, Switzerland

INDUSTRY ADVISORY AND EXPERT BOARDS

Many Pharmaceutical companies & Industries in the field of cerebrovascular diseases, headache, neuroimmunology, radiology.

R E V I E W E R

Stroke, American Heart Association, Lippincott Williams & Wilkins, USA
Circulation, American Heart Association, Lippincott Williams & Wilkins, USA
Frontiers in Neurology, Stroke, Frontiers Editorial Office, Switzerland
Cerebrovascular Diseases, Karger AG, Switzerland

F U N D I N G & G R A N T S

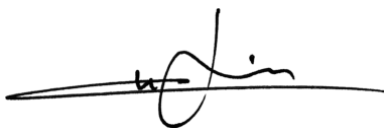
- 2010 – 2019 Research grants, advisory boards, honoraria & travel expenses supported by different pharmaceutical companies & industry in the field of cerebrovascular diseases, headache, neuroimmunology, radiology.
- 2008 Swiss Heart Foundation. *Stent-assisted revascularization of acute stroke with proximal intracranial anterior circulation occlusion: a randomized pilot study*. Principal receiver: Dr. R. Sztajzel. CHF 75'000.-
- 2007 Clinical Research Center, University Hospitals of Geneva. *Usefulness of PET-CT in the diagnosis and follow-up of patients with “vulnerable” carotid plaques: correlation to clinical symptoms, to the presence of asymptomatic micro-embolic signals detected on transcranial Doppler and to plasmatic markers of inflammation*. Principal receiver: Dr. R.Sztajzel. CHF 529'000.-
- 2007 Swiss Heart Foundation. *Contrast enhanced ultrasound imaging of carotid plaque neovascularisation: correlation with histopathological (endarterectomy) specimens*. Principal receiver: Dr. R.Sztajzel. CHF 64'500.-

C O U R S E T A U G H T

Institution conferences (20hr/y)
Neurology post-graduate weekly meeting (15hr/y)
Neurosonology course (20h/y)
Neurology resident course (20hr/y)
Neurology journal club (15hr/y)
Emergency and Stroke unit nurse training program (20h/y)
Public and Media conferences and talks

M E M B E R S H I P S

Swiss Society of Neurology
Swiss Stroke Society
Swiss Society of Clinical Neurophysiology
European Stroke Organisation
World Stroke Organization
European Society of Neurosonology and Cerebral Hemodynamics



Updated 30/09/2019