

Impact of obesity induced diabetes on functional recovery after stroke

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Abstract

There is considerable debate on how diabetes mediates recovery after stroke. Studies to unravel the underlying mechanisms are critical in efforts to develop therapies to improve poor post-stroke recovery profiles in diabetes induced obesity population. A recent preclinical study showed that the stroke-induced neurogenesis and neuroplasticity is severely impaired due to obesity-induced type 2 diabetes. However, factors such as interactions between microvascular changes, oxidative stress and insulin resistance (IR); and their role in poor recovery profiles in diabetes population warrant further consideration. Understanding of these mechanisms is important in developing cardiovascular risk-management pathways in this subgroup of population who are at increased risk of poor clinical outcomes following acute stroke.



Biography:

Sonu Bhaskar is an award-winning Clinician-Scientist, Academic Neurologist and Clinical Trialist with a specialisation in vascular neurology and neuroradiology. He is a Researcher with a strong focus on neurovascular imaging, (neuro)-epidemiology and health-systems. He has recently taken an executive role within the University of New South Wales (UNSW) Sydney Deputy Vice-Chancellor Enterprise (DVC-E). He is the Founding Director and Chief Investigator of NSW Brain Clot Bank. He is also the Chief Investigator of Thrombolysis and Endovascular Flow Network (TEFLON) trial – a health systems improvement study to reduce stroke

treatment delays in delivery of reperfusion therapy. He leads the Neurovascular Imaging Laboratory at Ingham Institute for Applied Medical Research and holds conjoint affiliations at the Department of Neurology and Neurophysiology, Liverpool Hospital, South Western Sydney Local Health District (SWSLHD) and South Western Sydney Clinical School, Western Sydney University. He has successfully led many novel initiatives with broader policy implications.. His leadership and translational focus in health systems have attracted several national and international awards and funding. He has been the recipient of prestigious national and international awards for his translational focus including EU Marie Curie Fellowship, Spanish Ministry of Health Fellowship, Dutch Ministry Top Talent Award in Biomedical Sciences and Medical Innovation and Prof AR Rao Young Scientist Award. His work has been published in several prestigious journals including Nature Scientific Reports, Annals of Clinical and Translational Neurology, BMC Neurology, Clinical Science and Journal of Cerebral Blood Flow and Metabolism. He is the Chair of the Young and Emerging Leaders for Health Partnerships initiative and Convenor of Partnerships for Better Health International Symposium. He was recently selected to deliver Inspiring Australia's Talking Science Series talks as part of Sydney Science Festival in National Science Week. He is passionate about compassionate healthcare leadership, human and ethical innovation and patient-centred care.

[13th International Conference on Diabetes, Endocrinology & Metabolism](#); January 29-30, 2020, Sydney, Australia.

Abstract Citation:

Sonu Bhaskar, Impact of obesity induced diabetes on functional recovery after stroke, World Diabetes 2020, 13th International Conference on Diabetes, Endocrinology & Metabolism; January 29-30, 2020, Sydney, Australia.