

Fiona, CHEN Xiang Yan
(Assistant Professor)



[Last update: 15 July 2019]

QUALIFICATIONS

- | | |
|------|--|
| 2006 | PhD, The Department of Anatomical and Cellular Pathology, Faculty of Medicine, The Chinese University of Hong Kong |
| 2003 | Master in the Department of Neurology, The First Affiliated Hospital of Sun Yat-sen University, Sun Yat-sen University |
| 2000 | Bachelor in Medicine, Shandong Medical University |

BRIEF OUTLINE OF EXPERIENCE AND POSTS HELD

- | | |
|-------------------|--|
| 05/2018 – present | Assistant Professor, Department of Health Technology and Informatics, Faculty of Health and Social Sciences, The Hong Kong Polytechnic University
Adjunct Assistant Professor, Department of Medicine & Therapeutics, The Chinese University of Hong Kong |
| 2016-2019 | Visiting Professor, Guangzhou Chinese Medicine University |
| 01/2013 – 05/2018 | Research Assistant Professor, Department of Medicine & Therapeutics, The Chinese University of Hong Kong |
| 01/2012-12/2012 | Research Associate, Department of Medicine & Therapeutics, The Chinese University of Hong Kong |
| 09/2008-12/2011 | Post-doctoral Fellow, Department of Medicine & Therapeutics, The Chinese University of Hong Kong |
| 09/2006 – 08/2008 | Research Assistant, Department of Medicine & Therapeutics, The Chinese University of Hong Kong |

RESEARCH INTERESTS

My research focuses on exploring the pathophysiology and imaging features of stroke caused by intracranial atherosclerosis, which includes a series of laboratory experiments to investigate the histopathology of cerebral artery disease, as well as multiple clinical studies to validate the clinical applications of variant investigation tools, such as brain CT, MRI and transcranial Doppler.

SERVICE TO PROFESSIONAL & SCIENTIFIC BODIES, CONSULTANCY, MEMBERSHIP OF PROFESSIONAL & LEARNED SOCIETIES

- 2014-2017 Editorial Board Member, Membership of Annals of Translational Medicine
- 2012-present Reviewer for several journals including: Stroke; Journal of Neurology, Neurosurgery, and Psychiatry; Cerebrovascular Disease; Journal of Neuroimaging; Neuroradiology; European Neurology; International Journal of Stroke; Journal of Neurological Science

REPRESENTATIVE PUBLICATIONS AND CONFERENCE PAPERS

(Peer-reviewed Journal Articles>80. *Asterisk denotes corresponding author):

- Li J, Li KS, **Chen XY***. Inflammation-regulatory microRNAs: Valuable targets for intracranial atherosclerosis. *J Neurosci Res*. 2019 Jun 28. doi: 10.1002/jnr.24487. [Epub ahead of print].
- Yang WJ, Zheng L, Wu XH, Huang ZQ, Niu CB, Zhao HL, Leung WL, Wong KS, **Chen XY*** Postmortem Study Exploring Distribution and Patterns of Intracranial Artery Calcification. *Stroke*. 2018 Nov;49(11):2767-2769. doi: 10.1161/STROKEAHA.118.022591.
- Zheng L, Yang WJ, Niu CB, Zhao HL, Wong KS, Leung TWH, **Chen XY***. Correlation of Adventitial Vasa Vasorum with Intracranial Atherosclerosis: A Postmortem Study. *Journal of Stroke*. 2018 Sep;20(3):342-349. doi: 10.5853/jos.2018.01263. Epub 2018 Sep 30.
- **Chen XY***, Yang WJ, Chu CW, Wong KS, Leung TWH. High-resolution magnetic resonance vessel wall imaging of chronic intracranial internal carotid artery occlusion. *J Neuroradiol*. 2018 Sep;45(5):336-337. doi: 10.1016/j.neurad.2018.04.005. Epub 2018 May 9.
- Wu X, Wang L, Zhong J, Ko J, Shi L, Soo Y, Leung T, Wong KS, Abrigo J, **Chen X***. Impact of intracranial artery calcification on cerebral hemodynamic changes. *Neuroradiology*. 2018 Apr;60(4):357-363. doi: 10.1007/s00234-018-1988-2. Epub 2018 Feb 9.
- Yang WJ, Fisher M, Zheng L, Niu CB, Paganini-Hill A, Zhao HL, Xu Y, Wong KS, Ng HK, **Chen XY***. Histological Characteristics of Intracranial Atherosclerosis in a Chinese Population: A Postmortem Study. *Front Neurol*. 2017 Sep 25;8:488. doi: 10.3389/fneur.2017.00488. eCollection 2017.
- Yang WJ, Wong KS, **Chen XY***. Intracranial Atherosclerosis: From Microscopy to High-Resolution Magnetic Resonance Imaging. *J Stroke*. 2017 Sep;19(3):249-260. doi: 10.5853/jos.2016.01956. Epub 2017 Sep 6. Review.

- Soo Y, Chan N, Leung KT, **Chen XY**, Mok V, Wong L, Leung T. Age-specific trends of atrial fibrillation-related ischaemic stroke and transient ischaemic attack, anticoagulant use and risk factor profile in Chinese population: a 15-year study. *J Neurol Neurosurg Psychiatry*. 2017 Sep;88(9):744-748. doi: 10.1136/jnnp-2017-315735. Epub 2017 May 26. (IF: 7.35)
- **Chen XY**, Wang Q, Wang X, Wong KS. Clinical Features of Thalamic Stroke. *Curr Treat Options Neurol*. 2017 Feb;19(2):5. doi: 10.1007/s11940-017-0441-x. Review.
- Wu XH, **Chen XY***, Fan YH, Leung TW, Wong KS. High Extent of Intracranial Carotid Artery Calcification Is Associated with Downstream Microemboli in Stroke Patients. *J Stroke Cerebrovasc Dis*. 2016 Nov 3. pii: S1052-3057(16)30395-0. doi: 10.1016/j.jstrokecerebrovasdis.2016.10.007.
- Dieleman N, Yang W, van der Kolk AG, Abrigo J, Lee KL, Chu WC, Zwanenburg JJ, Siero JC, Wong KS, Hendrikse J, **Chen XY***. Qualitative Evaluation of a High-Resolution 3D Multi-Sequence Intracranial Vessel Wall Protocol at 3 Tesla MRI. *PLoS One*. 2016 Aug 17;11(8):e0160781. doi: 10.1371/journal.pone.0160781. eCollection 2016.
- Yang WJ, **Chen XY***, Zhao HL, Niu CB, Zhang B, Xu Y, Wong KS, Ng HK. Postmortem Study of Validation of Low Signal on Fat-Suppressed T1-Weighted Magnetic Resonance Imaging as Marker of Lipid Core in Middle Cerebral Artery Atherosclerosis. *Stroke*. 2016 Jul 26. pii: STROKEAHA.116.013398. [Epub ahead of print]
- **Chen XY***, Dieleman N, Chu WC. Response by Chen et al to Letter Regarding Article, "Magnetic Resonance Imaging of Plaque Morphology, Burden, and Distribution in Patients With Symptomatic Middle Cerebral Artery Stenosis". *Stroke*. 2016 Nov;47(11):e255. (IF=5.787)
- Dieleman N, Yang W, Abrigo JM, Chu WC, van der Kolk AG, Siero JC, Wong KS, Hendrikse J, **Chen XY***. Magnetic Resonance Imaging of Plaque Morphology, Burden, and Distribution in Patients With Symptomatic Middle Cerebral Artery Stenosis. *Stroke*. 2016 Jul; 47(7):1797-802. doi: 10.1161/STROKEAHA.116.013007. Epub 2016 Jun 14.
- Wu XH, **Chen XY***, Wang LJ, Wong KS. Intracranial Artery Calcification and Its Clinical Significance. *J Clin Neurol*. 2016 Jul;12(3):253-61. doi: 10.3988/jcn.2016.12.3.253. Epub 2016 May 10. Review.
- Yang WJ, **Chen XY***, Zhao HL, Niu CB, Xu Y, Wong KS, Ng HK. In Vitro Assessment of Histology-verified Intracranial Atherosclerotic Disease by 1.5T MRI: Concentric or Eccentric? *Stroke*. 2016 Feb;47(2):527-30. doi: 10.1161/STROKEAHA.115.011086.
- Fang H, **Chen XY***, Song B, Cheng B, Xu YM, Wong KS, Ho SS. Intracranial Collateral Flow Estimated by Color Velocity Imaging Quantification Ultrasound: A Protector of Recurrent Stroke in Patient with Carotid Stenosis? *Current Neurovascular Research*, 2016, 13(4), 1-6.
- **Chen XY***, Wong KS, Lam WW, Ng HK. High signal on T1 sequence of magnetic resonance imaging confirmed to be intraplaque haemorrhage by histology in middle cerebral artery. *Int J Stroke*. 2014 Jun;9(4):E19.
- Lin W, Xiong L, Han J, Leung T, Leung H, **Chen X**, Wong KS. Hemodynamic effect of external counterpulsation is a different measure of impaired cerebral autoregulation from vasoreactivity to breath-holding. *Eur J Neurol*. 2014 Feb; 21(2):326-31.
- Leng XY, **Chen XY**, Chook P, Xiong L, Lin WH, Liu JY, Tomlinson B, Thomas GN, Lam TH, Lam KSL, Cheung BMY, Wong KS. Correlation of large artery intracranial occlusive disease with carotid intima-media thickness and presence of carotid plaque. *Stroke*. 2013 Nov; 44(1):68-72.

- Li JJ, **Chen XY**, Soo Y, Abrigo JM, Leung TW, Wong E, Mok V, Cheung JS, Ahuja AT, Zeng JS, Wong KS. Persistent benign oligemia causes CT perfusion mismatch in patients with intracranial large artery occlusive disease during subacute stroke. *CNS Neurosci Ther.* 2013 Aug;19(8):635-7.
- Wang Q, Chen C, **Chen XY**, Han JH, Soo Y, Leung TW, Mok V, Wong KS. Low-molecular-weight heparin and early neurologic deterioration in acute stroke caused by large artery occlusive disease. *Arch Neurol.* 2012 Nov;69(11):1454-1460.
- Wang QS, Chen C, **Chen XY**, Han JH, Soo Y, Leung TW, Mok V, Wong KS. Low-Molecular-Weight Heparin Versus Aspirin for Acute Ischemic Stroke With Large Artery Occlusive Disease: Subgroup Analyses From the Fraxiparin in Stroke Study for the Treatment of Ischemic Stroke (FISS-tris) Study. *Stroke.* 2011 Nov; 43(2): 346-
- **Chen XY**, Thomas GN, Chen YK, Chan JC, Wong KS. Atherosclerotic vascular disease rather than metabolic syndrome predicts ischemic stroke in diabetic patients. *Cerebrovasc Dis.* 2010 Sep; 30(4):374-379.
- Yang J, Fu JH, **Chen XY**, Chen YK, Leung TW, Mok V, Soo Y, Wong KS. Validation of the ABCD2 score to identify the patients with high risk of late stroke after a transient ischemic attack or minor ischemic stroke. *Stroke.* 2010 Jun;41(6):1298-300.
- **Chen XY**, Wong KS, Lam WW, Zhao HL, Ng HK. Middle cerebral artery atherosclerosis: histological comparison between plaques associated with and not associated with infarct in a postmortem study. *Cerebrovasc Dis.* 2008 Nov; 25(1-2):74-80.
- Thomas GN, **Chen XY**, Lin JW, Tomlinson B, Lam WW, Liu R, Yeung VT, Chan JC, Wong KS. Middle cerebral artery stenosis increased the risk of vascular disease mortality among type 2 diabetic patients. *Cerebrovasc Dis.* 2008 Feb; 25(3):261-7.
- **Chen XY (1st author)**, Lam WW, Ng HK, Fan YH, Wong KS. Intracranial artery calcification: a newly identified risk factor of ischemic stroke. *J Neuroimaging.* 2007 Oct, 17(4):300-303
- **Chen XY**, Lam WW, Ng HK, Zhao HL, Wong KS. Diagnostic accuracy of MRI for middle cerebral artery stenosis: a postmortem study. *J Neuroimaging.* 2006 Oct, 16(4):318-322.
- **Chen XY**, Lam WW, Ng HK, Fan YH, Wong KS. The frequency and determinants of calcification in intracranial arteries in Chinese patients who underwent computed tomography examinations. *Cerebrovasc Dis.* 2006, 21(1-2):91-97.

Books Chapters

- **Chen XY**, Fisher M. Intracranial Atherosclerosis. New Jersey: Hoboken Wilney-Blackwell; c2008. Chapter 2, Pathologic Characteristics;
- Zeng JS, **Chen XY**. Consultant Guidelines for Physicians. Guandong Science and Technology Publishing House; c2002. Peri-operational Neurological Disease (In Chinese);
- **Chen XY**, Fisher M. Frontiers of Neurology and Neuroscience. Pathological Characteristics;

Books Edited

- Wong LKS, Gao S, Chen XY. Intracranial Atherosclerosis. People's Medical Publishing House; c2009 (In Chinese)

Invited speech

- **Chen XY**, Physiopathology: comparison with extra-cranial atherosclerosis. *European Stroke Organization Conference 2017, Prague, Czech Republic (16-18/05/2017) (Keynote Speech)*
- **Chen XY**, Intracranial Atherosclerosis (ICAS): From Pathology to High-resolution MRI. *National Cerebrovascular Conference 2015, Jeru, Korea (09-11//09/2016) (Keynote Speech)*
- **Chen XY**, Pathological Characteristics of Intracranial Atherosclerosis (ICAS). *The 3rd International Conference on Intracranial Atherosclerosis and Annual Spring Meeting of the Korean Stroke Society, Seoul, Korea. (18-20/6/2008) (Keynote Speech)*

RESEARCH AWARDS

Year 2011, **The Natural Science Award, Class I**, of the Higher Education Outstanding Scientific Research Output Awards, Organized by the Ministry of Education

Title: Intracranial Large Artery Atherosclerotic Stroke: Epidemiology, Diagnosis, Pathogenesis, Imaging and Treatment.

Contributors: Lawrence Ka-sing Wong, Thomas Wai-hong Leung, Simon Chun-ho Yu, Vincent Chung-tong Mok, **Fiona Xiang-yan Chen**