

Curriculum Vitae

Vitor Mendes Pereira MD MSc



A. Biographical Information

1. Personal and Contact Information

Date of Birth: 7th of August
Place of Birth: São Luís, Maranhão, Brazil
Citizenship: Brazilian
Marital Status: Married, 3 children (Alice, Pedro and Sarah)
Language Skills: Portuguese, French, English and Spanish
Personal Address: 63 Alexandra Wood,
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2. Current Position

August 2014 – Present
Staff Physician and Associate Professor of
Radiology and Surgery
University of Toronto
Toronto Western Hospital & University
Health Network
Toronto, ON
Canada
Dec 2013 – present
Privat-Docent
University of Geneva, Switzerland

3. Education

High school 1992-1995	Federal Technological Educational Center (CEFET - Centro Federal de Educação Tecnológica), Field: Eletronic
Medical School 1996-2002	Federal University of Maranhão, Medical School, Sao Luis, Brazil
Residency 02.2002 – 01.2006	Training Program in Neurosurgery, Clinical University Hospital of State University of São Paulo, Brazil
Specialist Certificate March 2007	Specialist Certificate in Neurosurgery (Brazilian Medical Association/Brazilian Society of Neurosurgery)
Clinical Fellowship 11.2006 – 10.2007	Interventional Neuroradiology, CHU Bicêtre, Paris - France (Prof. Pierre Lasjaunias)
11.2007 –10.2008	Interventional Neuroradiology, Rothschild Foundation, Paris - France (Prof. Jacques Moret)
Specialist Certificate August 2008	Certificate in Neuroradiology (Brazilian Medical Association/Brazilian College of Radiology)
September 2008	European Validation of the Medical Diploma, University of Porto, Portugal
July 2014	College of Physician ans Surgeons of Ontario, Ontario, Canada

3a Post Graduate Education

January 2002	Doctorate in Medicine – Federal University of Maranhao, Brazil (Thesis: Endoscopic III ventriculostomy for obstructive hydrocephalus related to brain tumors)
November 2004 – April 2007	International Master Degree in Neurovascular Diseases, Faculté de Médecine de l'Université Paris XI, France (Thesis: Vasculopathy of Neurofibromatosis type 1)
Nov 2007 – Nov 2008	Master Degree (MSc) in Sciences (Neurosciences) Faculté de Médecine de l'Université Paris XII - France (Thesis: Computational Flow Dynamics of Intracranial Aneurysms: patient specific modeling)
July – August 2013	Program of Clinical Effectiveness. Harvard School of Public Health, Boston, USA

4. Previous Appointments

01.02.2006 – 31.10.2006	Staff Physician in Neurosurgery – Institute of Neurosurgery, Sao Luis, Maranhao, Brazil
01.11.2006 – 31.10.2007	Associate Physician, Interventional Neuroradiology, CHU Bicêtre, Paris - France
01.11.2007 – 01.10.2008	Associate Physician, Interventional Neuroradiology, Rothschild Foundation, Paris - France
03.11.2008 – 31.03.2009	Staff Physician, Interventional Neuroradiology Division, Service of Neuroradiology, University Hospitals of Geneva, Switzerland

01.04.2009 – July 2014

Director of Interventional Neuroradiology
Division (Médecin Adjoint Agrégé
Responsable d'Unité), Service of
Neuroradiology, University Hospitals of
Geneva, Switzerland

5. Scientific awards

- **Research- Scholarship** of the National Council of Technological and Scientific Development (CNPq) – (USD 35.000) “Immunology of Visceral Leishmaniosis”, at Federal University of Maranhão, Brazil. 1997-2000. Sao Luis, Brazil
- **Prize „Ronaldo Araújo“** for the Best Oral Presentation and Best Research Project – “Análise da dinâmica de transmissão e fatores de risco relacionados ao desenvolvimento de leishmaniose visceral na Ilha de São Luis, Maranhão – Brasil”, at the National Congress of Medical Research, Belém – Pará, Brazil October 1998. Belem, Brazil
- **Prize “Conapem”** for the Oral Presentation at the Amazon Forum of Medical Sciences Belém – Pará, Brazil with the project: “Estudo da relação da contaminação por metais tóxicos com deficiência de minerais essenciais”. November 1998. Belem, Brazil
- **Best Scientific Presentation Award** of the European Society of Neuroradiology during the 33rd Congress and 17th Advanced Course of the ESNR – Pathomechanisms of symptomatic developmental venous anomalies. September 2009. Krakow, Poland
- **International Interventional Neuroradiology Award (Founders Award of the European Society of Neuroradiology)** for work on venous anatomy and venous development, 34th European Congress of Neuroradiology, September 2009. Athens – Greece
- **Peter Huber Prize 2012** – Optical flow imaging using Digital Subtracted Angiographic to evaluate flow diverter devices on the treatment of intracranial saccular aneurysms. November 2012. Bern, Switzerland
- **ESNR 2014 Prize in Honor of Rene Dinjjan** - Wall shear stress distribution of small aneurysms prone to rupture. September 2014. Istanbul, Turkey

- **Best Abstract AWARD 2016-** Eloquence-Weighted Imaging Improves Clinical Outcomes Prediction in Endovascular Stroke Therapy - 9th SVIN (Society of Vascular and Interventional Neurology), New York 2016

6. Professional Affiliations and Activities

- Brazilian Medical Association (Since 2002)
- Brazilian Society of Neurosurgery (Since 2002)
- Brazilian Society of Diagnostic and Interventional Neuroradiology (Since 2008)
- European Society of Neuroradiology (Since 2009)
- World Federation of Interventional Neuroradiology (Since 2009)
- American Heart Association (Since 2009)
- Swiss society of cerebrovascular diseases (Since 2013)
- Swiss Society of Neuroradiology (Since 2011)
- European Society of Neuroradiology, Spinal Board (Since 2012)
- College of Physicians and Surgeons of Ontario, Ontario, Canada (Since 2014)

7. Membership on Editorial Boards and Ad-Hoc Reviewer for Scientific Journals

- Section Lead Editor (Neuroradiology) of the European Journal of Radiology
- Anatomy Session Editor of the Journal Interventional Neurology
- **Ad hoc Reviewer:**
 - Stroke
 - Circulation
 - Journal of Neuroradiology
 - Journal of Neurointerventional Surgery
 - Neuroradiology
 - American Journal of Neuroradiology
 - European Journal of Internal Medicine
 - Journal of Neuroradiology
 - Neurosurgery
 - Interventional Neuroradiology
 - PLOS one
 - Consultant for the Schweizer National Fonds (Swiss Research Council)

8. Academic activities - Education

a) Supervision of Master thesis (UNIGE)

- Iona Garcia : *Etude hémodynamique de l'artère carotide interne segment ophtalmique : Application chez les patients avec anévrismes*. UNIGE, June 2012
- Nicolas Villard : *CFD dans l'évaluation de l'origine des anévrismes de bifurcation et paroi latérale*. UNIGE, June 2012
- Nicolas Ropraz : *Traitement endovasculaire de l' AVC ischémique : l'intérêt de l' scanner multimodal dans la sélection des patients*. UNIGE, June 2013
- Nicolas Machi : *Perfusion dans la selection de patient pour le traitement endovasculaire de l' AVC ischémique*. UNIGE, June 2013
- Mathias Kuster: *Impact of the wall shear stress cumulative distribution function on the determination of the rupture risk of intracranial aneurysms*. UNIGE, June 2014
- Diego Macchicao: *Intracranial aneurysms and the Polygon of Willis : Impact of the anatomical variations on the development and rupture*. UNIGE, 2014

b) Supervision of PhD Thesis

- Augusto Fava Sanches: *Hemodynamics for intracranial stenting evaluation University of Heidelberg, Germany (Co-Supervision)*

c) Reasearch and/or summer students

- Octavian Florea: *Intracranial AVMs Database : Impact of AVM rupture on patient outcome. Medical Student, University of New Jersey, NY, USA. February 2015 – June 2016*
- Elise Halpern: *Mastering the aneurysm growth. Medical Student, Ireland. June 2015 – August 2015*
- Eileen Liu : *Aneurysm rupture : Undertending the size issue on rupture aneurysms. Biologist, Ireland. June 2016 -*
- Shara Kim: *Intracranial AVMs Database : Impact of AVM rupture on patient outcome. Medical Student, Queen's University, Canada. June 2016 –*

- Danny Liang: *Aneurysms hemodynamics. Medical Student, University of Toronto, Canada. June 2016 –*

9. Grants and Funded Research

Peer-reviewed Funding

A. Hemodynamic Predictors of Cerebral Aneurysm Wall Vulnerability

Principal Investigators : David Steinman and **Vitor Mendes Pereira**
Collaborators: T Krings, I Radovanovic, M Tymianski (CAD 352,000.00)
Financing : Heart and Stroke Foundation
Period : April 2016 – May 2018

B. Computational fluid dynamics platform for modeling flow in cerebral aneurysms: Understanding growth and rupture with advanced hemodynamic and geometrical analysis.

Principal Investigator : **Vitor Mendes Pereira**
Collaborators: T Krings, I Radovanovic, M Tymianski (CAD 192,000.00)
Financing : AFP - MSH UHN Academic Medical Organization
Period : April 2015 – May 2017

C. Study of Aneurysm Hemodynamic in Predicting Stent Treatment Outcome: from Bench to Bedside.

Principal Investigators : **Vitor Mendes Pereira and Karl olof Lovblad**
Collaborators: K. Schaller, P Bijlenga, O Brina, R Ouared.
Financing : Swiss National Fonds – SNF 32003B_141192 (CHF 465,000.00)
Period : May 2012 – May 2015
Renewed : May 2015-May 2018 (CHF 362,000.00)

D. Intracranial aneurysms hemodynamic assessment using 4D flow MRI and DSA: experimental validation with PIV and clinical application on flow diverter stents

Principal Investigator : Maria Isabel Vargas
Co-PI: **Vitor Mendes Pereira**
Collaborators : Lövblad Karl-Olof, O Brina, R Ouared.
Financing : Swiss National Fonds
Period : Sept 2014 – Sept 2017 (CHF 450,000.00)

E. Etiopathogenesis, Diagnosis, Imaging and Treatment of Cervicocerebral Artery Dissections: A Multifactorial, Multidisciplinary and Translational

Approach (EDIT-CAD-Study)

Principal Investigator : Marcel Arnold (Bern, CH)

Collaborators: **Vitor Mendes Pereira**, KO Lovblad, R Sztajzel, O Brina, R Ouared.

Financing : Swiss National Fondation

Period: Jul 2012 – Jul 2015 (CHF 3,000,000.00)

F. Développement d'un système de visualisation et navigation intra-opératoire 3D & 4D, adapté aux salles d'intervention hybrides neurochirurgie-neuroradiologie.

Principal Investigator : **Vitor Mendes Pereira**

Collaborators: KO Lovblad, O Ratib, K Schaller, O Brina, J Perhac

Financing : Fondation *Rothschild*

Period : May 2011 – May 2014 (CHF 450,000.00)

G. Stent-assisted revascularization of acute stroke with proximal intracranial anterior circulation occlusion: a randomized pilot study.

Principal Investigator: C. Bonvin

Collaborators: **Vitor Mendes Pereira**, KO Lovblad, R Stajzel.

Financing : Swiss Fondation of Cardiology

Period : Nov 2008 – Nov 2009. (CHF 140,000.00)

H. The Osteoporotic Virtual Physiological Human (VPHOP) : Clinical validation and interventional treatment

Principal Investigator : Rizzoli René

Collaborators: **Vitor Mendes Pereira**, Merminod Fanny, Hars Mélanie, Ratib Osman et Lövblad Karl-Olof. (Protocole: 10-156)

Period : Jul 2010 – Jul 2012

Financing : VPHOP (CHF 2,000,000.00)

Clinical Studies

I. STAR trial: Solitaire FR Thrombectomy for Acute Revascularization. International clinical evaluation of the Solitaire™ FR used in the treatment of patients with acute ischemic stroke.

Principal Investigator : **Vitor Mendes Pereira** (Global Principal Investigator)

Global Collaborators: G Schroth, J Gralla (Bern), R Chapot (Essen, Germany), A Davalos, C Castano (Barcelona, Spain), A Bonafe (Montpellier, France), M Goyal (Calgary, Canada), A Moreno (Murcia, Spain), F Miteff (Melborne, Australy), M

Soderman, T Anderson (Stockholm, Sweden), R Gupta, R Nogueira (Atlanta, USA) and more 12 international stroke centers.

Local Collaborators: KO Lovblad, R Sztajzel, A Marcos Gonzalez, AP Narata, Yilmaz H.

Financing : ev3/Convidien

ClinicalTrials.gov identifier: NCT01327989

Period : October 2010 – october 2012

J. Solitaire™ FR With Intention for Thrombectomy as Primary Endovascular Treatment for Acute Ischemic Stroke (SWIFT PRIME) Clinical Trial

Principal Investigator : **Vitor Mendes Pereira** (Global Interventional PI), J Saver (US neuroPI), H Diener(EU neuroPI), A Siddiqui (US interventional PI), M Goyal (Imaging PI).

Local Collaborators: KO Lovblad, R Sztajzel, A Marcos Gonzalez, Yilmaz H.

Up to 60 centers

Financing: ev3/Covidien

ClinicalTrials.gov identifier: NCT01657461

K. Solitaire With the Intention For Thrombectomy Plus Intravenous t-PA Versus DIRECT Solitaire Stent-retriever Thrombectomy in Acute Anterior Circulation Stroke (SWIFT DIRECT) Clinical Trial

Principal Investigators : **Vitor Mendes Pereira** (North America Interventional PI), J Saver (US neuroPI), U Fisher (EU neuroPI), J Gralla (Europe interventional PI)

Local Collaborators: Siddiqui A, Furlan A, Chapot R, Cognard C.

Up to 60 centers

Financing: Medtronic

L. DAWN trial - Endovascular Treatment for Acute Ischemic Stroke Clinical Trial

Principal Investigator : Tudor Jovin and Raul Nogueira,

Steering Committee members : **Vitor Mendes Pereira**, J Saver, B Baxter, A Furlan, O Jansen, M Ribo

Local Collaborators: F Silver, Timo Krings

Financing: Stryker

M. PREMIER study - Pipeline device for small aneurysms.

Principal Investigator : Demetrius Lopes and Ricardo Hanel

Steering Committee members : **Vitor Mendes Pereira**, Kim Nelson et al.

Local Collaborators: Timo Krings
Financing: Covidien

N – CANAAN study– Canadian Unruptured Aneurysm Cohort Study

Principal Investigator : **Vitor Mendes Pereira**

Local Collaborators: Ivan Radovanovic, Timo Krings, Mike Tymianski, David Steinman, Gabriel Rinkel

Financing: requested for multicenter phase. Pilot study ongoing

Non Peer-reviewed Funding

O. MAXPIPE study : improving treatment results with optical imaging

Principal Investigator : **Vitor Mendes Pereira**

Collaborators: Timo Krings, Ricardo Hanel, Guilherme Dabus, Jacques Moret, Matthew Gounis, Fernando Vinuela (Multicenter international study)

Financing : Philips Medical

Period : Jul 2016– Nov 2018

P. Stroke Neurosuit. New perspective on endovascular treatment of acute stroke

Principal Investigator : **Vitor Mendes Pereira**

Collaborators: Timo Krings

Financing : Philips Medical

Period : Jul 2016– Nov 2019

Q. Aneurysm flow for flow assessment on Aneurysm treatments.

Principal Investigator : **Vitor Mendes Pereira**

Collaborators: Timo Krings.

Financing : Philips Medical

Period : Nov 2013 – Nov 2019

R. Flow assesment through Digital Subtracted Angiography (DSA) using optical flow method (OFM) and contrast modulation.

Principal Investigator : **Vitor Mendes Pereira**

Collaborators: KO Lovblad, K. Schaller, F Perren, P Bijlenga, O Brina, R Ouared.

Financing : Philips Medical

Period : Nov 2010 – Nov 2013

S. PIV – Particle Image Velocimetry validation of neuroradiological technical

methods (from DSA and MRI) to assess the intracranial and intra-aneurysmal flow.

Principal Investigator : **Vitor Mendes Pereira** and Mohammed Farhad (EPFL - Lab of Hydraulic Machines)

Collaborators: KO Lovblad, K. Schaller, P Bijlenga, O Brina, R Ouared.

Financing : Université de Genève

Period : Mar 2012 – Mar 2015

T. Rupture risk assessment of intracranial aneurysms using CFD

Principal Investigator : **Vitor Mendes Pereira**

Collaborators: KO Lovblad, K. Schaller, P Bijlenga, O Brina, R Ouared.

Financing : J & J/Codman

Period : 2011

10. Congress organization

- Chair, Stroke session, *European Congress of Radiology - ESR 2010*, Vienna, Austria, March 2010
- Member, local executive committee, *CARS 2010*, Geneva, CH, June 2011
- International Coordinator, *Brazilian Congress of Neurosurgery – Northeast Session*, Teresina, Brazil, June 2011
- Organizing Committee, Scientific Coordinator, *SILAN 2011 – Congress of the Iberolatin American Society of Neuroradiology*, Lisbonne, Portugal October 2011
- Organizing Committee, *SGNR (Swiss Society of Neuroradiology) Congress and Educational Course 2012*, Bern, CH November 2012
- Organizing Committee, Scientific Coordinator, Live center coordinator, *LINNC course 2012*, Paris, France, June 2012
- Organizing Committee, Scientific Coordinator, Live center coordinator, *LINNC course 2013*, Paris, France, June 2013
- Coordinator of the *Advanced Interventional Neuroradiology Course – Spinal Interventional (European Certification)*, Geneva, Switzerland, December 2013
- Organizing Committee, Scientific Coordinator, Live center coordinator, *LINNC course 2014*, Paris, France, June 2014

- Course Director, *LINNC course 2015*, Paris, France, June 2015
- Co-director INR symposium. Toronto, ON

11. Invited Conferences

11.a) Invited Lectures at National Scientific Meetings

Swiss Neurovascular Group Meeting. Lausanne (Switzerland), February 2010

- “*New era on stroke treatment: Stent-like devices. Geneva Experience*”,

Young Neurosurgical Swiss Meeting. Montreux (Switzerland), September 2010

- “*Endovascular Management of Intracranial Aneurysms*”
- “*Critical Analysis of Flow diverters devices*”
- “*Endovascular Management of Arteriovenous malformations*”
- “*Endovascular Management of Dural Arteriovenous malformations*”, “*Neuroradiology of Cavernomas*”
- “*Management of acute stroke: state of the art*”
- “*Current Indications of Carotid Stenting*”

14^{ème} reunion de la SAZ, Lausanne, CH, October 2010

- « *Mechanical thrombectomy with Stent-like device : Experience from HUG-Geneva* »,

Joint Annual meeting 2011. SSNR (Swiss Society of Neuroradiology), SSBN (Swiss Society for Behavior Neurology) and SFCNS (Swiss Federation of Clinical Neuro-Societies), Bern, CH October 2011

- “*Interventional Neuroradiology of Stroke*”,

Swiss Congress of Radiology, Zurich, Switzerland, June 2012

« *State of the art of acute stroke treatment*»

Swiss Congress of Neurosurgery, Lugano, Switzerland, June 2012

- « *Patient selection for unruptured aneurysm treatment : endovascular perspective*»

Swiss Congress of Neuroradiology, Bern, Switzerland, November 2012

- « *Pediatric AVMs : endovascular management*»

Swiss Society of cerebrovascular diseases 2013, Saint Gallen, Switzerland, January 2013

- « *Treatment of Intracranial Aneurysms : Role of endovascular treatment* »

Update on Strategies in Complex Aneurysm Treatment Congress and Lectures - Bern, Switzerland, September 2013

- « *Flow diverter devices : Update and advanced technique* »

6th “Swiss Stroke Trialists’ Meeting” and the first “Swiss Stroke Network Symposium” – Bern, Switzerland, February 2014

- « *Update on endovascular treatment and bridging* »
- « *CFD and estimation of the aneurysm rupture risk* »

14th Interventinal Neuroradiology Symposium – Toronto, Canada, September 2014

- « *Flow diversion : Pearls and pitfalls* »
- « *Advances in treatment of Brain AVMs* »
- « *Endovascular treatment of Stroke : Updates from the interventional side* »
- « *New developments in bifurcation aneurysm treatment* »
- « *Y, T and ½ T Stenting techniques – Indications and techniques* »

50th Congress of the Canadian Neurological Sciences Federation, Toronto, June, 2015

- « *Endovascular stroke treatment : Advances and current concepts* »

15th Interventinal Neuroradiology Symposium – Toronto, Canada, September 2015

- « *Indications and contraindications for Flow diverter devices* »
- « *Transvenous approaches to Brain AVMs* »
- « *When to use a stent retriever : Technical nuances* »
- « *New developments in bifurcation aneurysm treatment* »

2015 Canadian Stroke Conference, Toronto, September, 2015

- « *Endovascular stroke treatment : new guidelines and impact on nursing* »

OMA Annual Session on Physical Medicine and Rehabilitation - OMA, Toronto, April, 2016

- « *Neuroradiology of stroke: Update on Acute TStroke treatment and Brain Aneurysm Management* »

16th Interventinal Neuroradiology Symposium – Toronto, Canada, September 2016

- « *Flow diverter devices: case discussion in complications* »

- « *Percutaneous tumor embolizations* »
- « *Optical flow imaging in Neuroradiology* »

Montreal Neurological Institute Symposium on Acute Stroke – Montreal, Canada, May 2017

- « *Mechanical thrombectomy : state of the art techniques* »

29th Annual Meeting of the Eastern European Society of Neuroradiology – Toronto, Canada, August 2017

- « *Advances in Neurointervention* »

17Th Interventinal Neuroradiology Symposium – Toronto, Canada, September 2017

- « *Integrated Stroke Imaging Using a Flatpanel Angiography* »
- « *Pediatric Neurointerventions – An interactive Potpourri from Toronto* »
- « *Subclavian and Extracranial Vertebral Stenting* »
- « *Update on and Rationale Behind Current and Future Stroke Trials* »

10.b) Invited Lectures at International Scientific Meetings

ABC/Win 2007. Val d’Isère, France January 2007

- “*Neurovascular Phenotypes of Neurofibromatosis Type 1*”,

VII Brazilian Congress of Neurosurgery. Fortaleza (Brazil), October 2009

- “*Hemodynamics of intracranial circulation applied to cerebral aneurysms*”,

VII Brazilian Congress of Cerebrovascular Diseases. Vitoria (Brazil), October 2009

- “*Endovascular View Of A Combined Protocol: Where We Are And What Is The Next?*”
- “*State Of The Art Of Intra-Arterial Therapy And Future Directions*”,

Brazilian Congress of Neuroradiology. Sao Paulo (Brazil), November 2009

- “*Flow Dynamics Simulation of Intracranial Aneurysms and its current impact in Neuroradiology*”
- “*Endovascular Treatment of Acute Stroke*”
- “*Flow diverters stents: current concepts*”
- “*Unruptured Aneurysms: Current status of the literature*”,

European Stroke Meeting. Barcelone (Spain), May 2010

- “*Management of acute stroke: literature status and practical workshop*”,

Neuroembolition Congress. Sao Paulo (Brazil), August 2010

- *“Critical Analysis of Flow diverters devices”*
- *“Experience with Silk device: results and tricks”*
- *“Flow Dynamics of Intracranial Vascular Disease”*
- *“Management of acute stroke: literature status and practical workshop”*
- *“Organising a stroke center: lessons from Europe”*

World Stroke Congress 2010, Seoul, South Korea. October 2010

- *“Current concepts of the endovascular treatment of acute stroke”*
- *“Advanced Mechanical Therapy for Acute Stroke: from carotid to distal cerebral branches”*

SILAN 2010 - Congress of the Iberolatin American Society of Neuroradiology, Buenos Aires, Argentine, November 2010

- *“Terapéutica endovascular en el stroke agudo: experiencia en Ginebra”*
- *“ESMINT II - Unidad de Stroke: experiencia en Ginebra »*
- *“SIMI II - Flow Diverter, aneurismas y otras aplicaciones »*

Brazilian Congress of Neurosurgery. Salvador (Brazil), September 2010

- *“Endovascular Management of Intracranial Aneurysms”*
- *“Management of acute stroke: state of the art”*
- *“Flow Dynamics of Intracranial Vascular Disease”*
- *“Current Indications of Carotid Stenting”,*

International Stroke Conference – ISC 2011, Los Angeles, USA, February 2011

- *“European experience with flow diverter devices”*

Brazilian Congress of Neurosurgery – Section of Sao Paulo – “Neurao”, Sao Paulo, Brazil, March 2011

- *“Clip versus coil – microsurgery vs. Embolization for treating intracranial aneurysms*
- *“How i make the decision about treating them and how i treat my patients with intracranial aneurysms. The vision of a hybrid neurosurgeon”*
- *“Intracranial arteriovenous malformation - when endovascular curative treatment is indicated”*
- *“Outlook for the future. Hybrid operating rooms: surgery and/or embolization in the same operating environment – the experience in Geneva”*

LINNC (Live Interactive Neurosurgical and Neuroradiological Cases) meeting, Paris, France, May 2011

- *« Aneurysm flow studies : where we are ? is it useful ? and possible current applications »*

IIInd Symposium of Cardiology and Cardiac Surgery of the Federal University of Maranhao (HU_UFMA), Sao Luis, Maranhao, Brazil, June 2011

- *“Indicacoes para o tratamento endovascular dos aneurismas cerebrais”*
- *“Estado atual do tratamento endovascular do stroke agudo”*

Brazilian Congress of Neurosurgery – Northeast Session, Teresina, Brazil, June 2011

- *“Management of the acute stroke: from the door to the needle and from the needle to the angioroom: neuroradiological perspective”*

SNIS (Society of Neurointerventional Surgery - USA) 9th Annual Meeting, Colorado Springs, Colorado, USA, July 2011

- *“Flow assessment on aneurysm treatment: perspectives on flow diverting devices”*

XI Annual Meeting - Asociación Mexicana de Enfermedad Vasculat Cerebral (AMEVASC), Villa Hermosa, Tabasco, Mexico, August 2011

- *“Advances on Intracranial Aneurysm Treatment”*
- *“Currents status of the endovascular treatment of acute stroke”*

International Stenting Conference - ISC 2011, Shanghai, China, September 2011

- *“Intracranial stents on acute stroke treatment”*
- *“European experience with solitaire device for acute stroke treatment”*

SILAN 2011 - Congress of the Iberolatin American Society of Neuroradiology, Lisbonne, Portugal, October 2011

- *“Update on flow diverting treatment of intracranial aneurysms”*

LINC 2011 (Live Interventional Neuroradiological Cases), Houston, Texas, USA December 2011

- *« Flow assessment through DSA : Clinical Applications»*
- *Live cases from Geneva, Switzerland*

European Congress of Radiology ECR/2012. Vienna, Austria, March 2012

- *« PTA and stenting of intracranial arteries »*

XXXIX ème Annual meeting of the French Society of Neuroradiology, Paris, France, April 2012

- *« Transvenous approaches for cavernous DAVS»*

SNIS (Society of Neurointerventional surgery) Practicum, New York, USA, April 2012

- *“Management of the acute stroke: European perspective with new mechanical devices”*

LINNC 2012» LINNC congres, Paris, France, June 2012

- *Live cases from Geneva : Transvenous AVM approach, Y-Stenting and Flow diverter device for cavernous aneurysms.*

Italian International Stroke Symposium, Naples, Italy, June 2012

- *« State of the art of mechanical treatment for acute stroke»*

International Asian Stroke Conference, Beijing, China, June 2012

- *« Stentriever for acute stroke treatment : What they brought new for us ? »*

Jornadas de AVC do Minho - University of Braga, Portugal July 2012

- *« Manejo do AVC agudo em Genebra, Suíça»*

SNIS (Society of Neurointerventional surgery) Annual congress, San Diego, USA, July 2012

- *“Endovascular Management of the acute stroke: European experiences and future perspectives”*

International Interventional Neuroradiological Congress, Vitoria – ES, Brazil, August 2012

- *« Stentriever for acute stroke treatment : Update and tip and tricks»*
- *« Critical analysis of the flow diverters devices»*

Chinese Congress of Neurosurgery, Beijing, China, August 2012

- *« Endovascular treatment of complex aneurysms»*

ESMINT meeting, Nice, France, September 2012

- *« Paraclinoids Aneurysms : Geneva experience»*

Interventional Neuroradiology Symposium, Toronto, Canada, September 2012

- *« Computational flow dynamics and flow based measurements »*
- *« Do Flow Diverters Change the Approach of Endovascular Treatment of Hemorrhagic Dissections? »*
- *« Symptomatic Venous Vascular Variations »*
- *« Acute Stroke Management – The Geneve Experience»*
- *« Use of Stent-retrievers in Acute Stroke: Pearls, Pitfalls and Results»*

World Stroke Conference, Brasilia, Brazil, October 2012

- « *STAR trial : Improving the methodology of interventional stroke studies* »

World Stroke Conference, Brasilia, Brazil, October 2012

- « *Stentriever Solitaire : improving outcomes. European multicenter experience* »

European Congress of Radiology ECR/2013, Vienna, Austria, March 2013

- « *State of the art of the endovascular treatment of acute stroke treatment* »

Polenov readings – Russian Neurosurgical Meeting. San Petersburg, Russia, April 2013

- « *Advances on aneurysm treatment* »
- « *Ruptured and Unruptured AVMs : current management* »
- « *Imaging in acute stroke treatment* »

Bulgarian Congress of Neurology. Varna, Bulgaria, May 2013

- « *State of the art of the endovascular treatment of acute stroke treatment* »

LINNC 2013, Geneva-Paris, France, June 2013

- « *Live cases » : T-Stenting, Vertebro-vertebral fistula-transvenous approach, Pipeline device on a cavernous aneurysm.* »

II SPNR & SENR Joint Meeting Program, Lisbon, Portugal, October 2013

- « *Ischemic stroke imaging and treatment update* »
- « *Advances in aneurysm endovascular treatment* »

French Congress of Radiology, Paris, France, October 2013

- « *State of the art of the mechanical thrombectomy* »

WFITN/ISC 2013, Buenos Aires, Argentina, November 2013

- « *Optical flow method using DSA for aneurysm evaluation* »

International Stroke Conference, San Diego, USA, Feb 2014

- « *Indications and Contraindications for Flow Diversion* »

CFCVD2014, San Diego, USA, April 2014

- « *Indications and Contraindications for Flow Diversion* »
- « *Vessel Wall Imaging* »

Spanish Congress of Radiology, Oviedo, Spain, May 2014

- « *Complex aneurysm treatments* »
- « *Pediatric Malformations* »

WLNC meeting, Buenos Aires, Argentina, June 2014

- « *Balloon Guiding Catheters in Neuroradiology* »

The 10th International Stroke Summit (Nanjing, China), June, 2014

- *Advances in Endovascular treatment of acute stroke*
- *Patient selection focusing on clinical improvement*

LINNC meeting, Paris, France, June 2014

- « *Functional Imaging in DSA* »
- « *Pipeline Flex : European experience* »
- *Live cases from Geneva, Switzerland*

Symposium Neuroradiologicum, Istanbul, Turkey, September, 2014

- « *Wall shear stress distribution in small sized aneurysms prone to rupture* »

JSNET 2014, Japanese Society of Neurointervention, Yokohama, Japan, November 2014

- « *Acute Stroke treatment : Update on Stentriever technology* »
- « *Flow diverting treatment: Current concepts and new devices* »

The 11th International Stroke Summit (Nanjing, China), June, 2015

- *Advances in Endovascular treatment of acute stroke*
- *Patient selection focusing on clinical improvement*

LINNC meeting, Paris, France, June 2015

- « *Advances in per operative Imaging* »
- *Live cases from Toronto, Canada*

SNIS 2015 Congress (North American Interventional Society), San Francisco, USA, July 2015

- « *4D MRI on the evaluation of intracranial aneurysms treated with Flow Diverters* »

WCN 2015, World Neurology Congress, Santiago, Chile, November 2015

- « *Acute Stroke treatment : Update on Imaging and treatment* »

AINR stroke meeting, Florence, Italy, October 2015

- « *Vessel Wall Imaging : An update* »
- « *Endovascular acute stroke treatment: techniques and update* »

2nd STIN – Indian Society of Interventional Neuroradiology, New Delhi, India, December, 2015

- « *Management of intracranial dissections* »
- « *Endovascular treatment of AVMs : new techniques and challenges* »
- « *Optical Imaging in Medicine : Where we are and future developments* »

2016 Chinese Aneurysm Summit, Shanghai, China, March 2016

- « *Avoiding complications in Aneurysm treatment* »
- « *Flow diversion : Lessons after 300 cases* »

The 12th International Stroke Summit (Nanjing, China), June, 2016

- *Endovascular treatment of acute stroke*
- *Vessel Wall Imaging : Clinical relevance and case discussions*

2nd THISIT – International Symposium of Intracranial Stenting, Zhengzhou, China, September 2016

- *3D modelling in Neuroradiology : Clinical use in training and education*
- *Stent technology and acute stroke treatment*

3rd AVM Congress, Napa, CA, USA, October 2016

- *Future Directions of AVM endovascular treatment*

2nd National Conference of Neuroradiology – Thailand. Bangkok, October 2016

- « *Intracranial dissections : deconstruction or reconstruction* »
- « *Updates on acute stroke trials and clinical evidence* »
- « *Intracranial aneurysm treatment : advances and new devices* »
- « *DAVS : anatomy for intervention* »

12nd Brazilian Congress of Neuroradiology. Sao Paulo, November 2016

- « *Complications of Mechanical Thrombectomy in Hyperacute Stroke* »
- « *Evolution of stroke treatment* »

Beijing Tiantan International Forum of Neurosurgeyr (BIFNS), December 2016

- « *Aneurysm coiling : advanced techniques* »
- « *State of the of AVM treatment* »

LINNC meeting, Paris, France, June 2017

- « *One stop stroke unit : reality ?* »
- *Live cases from Toronto, Canada*

14th Interdisciplinary Cerebrovascular Symposium, Montpellier, France, June 2017

- « *Virtual intracranial stenting research update and perspectives:*

modélisation, évaluation clinique et CFD»

14th SNIS meeting (Society of NeuroInterventional Surgery), Colorado, USA, July 2017

- « *Aneurysm coiling : advanced techniques* »
- « *State of the of AVM treatment* »

Medical Image Computing and Computer Assisted Interventions Conference 2017, Quebec city, September 2017

- « *Evolution of stroke treatment* »

11.c) Invited Lectures at International Courses and Symposia

18th Swiss Congress of Neurology. Aarau (Switzerland), November 2009

- “*Neuroradiology of Intracranial Vascular Malformation*”

"Les Lundis de l'Image": HUG, Geneva, CH, Jun 2010

- *Advances on the treatment of ischemic stroke.*

The Battles And Breakthroughs : Stents and/ballons. Lausanne, CH, October 2010

- « *Ballons remodeling for ruptured and unruptured aneurysms* »

"Les Lundis de l'Image": HUG, Geneva, CH, April 2011

- *Neuroradiology of Cerebral Hemodynamics.*

Grand Rounds in Radiology, Canton Hospital of Aarau, Aarau, Switzerland, September 2011

- “*Management of Pediatric Vascular Malformations*”

Colloque du Departement de Neurosciences, Geneva, Switzerland, October 2011

- “*Hemodynamics of Intracranial Aneurysms: From bench to bedside*”

Colloque du service de radiologie - University Hospital of Basel, Switzerland

- “*Hemodynamics of Intracranial Aneurysms: lessons from 2013*”

52th Lougheed Course, Mount Sinai Hospital, April, 2016

- “*Anatomy of Brain vessels: clinical relevance*”

53th Lougheed Course, Mount Sinai Hospital, October, 2016

- “*Anatomy of Brain vessels: clinical relevance*”

11.d) Invited Lectures at International Courses and Symposia

European Course in Neuroradiology (ECNR) for the European Board of Neuroradiology – 10th Cycle. Rome (Italy), March 2009

- *“Congenital Nature of Vascular Malformation”*
- *“Vascular Information Useful for Neurosurgery”*
- *“Juvenile Angiofibromas: Treatment”*
- *Workshop - “Direct Percutaneous Approaches To Head And Neck “*

First French Penumbra Joint Stroke Workshop. Limoges (France), June 2009

- *“Management of acute stroke: literature status and practical workshop”*

Grand Rounds: University of Toronto, Toronto Western Hospital. Toronto (Canada), June 2009

- *“Management of acute stroke: Updates on mechanical thrombectomy”*

13th EUSI - European Stroke Initiative, Lille, France, August 2009

- *« MRI in stroke »*

34th European Congress of Neuroradiology (ESNR) – Athens (Greece), September 2009

- *“Pathomechanisms of symptomatic DVAs”*

European Course in Neuroradiology (ECNR) for the European Board of Neuroradiology – 10th Cycle. Tarragone (Spain), October 2009

- *“When DVAs turn bad: pathomechanisms of symptomatic DVAs”*
- *“Endovascular interventions in acute ischemic stroke”*
- *“Recurrence rates of aneurysms following clipping and coiling: Metaanalysis of the literature and experimental results”*

Belgium-Holland Joint Stroke Workshop. Liege (Belgium), December 2009

- *“Management of acute stroke: literature status and practical workshop”*

Third French Penumbra Joint Stroke Workshop. Limoges (France), December 2009

- *“Management of acute stroke: literature status and practical workshop”*

2nd ESMINT course. Barcelona (Spain) December 2009

- *“Management of acute stroke: stent-like devices. Geneva experience”*

First French Joint Stroke Workshop. Paris (France), January 2010

- *“Management of acute stroke: literature status and practical workshop”*

First Pan-Arabic Stroke Meeting. Beyrouth (Lyban), February 2010

- “Management of acute stroke: literature status and practical workshop”

Key Opinion Leaders Stroke - Penumbra Stroke Workshop. Helsinki (Finland), March 2010

- “Management of acute stroke: literature status and Geneva Experience”

Great Britain Stroke Meeting. London (England), March 2010

- “Management of acute stroke: literature status and practical workshop”

Russian Neurosurgical Congres, San Petersburg (Russia), April 2010

- “New era on stroke treatment: Stent-like devices. Geneva Experience”,

Pan-Arabic Stroke Program. Amman (Jordan), July 2010

- “Management of acute stroke: literature status and practical workshop”
- “Organising a stroke center: lessons from Europe”

Korean Congress of Neuroradiology, Seoul (Korean), August 2010

- “Management of acute stroke: literature status and practical workshop”
- “Organising a stroke center: lessons from Europe”,

European Course of Neuroradiology – Interventional Workshops. Lisbonne, Portugal, September 2010

- “Paraspinal Dural Arteriovenous Shunts”
- “Dangerous anatomosis between ECA and ICA”
- “Endovascular management of the Epitaxis”

Grand Rounds in Neurosciences, University Hospital Vienna, Austria. September 2010

- “Interventional treatment of acute stroke. Mechanical therapies”

European Course in Neuroradiology (ECNR) for the European Board of Neuroradiology – 11th Cycle. Tarragone, Spain, November 2010

- « Workshop : Pediatric AVMs »
- « Parachordal fistulas and vertero-vertebral AVF »
- « Perforators of the Vertebraobasilar System »

Grand Rounds in Neurology, Hospital of the University of Sevilla (CHU Macarena), Sevilla, Spain, November 2010

- « Building an Endovascular Stroke Acitivity»
- « Current Management of the Acute Stroke : enlarging indications and therapeutic window »

European Course in Neuroradiology (ECNR) for the European Board of Neuroradiology – 11th Cycle. Rome, Italy, March 2011

- “*Vascular Information Useful for Neurosurgery*”
- “*Venous and lymphatic malformations*”

European Course in Neuroradiology (ECNR) for the European Board of Neuroradiology – Interventional Workshops. Naples, Italy, April 2011

- « *Intra-arterial thrombolysis and thrombectomy* »
- « *Animal clot and flow model and hands on with clot retriever, glue and onyx* »

Morbimortality Meeting – French Society Neuroradiology, Montpellier, France, July 2011

- “*Stroke cases: morbimortality session*”
- “*My worst complications on aneurysm treatment: lessons to improve patient care*”

Grand Rounds in Neurology, University Hospital Milwaukee, USA, September 2011

- “*Update on Flow diverting treatment for intracranial aneurysms*”

European Course in Neuroradiology (ECNR) for the European Board of Neuroradiology – 11th Cycle. Tarragone, Spain, November 2011

- “*Endovascular interventions in acute ischemic stroke*”
- “*Pre-, peri- and postinterventional anticoagulation and antiaggregation management for ruptured and unruptured aneurysms*”
- “*When DVAs turn bad: pathomechanisms of symptomatic DVAs*”

Diplôme Interuniversitaire de Neuroradiologie (DIU Neuroradiologie), CHU Limoges, France, December 2011

- « *Hemodynamics of Intracranial Aneurysms* »

IMS III Study European training, Zurich, Switzerland, December 2011

- « *Technical tips and tricks for mechanical acute stroke treatment* »

Advanced Endovascular Neurosurgery Workshops – Chinese Society of Neurosurgery, Kunming and Tienan, China, March 2012

- « *Update on endovascular acute stroke treatment* »
- « *Advances on stent bridging technique for complex aneurysm treatment* »

European Course in Neuroradiology (ECNR) for the European Board of Neuroradiology – Interventional Workshops. Naples, Italy, April 2012

- « *DAVS : tips and tricks* »

- « *Neuroradiological Anatomy of the Cranio-facial région applied to tumoral embolization* »
- « *Venous and Lymphatic Malformations* »
- « *Embolization of Nasoangiofibromas* »

French Neuroradiology Diploma, Limoges, France, December 2012

- « *Intracranial hemodynamics and impact on aneurysm disease* »

Exchange Program China, Shanghai, China, October 2013

- « *Ischemic stroke imaging and treatment update* »

Exchange Program China, Wuhan, China, October 2013

- « *Complex aneurysm endovascular treatment* »

Exchange Program China, Ghoangzhou, China, October 2013

- « *Intracranial dissections : Management and strategies* »

ESNR/ESO stroke meeting, Bern, Switzerland, February 2014

- « *Endovascular stroke treatment* »

WFITN Anatomy course, Lisbon, Portugal, October 2015

- « *Vascular Anatomy of the Scalp and Face* »
- « *Workshop : Dangerous anastomosis EC-ICA* »

ATNT Meeting (Stroke), Tel Aviv, Israel, May 2016

- « *Stretching the envelope on the stroke treatment* »

HOT TOPICS IN PEDIATRIC NEURORADIOLOGY, Brasilia, Brazil, September 2016

- « *VEIN OF GALEN MALFORMATIONS : Comprehensive Management* »
- « *Pediatric Neurointerventions : concepts and practice* »

European Course in Neuroradiology (ECNR) for the European Board of Neuroradiology – South America Module, February 2017

- « *Anatomy of the Spinal Cord* »
- « *Embryology and development of Brain vasculature* »

11.e) Visiting Professorships

Jinan, Shandong, China

April, 2012

- « *Acute Stroke treatment : updates* »
- « *Advanced Treatment of Intracranial Aneurysms* »

Saint Petersburg, Russia. Polenov Institut

Polenov Readings: Russian Neurosurgical Conference 2015, Saint Peterbourg, Russia, April 2015

- « *Acute Stroke treatment after recent RCTs*»
- « *Advanced Treatment of Intracranial Aneurysms* »
- « *Tips and tricks on the treatment with Flow Diverting Devices* »

Botucatu, Sao Paulo. State University of Sao Paulo, Brazil

August, 2015

- *Neuroradiological Anatomy of the Cranio-facial region applied to tumoral embolization*
- *Embolization of Epistaxis and head and neck tumors (Nasoangiofibromas, paragangliomas)*
- *Angiomas (Venous, Arteriovenous and Lymphatic Malformations): Current concepts and management*
- *Angiogenesis, Vasculogenesis and Development of vascular lesions*
- *Natural History and Angioarchitecture of AVMs*
- *Current Management of ruptured and unruptured Brain AVMs*
- *Pediatric Arteriovenous Malformations*
- *Dural arteriovenous shunts: Classification, Natural History and Management*
- *Hemodynamics of Intracranial Aneurysms: From bench to bedside. (Aneurismas cerebrais: implicações do estudo do padrão de fluxo intra-aneurismático)*
- *Advances on Intracranial Aneurysm Treatment”*
- *What’s new on neuroimaging for cerebrovascular lesions and ischemic stroke*
- *Current Indications of Carotid and Intracranial Stenting*
- *Intracranial dissections: physiopathology, diagnosis, natural history and management*

III Encontro de Ex Residentes

- *Avancos no tratamento endovascular dos aneurimas cerebrais complexos*
- *State of the art of the acute stroke management in 2015: From Evidence to Practice*

Belgrade, Serbia, University of Belgrade

May, 2016

- « *Dural shunts : classification, management and treatment*»

- « *Advanced Treatment of Intracranial Aneurysms* »

**Botucatu, Sao Paulo. State University of Sao Paulo, Brazil
November, 2016**

- *Acute stroke management: From Evidence to Practice*
- *Imaging selection of Acute Stroke*

**Ho Chi Minh, Vietnam, 115 Hospital
May, 2017**

- *Acute stroke treatment in Toronto*
- *Imaging selection on Acute Stroke*
- *Techniques of mechanical thrombectomy*
- *Tips and tricks and case discussion*

**Ho Chi Minh, Vietnam, Ho Chi Minh University Medical Hospital
May, 2017**

- *Acute stroke treatment in Toronto*
- *Imaging selection on Acute Stroke*
- *Techniques of mechanical thrombectomy*
- *Tips and tricks and case discussion*

**Hanoi, 108 Hospital
June, 2017**

- *Acute stroke treatment in Toronto*
- *Imaging selection on Acute Stroke*
- *Techniques of mechanical thrombectomy*
- *Tips and tricks and case discussion*

**Hanoi, Bach Mai Hospital Hospital
June, 2017**

- *Acute stroke treatment in Toronto*
- *Imaging selection on Acute Stroke*
- *Techniques of mechanical thrombectomy*
- *Tips and tricks and case discussion*
- *Treatment of complex aneurysms*

Toronto, May 29 2018

A handwritten signature in black ink, consisting of a stylized, cursive letter 'P' followed by a horizontal line extending to the right.

Vitor Mendes Pereira MD MSc

Publication List

- 1. Application of PHASES and ELAPSS scores to ruptured cerebral aneurysms: how many would have been conservatively managed?**
Hilditch CA, Brinjikji W, Tsang AC, Nicholson P, Kostynskyy A, Tymianski M, Krings T, Radovanovic I, Pereira VM.
J Neurosurg Sci. 2018 May 28.
- 2. Virtual stenting of intracranial aneurysms: A pilot study for the prediction of treatment success based on hemodynamic simulations.**
Berg P, Saalfeld S, Janiga G, Brina O, Cancelliere NM, Machi P, Pereira VM.
Int J Artif Organs. 2018 May 1:391398818775521.
- 3. Carotid Stenting for Treatment of Symptomatic Carotid Webs: A Single-Center Case Series.**
Brinjikji W, Agid R, Pereira VM.
Interv Neurol. 2018 Apr;7(5):233-240.
- 4. Pipeline embolization of posterior circulation aneurysms: a multicenter study of 131 aneurysms.**
Griessenauer CJ, Ogilvy CS, Adeeb N, Dmytriw AA, Foreman PM, Shallwani H, Limbucci N, Mangiafico S, Kumar A, Michelozzi C, Krings T, Pereira VM, Matouk CC, Harrigan MR, Shakir HJ, Siddiqui AH, Levy EI, Renieri L, Marotta TR, Cognard C, Thomas AJ.
J Neurosurg. 2018 May 4:1-13.
- 5. Direct mechanical thrombectomy in tPA-ineligible and -eligible patients versus the bridging approach: a meta-analysis.**
Kaesmacher J, Mordasini P, Arnold M, López-Cancio E, Cerdá N, Boeckh-Behrens T, Kleine JF, Goyal M, Hill MD, Pereira VM, Saver JL, Gralla J, Fischer U.
J Neurointerv Surg. 2018 Apr 28.
- 6. Nickel-related adverse reactions in the treatment of cerebral aneurysms: a literature review.**
Tsang ACO, Nicholson P, Pereira VM.
World Neurosurg. 2018 Apr 20.
- 7. Hemodynamic Changes May Indicate Vessel Wall Injury After Stent Retrieval Thrombectomy for Acute Stroke.**
Perren F, Kargiotis O, Pignat JM, Pereira VM.
J Neuroimaging. 2018 Apr 14.
- 8. Endovascular Management of Acute Stroke in the Elderly: A Systematic Review and Meta-Analysis.**
Hilditch CA, Nicholson P, Murad MH, Rabinstein A, Schaafsma J, Pikula A, Krings T, Pereira VM, Agid R, Brinjikji W.
AJNR Am J Neuroradiol. 2018 May;39(5):887-891.

9. **PHASES and ELAPSS Scores Are Associated with Aneurysm Growth: A Study of 431 Unruptured Intracranial Aneurysms.**
Brinjikji W, Pereira VM, Khumtong R, Kostensky A, Tymianski M, Krings T, Radovanovich I.
World Neurosurg. 2018 Jun;114:e425-e432.
10. **Flow Diversion for the Treatment of Basilar Apex Aneurysms.**
Dmytriw AA, Adeeb N, Kumar A, Griessenauer CJ, Phan K, Ogilvy CS, Foreman PM, Shallwani H, Limbucci N, Mangiafico S, Michelozzi C, Krings T, Pereira VM, Matouk CC, Zhang Y, Harrigan MR, Shakir HJ, Siddiqui AH, Levy EI, Renieri L, Cognard C, Thomas AJ, Marotta TR.
Neurosurgery. 2018 Feb 26.
11. **Management of tandem occlusions in acute ischemic stroke - intracranial versus extracranial first and extracranial stenting versus angioplasty alone: a systematic review and meta-analysis.**
Wilson MP, Murad MH, Krings T, Pereira VM, O'Kelly C, Rempel J, Hilditch CA, Brinjikji W.
J Neurointerv Surg. 2018 Mar 9.
12. **Predictors of Occurrence and Anatomic Distribution of Multiple Aneurysms in Patients with Aneurysmal Subarachnoid Hemorrhage.**
Roethlisberger M, Achermann R, Bawarjan S, Stienen MN, Fung C, D'Alonzo D, Maldaner N, Ferrari A, Corniola MV, Schöni D, Valsecchi D, Maduri R, Seule MA, Burkhardt JK, Marbacher S, Bijlenga P, Blackham KA, Bucher HC, Mariani L, Guzman R, Zumofen DW; Swiss SOS Study Group.
World Neurosurg. 2018 Mar;111:e199-e205.
13. **Transvenous embolization of brain arteriovenous malformations: a systematic review and meta-analysis.**
Fang YB, Byun JS, Liu JM, Krings T, Pereira VM, Brinjikji W.
J Neurosurg Sci. 2018 Feb 13.
14. **Endovascular treatment of intracranial vertebrobasilar artery dissecting aneurysms: Parent artery occlusion versus flow diverter.**
Fang YB, Lin A, Kostynskyy A, Agid R, Tymianski M, Radovanovic I, Krings T, Pereira VM.
Eur J Radiol. 2018 Feb;99:68-75.
15. **Better Than Nothing: A Rational Approach for Minimizing the Impact of Outflow Strategy on Cerebrovascular Simulations.**
Chnafa C, Brina O, Pereira VM, Steinman DA.
AJNR Am J Neuroradiol. 2018 Feb;39(2):337-343.
16. **Effect of general anaesthesia on functional outcome in patients with anterior circulation ischaemic stroke having endovascular thrombectomy versus standard care: a meta-analysis of individual patient data.**

Campbell BCV, van Zwam WH, Goyal M, Menon BK, Dippel DWJ, Demchuk AM, Bracard S, White P, Dávalos A, Majoie CBLM, van der Lugt A, Ford GA, de la Ossa NP, Kelly M, Bourcier R, Donnan GA, Roos YBWEM, Bang OY, Nogueira RG, Devlin TG, van den Berg LA, Clarençon F, Burns P, Carpenter J, Berkhemer OA, Yavagal DR, **Pereira VM**, Ducrocq X, Dixit A, Quesada H, Epstein J, Davis SM, Jansen O, Rubiera M, Urra X, Micard E, Lingsma HF, Naggara O, Brown S, Guillemin F, Muir KW, van Oostenbrugge RJ, Saver JL, Jovin TG, Hill MD, Mitchell PJ; HERMES collaborators.
Lancet Neurol. 2018 Jan;17(1):47-53.

17. Treatment of blood blister aneurysms of the internal carotid artery with flow diversion.

Mokin M, Chinae A, Primiani CT, Ren Z, Kan P, Srinivasan VM, Hanel R, Aguilar-Salinas P, Turk AS, Turner RD, Chaudry MI, Ringer AJ, Welch BG, **Mendes Pereira V**, Renieri L, Piano M, Elijovich L, Arthur AS, Cheema A, Lopes DK, Saied A, Baxter BW, Hawk H, Puri AS, Wakhloo AK, Shallwani H, Levy EI, Siddiqui AH, Dabus G, Linfante I.
J Neurointerv Surg. 2018 Feb 24.

18. Microcatheter contrast injection in stent retriever neurothrombectomy is safe and useful: insights from SWIFT PRIME.

Raychev R, Jahan R, Saver JL, Nogueira RG, Goyal M, **Pereira VM**, Levy E, Yavagal DR, Cognard C, Liebeskind D.
J Neurointerv Surg. 2017 Nov 10.

19. Vessel calibre and flow splitting relationships at the internal carotid artery terminal bifurcation.

Chnafa, Christophe; Bouillot, Pierre; Brina, Olivier; Delattre, Benedicte; Vargas, Maria; Lovblad, Karl-Olaf; **Pereira, Vitor**; Steinman, David
Physiol Meas. 2017 Nov 1;38(11):2044-2057

20. Somatic activating KRAS mutations in brain arteriovenous malformations

Sergey I Nikolaev, Sandra Vetiska, Ximena Bonilla, Emilie Boudreau, Suvi Jauhiainen, Behnam Rezai Jahromi, M.B., Nadiya Khyzha, Peter DiStefano, Santeri Suutarinen, Tim-Rasmus Kiehl, **Vitor Mendes Pereira**, Alexander M. Herman, Timo Krings, Hugo Andrade-Barazarte, Takyee Tung, Taufik Valiante, Gelareh Zadeh, Mike Tymianski, Stylianos E. Antonarakis, Tuomas Rauramaa, Seppo Ylä-Herttuala, Joshua D. Wythe, Juhana Frösen, Jason E. Fish, Ivan Radovanovic.
New England Journal of Medicine, 2017 in press

21. Thrombectomy for Stroke Patients with Mismatch in the 6-24 hour time window

Raul G. Nogueira. Ashutosh J. Jadhav, Diogo C. Haussen, Alain Bonafe, Ronald J. Budzik, Parita Bhuva, Dileep R. Yavagal, Marc Ribo, Christophe Cognard, Ricardo A. Hanel, Cathy A. Sila, Ameer Hassan, Monica Millan, Elad I. Levy, Peter Mitchell, Michael Chen, Joey D. English, Qaisar A. Shah, Frank L. Silver, **Vitor M. Pereira**, Brijesh P. Mehta, Blaise W. Baxter, Michael G. Abraham, Pedro Cardona, Erol Veznedaroglu, Frank J. Hellinger, Lei Feng, Jawad F. Kirmani, Demetrius K. Lopes,

Brian T. Jankowitz, Michael R. Frankel, Vincent Costalat, Nirav A. Vora, Albert J. Yoo, Amer Malik, Anthony J. Furlan, Marta Rubiera, Amin Aghaebrahim, Jean-Marc Olivot, Wondwossen G. Tekle, Ryan Shields, Todd Graves, Wade S. Smith, David S. Liebeskind, Jeffrey L. Saver, Tudor G. Jovin for the DAWN Trial Investigators*
New England Journal of Medicine, 2017 in press

22. **Diffusion-weighted imaging or computerized tomography perfusion assessment with clinical mismatch in the triage of wake up and late presenting strokes undergoing neurointervention with Trevo (DAWN) trial methods.**

Jovin TG, Saver JL, Ribo M, **Pereira V**, Furlan A, Bonafe A, Baxter B, Gupta R, Lopes D, Jansen O, Smith W, Gress D, Hetts S, Lewis RJ, Shields R, Berry SM, Graves TL, Malisch T, Rai A, Sheth KN, Liebeskind DS, Nogueira RG.
Int J Stroke. 2017 Aug;12(6):641-652.

23. **Direct Mechanical Thrombectomy Versus Combined Intravenous and Mechanical Thrombectomy in Large-Artery Anterior Circulation Stroke: A Topical Review.**

Fischer U, Kaesmacher J, Mendes Pereira V, Chapot R, Siddiqui AH, Froehler MT, Cognard C, Furlan AJ, Saver JL, Gralla J.
Stroke. 2017 Oct;48(10):2912-2918.

24. **Impact of balloon guide catheter on technical and clinical outcomes: a systematic review and meta-analysis.**

Brinjikji W, Starke RM, Murad MH, Fiorella D, **Pereira VM**, Goyal M, Kallmes DF.
J Neurointerv Surg. 2017 Jul 28.

25. **Mechanical Thrombectomy After Intravenous Thrombolysis vs Mechanical Thrombectomy Alone in Acute Stroke-Reply.**

Coutinho JM, **Pereira VM**.
JAMA Neurol. 2017 Aug 1;74(8):1015.

26. **Treatment of an internal carotid artery aneurysm with a flow diverter through a double lumen balloon catheter.**

Amorim JM, Rosati S, Agid R, **Pereira VM**, Krings T.
Interv Neuroradiol. 2017 Jun;23(3):255-259.

27. **Efficacy of Stent-Retriever Thrombectomy in Magnetic Resonance Imaging Versus Computed Tomographic Perfusion-Selected Patients in SWIFT PRIME Trial (Solitaire FR With the Intention for Thrombectomy as Primary Endovascular Treatment for Acute Ischemic Stroke).**

Menjot de Champfleur N, Saver JL, Goyal M, Jahan R, Diener HC, Bonafe A, Levy EI, **Pereira VM**, Cognard C, Yavagal DR, Albers GW.
Stroke. 2017 Jun;48(6):1560-1566.

28. **Gamma Knife radiosurgery for the treatment of intracranial dural arteriovenous fistulas.**

Dmytriw AA, Schwartz ML, Cusimano MD, **Mendes Pereira V**, Krings T, Tymianski M, Radovanovic I, Agid R.
Interv Neuroradiol. 2017 Apr;23(2):211-220.

29. **Acute basilar artery occlusion: Endovascular Interventions versus Standard Medical Treatment (BEST) Trial-Design and protocol for a randomized, controlled, multicenter study.**

Liu X, Xu G, Liu Y, Zhu W, Ma M, Xiong Y, Zi W, Dai Q, Leung T, Yan B, Davis S, Liebeskind DS, **Pereira VM**, Nogueira RG; BEST Trial Investigators.
Int J Stroke. 2017 Oct;12(7):779-785.

30. **Cost-Effectiveness of Solitaire Stent Retriever Thrombectomy for Acute Ischemic Stroke: Results From the SWIFT-PRIME Trial (Solitaire With the Intention for Thrombectomy as Primary Endovascular Treatment for Acute Ischemic Stroke).**

Shireman TI, Wang K, Saver JL, Goyal M, Bonafé A, Diener HC, Levy EI, **Pereira VM**, Albers GW, Cognard C, Hacke W, Jansen O, Jovin TG, Mattle HP, Nogueira RG, Siddiqui AH, Yavagal DR, Devlin TG, Lopes DK, Reddy VK, du Mesnil de Rochemont R, Jahan R, Vilain KA, House J, Lee JM, Cohen DJ; SWIFT-PRIME Investigators.
Stroke. 2017 Feb;48(2):379-387.

31. **Improved reduced-order modelling of cerebrovascular flow distribution by accounting for arterial bifurcation pressure drops.**

Chnafa C, Valen-Sendstad K, Brina O, **Pereira VM**, Steinman DA.
J Biomech. 2017 Jan 25;51:83-88.

32. **CT imaging selection in acute stroke.**

Bouchez L, Sztajzel R, Vargas MI, Machi P, Kulcsar Z, Poletti PA, **Pereira VM**, Lövblad KO.
Eur J Radiol. 2016 Oct 26.

33. **3D phase contrast MRI: Partial volume correction for robust blood flow quantification in small intracranial vessels.**

Bouillot P, Delattre BM, Brina O, Ouared R, Farhat M, Chnafa C, Steinman DA, Lovblad KO, **Pereira VM**, Vargas MI.
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PROCEEDINGS

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