

Stroke: The past, present and future

I. Mhairi Macrae¹ and Stuart M. Allan²

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Since the inception of the British Neuroscience Association, there have been major advances in our knowledge of the mechanistic basis for stroke-induced brain damage. Identification of the ischaemic cascade led to the development of hundreds of new drugs, many showing efficacy in preclinical (animal-based) studies. None of these drugs has yet translated to a successful stroke treatment, current therapy being limited to thrombolytic/thrombectomy. However, this translational failure has led to significant improvements in the quality of animal-based stroke research, with the refinement of rodent models, introduction of new technologies (e.g. transgenics, *in vivo* brain imaging) and improvements in study design (e.g. STAIR, ASTRIVE and IMPROVE guidelines). This has run in parallel with advances in clinical diagnostic imaging for detection of ischaemic versus haemorrhagic stroke, differentiating penumbra from ischaemic core, and improved clinical trial design. These preclinical and clinical advances represent the foundation for successful translation from the bench to the bedside in the near future.

Keywords

Stroke, cerebral ischaemia, preclinical, brain injury

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Clinical diagnosis of stroke: a transformational story

Significant advances in brain imaging mean that stroke patients can now expect an acute diagnostic scan to differentiate between haemorrhagic, ischaemic and stroke mimics when admitted to hospital (Heit and Wintermark, 2017). If the stroke is ischaemic, the occluded vessel can be identified and time from stroke onset used to determine whether thrombolysis, to break down an occluding embolus/thrombus, or endovascular embolus/thrombus extraction (thrombectomy) is warranted. Thrombolytic treatment with intravenous recombinant tissue plasminogen activator (IV rTPA), given up to 4.5 h from stroke onset, significantly increases the prospect of a good recovery, with the greatest benefit seen with the shortest onset-to-treatment times (Röther et al., 2013).

In patients where a large proximal occlusion is identified, endovascular thrombectomy within 6 h of stroke onset improves the chance of a good outcome (Powers et al., 2015). However, less than 10% of acute ischaemic stroke patients receive intravenous thrombolysis in most centres and only 7%–15% are expected to qualify for acute endovascular intervention (Henninger and Fisher, 2016). Therefore, there is significant scope for stroke researchers (clinical and preclinical) to develop strategies for more patients to benefit from thrombolysis/thrombectomy and test new therapies as adjunct or stand-alone treatments for patients where thrombolysis/thrombectomy is contraindicated.

Ischaemic stroke patients being considered for recruitment into a clinical trial may also have a computed tomography (CT)

or magnetic resonance imaging (MRI) ‘penumbra’ scan to identify how much tissue affected by the stroke is still capable of recovery (Warach et al., 2016). Since penumbral tissue has a limited lifespan of hours and available tissue for salvage varies significantly in the patient population, penumbral imaging also ensures that only patients with remaining biological target tissue are recruited into acute stroke therapeutic trials (Mair and Macrae, 2016). The lack of penumbral imaging in the early, unsuccessful clinical neuroprotection trials, some of which recruited patients at time points beyond the likely survival of penumbra, is likely to have resulted in recruitment of stroke patients with no remaining target tissue for salvage, thereby diluting the power to detect therapies with potential efficacy. MRI penumbral imaging is now available for longitudinal rodent stroke studies where loss of penumbra over time can be tracked and the consequences of therapeutic intervention determined (Figure 1), thereby providing more informative data on the

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Stroke The Past Present And Future

John Marks Ashley

Stroke The Past Present And Future:

The Timespace of Human Activity Theodore R. Schatzki,2010-04-12 This book shows that a concept of activity timespace drawn from the work of Martin Heidegger provides new insights into the nature of activity society and history Although the book is a work of theory it has significant implications for the determination and course not just of activity but of sociohistorical change as well Drawing on empirical examples the book argues 1 that timespace is a key component of the overall space and time of social life 2 that interwoven timespaces form an essential infrastructure of important social phenomena such as power coordinated actions social organizations and social systems and 3 that history encompasses constellations of indeterminate temporal spatial events The latter conception of history in turn yields a propitious account of how the past exists in the present In addition because the concept of activity timespace highlights the teleological character of human action the book contains an extensive defense of the teleological character of such allegedly ateleological forms of activity as emotional and ceremonial actions Since finally the book's ideas about timespace and activity as an indeterminate event derive from an interpretation of Heidegger the work furthers understanding of the relevance of his thought for social and historical theory The book combines textual interpretation theoretical argumentation and empirical substantiation Many of its empirical examples are taken from the Blue Grass Horse Country around Lexington Kentucky where the author resides

Professional Practice and Learning Nick Hopwood,2016-01-22 This book explores important questions about the relationship between professional practice and learning and implications of this for how we understand professional expertise Focusing on work accomplished through partnerships between practitioners and parents with young children the book explores how connectedness in action is a fluid evolving accomplishment with four essential dimensions times spaces bodies and things Within a broader sociomaterial perspective the analysis draws on practice theory and philosophy bringing different schools of thought into productive contact including the work of Schatzki Gherardi and recent developments in cultural historical activity theory The book takes a bold view suggesting practices and learning are entwined but distinctive phenomena A clear and novel framework is developed based on this idea The argument goes further by demonstrating how new coproductive relationships between professionals and clients can intensify the pedagogic nature of professional work and showing how professionals can support others learning when the knowledge they are working with and sense of what is to be learned are uncertain incomplete and fragile

Klinische neuropsychologie Wouter Lambrecht, Noortje Hermans,2025-09-24 In dit unieke peer reviewed referentiewerk bundelen topexperts uit België en Nederland hun kennis over de nieuwste inzichten in de klinische neuropsychologie en neurorevalidatie De samenwerking tussen vooraanstaande theoretische en klinische experts uit diverse universitaire centra garandeert een solide wetenschappelijke basis en praktische toepasbaarheid Het boek is opgebouwd uit vier overzichtelijke delen In het eerste deel worden de fundamenten gelegd als lezer krijgt je inzicht in de structuur en de functies van de hersenen ziektebeelden diagnostiek revalidatie en

neuropsychotherapie Het tweede deel focust op cognitieve functies zoals o.a. waarneming, aandacht, geheugen, motoriek en negatiek maar belicht ook thema's als sociale cognitie, prikkelgevoelighed en vermoeidheid. In deel drie staan de emotionele gevolgen van hersenletsel centraal van angst, depressie en ziekte, inzicht tot seksualiteit, copingstrategieën en levenskwaliteit. Elk hoofdstuk koppelt een actuele wetenschappelijke onderbouw aan concrete handvatten voor diagnostiek, revalidatie en begeleiding. Het vierde deel ten slotte verkent gespecialiseerde onderwerpen zoals o.a. wakkere hersenchirurgie, rijgeschiktheid, psychotherapie bij afasie en de impact van epilepsie op cognitie. Dit boek is een onmisbaar referentiewerk voor klinisch neuropsychologen, revalidatiespecialisten, artsen, neurologen, psychiaters, gerieters, revalidatie artsen, paramedici, therapeuten en studenten die op een evidencebased manier willen werken binnen de neurorevalidatie en die daarbij het verschil willen maken wetenschappelijk en menselijk. Onder redactie van Wouter Lambrecht en Noortje Hermans. Met bijdragen van Kurt Beeckmans, Paul Boon, Anne Buunk, Charlotte Christiaens, Ann De Smedt, Sara De Witte, Natacha Deroost, Eva Dierckx, Sebastiaan Engelborghs, Mahyar Firouzi, Celine Gillebert, Noortje Hermans, Lara Hogeveen, Dymphie In de Braek, Daphne Kos, Christophe Lafosse, Wouter Lambrecht, Engelien Lannoo, Dirk Liessens, Guy Lorent, Marijke Miatton, Karla Michiels, Veronique Michiels, Gudrun Nys, Kristine Oostra, Yani Ramioulle, Ilka Ringoot, Joke Spikman, Annelies Taelman, Mark Tant, Hella Thielen, Valérie Thys, Nora Tuts, Gunther Van Bost, Nathalie Vaes, Kathleen Vancleef, Dorien Vandenborre, Katrien Vermeulen, Guy Vingerhoets, Kristl Vonck, Peggy Wackenier, Marjon Westerhof, Evers, Ineke Wilssens. Met een woord vooraf van Evert Thiery.

[The Tabernacle and the Temple](#) Thomas Newberry, 1887 [The Lady's Realm](#), 1898 [The London Quarterly Review](#) William Lonsdale Watkinson, William Theophilus Davison, 1867 [History of woman suffrage. Vol.1-3, ed. by E.C. Stanton, S.B. Anthony, and M.J. Gage; vol.4, ed. by S.B. Anthony and I.H. Harper; vol.5,6, ed. by I.H. Harper](#) Susan Brownell Anthony, Ida Husted Harper, Elizabeth Cady Stanton, 1882 **The Philosophy of Time** L. Nathan Oaklander, 2008

The Philosophy of Time is a new title in the Routledge series Critical Concepts in Philosophy. It meets the need for an authoritative reference work to make sense of the subject's vast literature and the continuing explosion in research output. Edited by L. Nathan Oaklander, a leading scholar in the philosophy of time, this new Major Work from Routledge brings together in four volumes the canonical and the very best cutting edge scholarship in the field to provide a synoptic view of all the key issues and current debates.

[My Back Nine](#) Tony Caico, 2010-12-29 After riding the gravy train for more than ten years in the mortgage banking industry, author Tony Caicos' industry and his life met at an intersection and crashed. His worth was so closely tied to what he did for a living that he no longer knew who he was. After some careful soul searching, his healing began and he put his life back on track. Using the back nine holes of a golf course as a guide, Caico uses his experiences to help others analyze what they need to do better to truly enjoy the second half of their lives. Each golf hole represents one of the following nine key life components: family, health and wellness, knowledge, career, spirituality, leadership, relationships, self improvement and happiness. In [My Back Nine](#), Caico synthesizes current thinking and research on careers,

evaluating strengths and formulating life plans to offer a guide to making changes for the better The essential qualities needed for success in golfpreparation focus patience discipline integrity and honestyare the same qualities necessary to be successful in life My Back Nine shows how both life and sports can often create real winners on and off the playing field

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The Newberry Bible ,1890 *History of Woman Wuffrage* Elizabeth Cady Stanton,1882 **Brain Ischemia** E. I. Gusev,Veronika I. Skvortsova,2003-04-30 Highlighting concepts of brain ischemia this book looks at the molecular mechanisms of its development leading to brain tissue changes and describes strategies of neuroprotective therapy Coverage includes cellular reactions in response to acute focal brain ischemia microglial activation and local inflammation in focal brain ischemia programmed cell death primary and secondary neuroprotection gangliosides and modern therapeutic approaches to acute focal brain ischemia The authors are neurologists affiliated with the Russian State Medical University Annotation c 2003 Book News Inc Portland OR booknews com *Chambers's Edinburgh journal, conducted by W. Chambers. [Continued as] Chambers's Journal of popular literature, science and arts* Chambers's journal,1872 **The Nineteenth Century ,1884** **History of Woman Suffrage** Elizabeth Cady Stanton,Susan Brownell Anthony,Matilda Joslyn Gage,1881 Chambers's Journal of Popular Literature, Science and Arts ,1872

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