

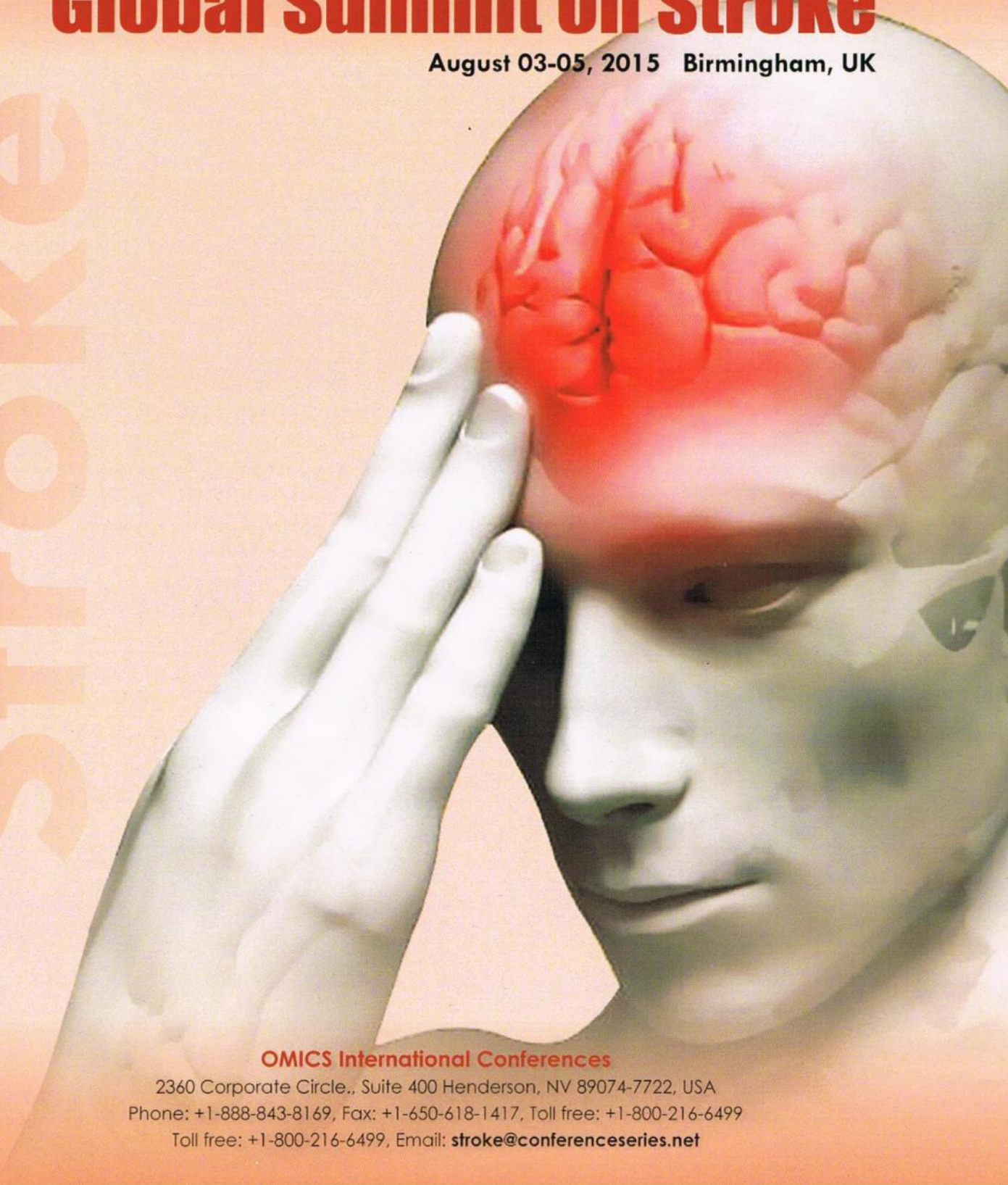
## **Journal of Brain Disorders & Therapy**

Proceedings of

# **Global Summit on Stroke**

August 03-05, 2015 Birmingham, UK

Stroke



**OMICS International Conferences**

2360 Corporate Circle., Suite 400 Henderson, NV 89074-7722, USA

Phone: +1-888-843-8169, Fax: +1-650-618-1417, Toll free: +1-800-216-6499

Toll free: +1-800-216-6499, Email: [stroke@conferenceseries.net](mailto:stroke@conferenceseries.net)



**Session on: Imaging and Diagnosis and Acute Stroke Management**

Session Chair: Stefan Golaszewski, Paracelsus Medical University Salzburg, Austria

Session Co-Chair: Sikha Saha, University of Leeds, UK

**Session Introduction**

- 11:30-12:00 **Title: Use of stroke model in pathophysiology and early diagnosis**  
Sikha Saha, University of Leeds, UK
- 12:00-12:30 **Title: Evaluation of the role of ischemia modified albumin as a new biochemical marker for differentiation between ischemic and hemorrhagic stroke**  
Nany Elgayar, Alexandria University, Egypt
- 12:30-13:00 **Title: Functional improvement in stroke patients in the subacute stage after treatment with whole-hand electrical stimulation**  
Stefan Golaszewski, Paracelsus Medical University Salzburg, Austria

**Lunch Break: 13:00-14:00**

- 14:00-14:30 **Title: The 10,000 fold effect of retrograde Neurotransmission, A new concept for stroke revival: Use of Intracarotid Sodium Nitropruside**  
Vinod Kumar, Neuro center, India
- 14:30-15:00 **Title: Role & clinical results of stem cell therapy in the management of stroke**  
Alok Sharma, Neuro Gen Brain & Spine Institute, India

**15:00-15:45 Poster Presentations**

Poster Judge: Howard Prentice, Florida Atlantic University, USA

- P1 **Title: Pharmacotherapeutic efficiency of Mitochondrin (2) and Cerebral under experimental acute hemorrhagic stroke: influence on glial homeostasis of cerebral cortex of rats**  
Oleksandr Makarenko, University of Kyiv, Ukraine
- P2 **Title: Program of cardiac prevention and rehabilitation: Useful and necessary tool in the treatment of stroke**  
Monica Rincon, Universidad de La Sabana, Bogota, Colombia

**Networking & Refreshment Break 15:45-16:15**

**Young Researcher Forum**

- 16:15-16:45 **Title: Stroke and Neurosurgery: new insights into two unrecognized entities**  
Bruno Lourenco Costa, University of Coimbra, Portugal
- 16:45-17:15 **Title: Cellular damage and changes in glutamate transporters in a murine model of ischemic stroke**  
Sabah Khan, University of Leeds, UK

**Day 3 August 05, 2015**

**Hall 1**

**Session on: Epidemiology of Stroke and Stroke riskfactors and their Impact**

Session Chair: Ihor Huk, Medical University of Vienna, Austria

Session Co-Chair: Ying Li, Nanjing Medical University School of Public Health, China

**Session Introduction**

- 10:00-10:30 **Title: Neutrophil Gelatinase-associated Lipocalin (NGAL) - Is it relevant for the characterisation of a vulnerable carotid plaque?**  
Ihor Huk, Medical University of Vienna, Austria
- 10:30-11:00 **Title: Features of the collateral circulation in the vertebrobasilar system in the setting of the cervical spinal injury**  
Mykola Salkov, Dnipropetrovsk Medical Academy, Ukraine

**Networking & Refreshment Break 11:00-11:30**

- 11:30-12:00 **Title: Effect of COC, hypertension, dyslipidemia and susceptibility on the risk of female stroke in China**  
Ying Li, Nanjing Medical University School of Public Health, China
- 12:00-12:30 **Title: Case fatality of stroke in IRAN: a systematic review and Meta-analysis**  
Yasaman Khalili, Iran University of Medical Sciences, Iran
- 12:30-13:00 **Title: Exposome, Aging, infections, Climate change and variability, and biomarkers of inflammation, immune dysfunction, endothelial dysfunction, oxidative stress, and thrombo-embolism for Stroke in Sub-Saharan Africa**  
B. Longo-Mbenza, Walter Sisulu University, South Africa

**Panel Discussion**

**Lunch Break: 13:00-14:00**

**Closing Ceremony**



# Global Summit on Stroke

August 03-05, 2015 Birmingham, UK

## Features of the collateral circulation in the vertebrobasilar system in the setting of the cervical spinal injury

Mykola Salkov<sup>1</sup>, Vitaliy Tsymbaliuk<sup>2</sup> and Lydmila Dzyak<sup>1</sup>

<sup>1</sup>Dnipropetrovsk State Medical Academy, Ukraine

<sup>2</sup>Institute of Neurosurgery Named After AP Romodanov of the National Academy of Medical Science, Ukraine

**Introduction:** Trauma of the vertebral arteries in the setting of the cervical spinal injury is one of the reasons of the cerebellar stroke. We investigated the compensatory mechanisms of blood circulation in the vertebral arteries which hinder the occurrence of the stroke.

**Purpose:** Investigation of the mechanisms of the compensation of cerebral circulation in the setting of the trauma of vertebral arteries.

**Methods:** We conducted magnetic resonance imaging examination and angiography of the cervical and vertebral arteries in three patients with a dislocation fracture of the cervical region of vertebral column. In two cases we conducted the morphological examination of injured vertebral arteries, cerebellum and brainstem.

**Results:** In one patient with a dislocation fracture of C4-C5 there was a posttraumatic occlusion of both vertebral arteries. Blood circulation in unaffected regions of vertebral arteries and brain was conducted through collateral vessels. In one patient there was a dislocation fracture of C3-C4. Unilateral vertebral artery occlusion was found. Cerebral circulation occurred through the contralateral artery and by retrograde blood flow. In the patient with a dislocation fracture of C6-C7 one vertebral artery was injured with no evidence of total occlusion. Hemodynamic changes were not found. Morphological examination indicated the presence of injury of the vertebral artery wall at the site of a dislocation fracture and arterial thrombosis.

**Conclusions:** Blood circulation in the vertebrobasilar system in the setting of the trauma of vertebral arteries may occur through collateral vessels or by retrograde blood flow. Thrombosis and occlusion occurs in the arteries in the setting of the trauma of vertebral arteries in consequence of a dislocation fracture.

### Biography

Mykola Salkov has worked as a Neurosurgeon in Dnipropetrovsk Regional hospital (Ukraine). He has also worked as Assistant Professor of Neurological Surgery of the Dnipropetrovsk State Medical Academy (Ukraine). He has completed his PhD in Medical Sciences (Neurosurgery) in June 2005.

[salkov@ua.fm](mailto:salkov@ua.fm)

### Notes: