

Masaryk University	
Faculty	Faculty of Medicine
Procedure field	Surgery
Applicant	MUDr. Jiří Fiedler, Ph.D.
Applicant's home unit, institution	Faculty of Medicine, Masaryk University
Habilitation thesis	Urgent microsurgery in emergent middle cerebral artery occlusion and standard therapy failure
<u>Board members</u>	
Chair	prof. MUDr. Radim Jančálek, Ph.D., MBA <i>Faculty of Medicine, Masaryk University</i>
Members	doc. MUDr. Tomáš Česák, Ph.D. <i>Neurochirurgická klinika FN v Hradci Králové a LF UK v Hradci Králové</i> Fady T. Charbel, MD, FAANS, FACS <i>Department of Neurosurgery, University of Illinois, Chicago, IL, USA</i> prof. MUDr. Martin Sameš, CSc. <i>Fakulta zdravotnických studií Univerzity J. E. Purkyně v Ústí nad Labem</i> prof. MUDr. Martin Smrčka, Ph.D., MBA <i>Faculty of Medicine, Masaryk University</i>

Evaluation of the applicant's scholarly/artistic qualifications

Jiří Fiedler, M.D., Ph.D., completed his studies at the First Faculty of Medicine, Charles University, Prague, in 1995 (study program: General Medicine). After graduation, he started his clinical career at the Neurosurgery Department of the České Budějovice Hospital, where he remains up to now. He gradually obtained first-degree board certification in general surgery and, in 2003, a full specialized qualification in neurosurgery. In 2011, he received his Ph.D. degree by successfully defending his dissertation at the Faculty of Medicine, Masaryk University, Brno, on the topic "Position of intraoperative ultrasound methods during brain revascularization by extra-intracranial bypass." Dr. Fiedler held the position of deputy head of the Neurosurgical Department at České Budějovice Hospital from 2012 to March 1, 2023, when he was appointed department head.

The research qualification of Dr. Fiedler is documented by his authorship or co-authorship of 24 articles published in medical journals. Of that number, 21 works were published in journals with impact factor (cumulative IF 47,763), and in 10 of them, he was the first or corresponding author (two papers published in periodicals belonging to the Q1 in the neurosurgery field).

Jiří Fiedler, M.D., Ph.D., is a co-investigator in one ongoing grant project of the Czech Health Research Council and a co-investigator in two already-finished grant projects supported by the same grant agency. He also participated in a grant project of the Department of Neurosurgery, Stroke Center, NTT Medical Center, Tokyo, Japan, and is involved in an international consortium dealing with the ACST-2 clinical study comparing the effect of carotid stenting and surgical endarterectomy in asymptomatic carotid stenosis.

Based on mentioned above, we can conclude that Dr. Fiedler is an experienced clinician, university teacher, and researcher with evidenced impact on science in the field of Neurosurgery.

Conclusion: The applicant's scholarly/artistic capabilities **meet** the requirements expected of applicants participating in a habilitation appointment procedure in the field of Surgery.

Evaluation of the applicant's pedagogical experience

Jiří Fiedler, M.D., Ph.D., has been regularly participating in teaching pregraduate students at the Faculty of Medicine, Masaryk University, Brno, since 2012. Since 2015, he has also been involved in teaching students at the Faculty of Medicine, Charles University in Pilsen. He is the co-author of 2 teaching texts published by Galén and Maxdorf publishing houses and the author of the educational video materials published by Operative Neurosurgery magazine in 2019.

Conclusion: The applicant's pedagogical capabilities **meet** the requirements expected of applicants participating in a habilitation appointment procedure in the field of Surgery.

Habilitation thesis evaluation

The habilitation work of Dr. Fiedler, "Urgent microsurgery in the treatment of acute occlusion of the middle cerebral artery when standard therapy has failed," summarizes his long-term professional interest in the field of cerebrovascular neurosurgery. The work is written as an annotated summary of 6 publications focused on the surgical treatment of stenosis or occlusion of the supply cerebral arteries.

After an initial summary of the development in treating patients with the main cerebral arteries occlusion, Dr. Fiedler systematically deals with the surgical anatomy of the occlusion of the middle cerebral artery and subsequently presents the issue of the emergent surgical solution of the arterial occlusion in case of endovascular intervention failure. Most of the works published so far on this topic were only case reports providing

the innovativeness of the author's complex work on a global scale. The completion of his long-lasting professional and scientific efforts was the implementation of a prospective clinical study evaluating the clinical results of surgical treatment in a group of patients with acute occlusion of the cerebral artery after the failure of endovascular therapy. This international multicentric clinical trial was registered under the code NCT05153642 and reference number 109/17. In a small but sufficient sample of patients, Dr. Fiedler demonstrated a statistically significant improvement in the clinical condition of patients who underwent acute surgical intervention compared to those without surgical treatment.

The habilitation thesis was reviewed by three respected experts in the field of neurosurgery. All reviewers agreed that the habilitation thesis of Dr. Fiedler presents new knowledge in the field of cerebrovascular surgery and has good scientific potential.

Conclusion: The applicant's habilitation thesis **meets** the requirements expected of habilitation theses in the field of Surgery.

Secret vote results

Voting took place: electronically

Number of board members		5
Number of votes cast		5
of which	in favour	5
	against	0

Board decision

Based on the outcome of the secret vote and following an evaluation of the applicant's scholarly or artistic qualifications, pedagogical experience and habilitation thesis, the board hereby submits a proposal to the Scientific Board of the Faculty of Medicine of Masaryk University to **appoint the applicant associate professor** of Surgery.

In Brno on 24.07.2023

prof. MUDr. Radim Jančálek, Ph.D., MBA

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