
prof. MUDr. Pavel Kalvach, CSc.



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Department of Neurology 3FM CU and UHKV
<https://www.lf3.cuni.cz/3LFEN-349.html>

Topic title

Capacity of language skills (naming and repetition) in motherlanguage vs foreign languages. Insufficient knowledge compared with disease deficits.

Description of scientific activity

Board certified neurologist since 1975. PhD on „Cerebral perfusion“ in 1984. In 1988 appointed chairman of Dept. of Neurology, Cz Institute for Postgraduate Medicine, with responsibility for neurological board certifications in Czechoslovakia. 1991-1994 he attended a collaborative research on „Cerebrovascular disease“ in the extent of 4 x 3 months at Yale, New Haven, Connecticut, USA. In 1996 -2006 worked as chairman of Dept. of Neurology, 3rd Medical faculty, Charles University in Prague. In the European Federation of Neurological Societies (EFNS) appointed General secretary in 1999 (4 years) and later Vicepresident in 2003 (4 years). Main author of „Cerebral ischaemia and haemorrhage“, 3 editions in Czech, 1985, updated 1996 and 2010, awarded by 2 national prizes in Czechoslovakia.

The research activities were devoted to cerebral blood flow, investigations of dependence between carotid blood flow in ultrasonography and leukoaraiosis, haemodynamics in normal and stenotic carotid blood bed, capacity of cerebral vasodilatation and constriction influenced by breath holding and hyperventilation. One component was also a collaborative research using Positron Emission Tomography in brain injury, provided by a Swiss-Czech grant in Graubünden. After his engagement in topics of stroke and haemodynamics he studied factors of mental deterioration in senium and the interface between normal aging and Alzheimer's disease. The last years were devoted to observations in the faculties of language, namely to the capacity of repetition and naming in normal persons of various age as well as in the aphasic patients. During these activities he acted as organizer in educational projects of the European Federation of Neurological Societies, with 19 courses for young neurologists in our country and some 12 courses abroad. For several years he participated in editorial boards of some journals, like Remedica, Česká a slovenská Neurol. a Neurochir. or Journal of the Neurological Sciences.

Selected publications

GRAHAM, Glenn and KALVACH, Pavel and BLAMIRE, AM et al. Clinical correlates of Proton Magnetic Resonance Spectroscopy findings after acute cerebral infarction. Stroke, 1995, vol. 26, p. 225-229. IF 5,528

KALVACH, Pavel, GREGOVÁ, Daniela, ŠKODA, Ondřej, PEISKER, Tomáš, TERMEROVÁ, Jana, KORSA, Jaroslav. Cerebral blood supply with aging: Normal, stenotic and recanalized. J Neurol Sci, 2007, vol. 257, no. 1-2, s. 143-148. (IF: 2.315)

Connolly, SJ; Yusuf, S; Camm, J; Chrolavicius, P; KALVACH, Pavel; Pěnička, M; Widimský, P; Herold, M. Effect of Clopidogrel Added to Aspirin in Patients with Atrial Fibrillation. New England Journal of Medicine, 2009, vol. 360, no. 20, s. 2066-2078. (IF: 47.05)

KALVACH, Pavel, VOGNER, Martin. Parting with the Concept of Alzheimer's Disease in Senium. OBM Geriatrics 2019, volume 3, issue 3, doi:10.21926/obm.geriatr.1903060

Selected or ongoing grants/clinical studies

2020-2026: TheraLymph –Gene Therapy to restore lymphatic flow lymphedema, H2020 SC1-BHC-07-2019, Project # 874708

2021-2024: Novel approaches to enhance insulin-sensitizing effects of exercise: targeting PAHSA metabolism ETAPA; Czech Health Research Council project NU21-01-00469

2019 - 2022: Pancreatic cancer: metabolic derangements associated with insulin resistance (PAMIR), Czech Health Research Council project NV19-01-00101, Co-PI: Lenka Rossmeislova

PhD Students

Number of PhD students currently studying : 0

Number of defended students with year of defence: 6 (2007, 2008, 2012, 2014, 2016, 2021)