

<b>Masaryk University</b>	
<b>Faculty</b>	Faculty of Medicine
<b>Procedure field</b>	Anaesthesiology, Intensive Medicine and Algeziology
<b>Applicant</b>	MUDr. Jan Maláška, Ph.D.
<b>Applicant's home unit, institution</b>	Faculty of Medicine, Masaryk University
<b>Habilitation thesis</b>	Sepsis, circulatory failure and ARDS – epidemiology, prediction and treatment options
<b><u>Board members</u></b>	
<b>Chair</b>	prof. MUDr. Karel Cvachovec, CSc., MBA <i>2. Lékařská fakulta UK, Praha</i>
<b>Members</b>	doc. MUDr. Martina Kosinová, Ph.D. <i>Faculty of Medicine, Masaryk University</i> prof. MUDr. Jan Beneš, Ph.D. <i>KARIM Lékařská fakulta v Plzni UK a FN Plzeň</i> prof. MUDr. Jan Pachl, CSc. <i>KAR FNKV a 3. LF UK</i> Prof. Anders Perner <i>Rigshospitalet, University of Copenhagen, Denmark</i>

### Evaluation of the applicant's scholarly/artistic qualifications

MUDr. Jan Maláška, Ph.D., EDIC, graduated as MD at the Faculty of Medicine, Masaryk University, Brno in 1999. He trained at several departments of Oncology in Brno. In 1999-2003 he was simultaneously also employed as a scientific worker at the Department of Biophysics, Faculty of Medicine, Masaryk University. Further, since 2005 he worked at Department of Anaesthesiology and Intensive Care Medicine, Faculty of Medicine, Masaryk University. He worked first as a junior academician, later as a Vice-Chair for Research and Development and even further as a Vice-Chair for Education. At present he is employed at the 2nd Dept. of Anaesthesiology of University Hospital Brno and Department of Paediatric Anaesthesiology and Intensive Care Medicine, Faculty of Medicine and University Hospital Brno as junior academician. Since 2021 he is also junior academician at the Department of Simulation Medicine, Faculty of Medicine, Masaryk University. He attained first the qualification 1st grade in Internal medicine in 2002 and acquired the status of the fully qualified specialist in Internal medicine in 2006. He acquired his Ph.D. in the field of Oncology at the Faculty of Medicine, Masaryk University in Brno in 2007 by defending his doctoral thesis Telomers and telomerase in Oncology. Since 2008 he holds European Diploma in Intensive Medicine EDIC. He attained full specialisation in Anaesthesiology and Intensive Medicine passing required examination in 2023. His publication touch upon a broad range of topics of life-threatening conditions, their biological nature and possibilities of diagnostics and therapy. He published 18 original works in scientific periodical with IF and another 7 in domestic peer-reviewed journals accessible in international databases. He attained H-index of 10. His cumulative IF index is 57,133. According to Web of Science he was cited – without auto citations – 365 times. He presented 10 invited lectures at national scientific conferences and one at international forum. His publications received public honours. Czech Society of Anaesthesiology and Intensive Care Medicine awarded him prize for best book in 2020, and two prizes in 2022: one for the best publication in local scientific peer-reviewed journal and for the best publication in foreign journal with IF. Since 2007 he is a member of Scientific Committee for doctoral studies in Anaesthesiology, Intensive Medicine and Algesiology at the Faculty of Medicine, Masaryk University. At present he is a supervisor of the three Ph.D. students. He was principal investigator for successfully accomplished grants financed by Ministry of Health (2) and Grant Agency of the Czech Republic (1). He spent two study stays abroad. Required criteria of scientific activity at Faculty of Medicine, Masaryk University are surpassed with great margin.

**Conclusion:** The applicant's scholarly/artistic capabilities **meet** the requirements expected of applicants participating in a habilitation appointment procedure in the field of Anaesthesiology, Intensive Medicine and Algeziology.

### Evaluation of the applicant's pedagogical experience

History of the teaching activities of Dr Maláška is of long duration and very impressive. At Faculty of Medicine, Masaryk University he teaches students both in Czech and in English language. His teaching activities include lectures, workshops and seminars, more in magisterial than in Bc. study programmes. His lectures include topics Intensive Care (28 – 22 terms), Resuscitation and Intensive Medicine (20 – 18 terms), Emergency Care (16 – 2 terms in Mgr. and 16-14 terms in Bc. programmes), further Introduction to Surgery course (20 terms) and First Aid (8 – 5 terms), both in Mgr. programmes. In Mgr. programmes he also led workshops (22 – 5 terms) and seminars (20 -18 terms). He wrote a chapter in a book and edited another two scientific books suitable for postgraduate education. He also authored an e-learning presentation for undergraduate education. Habilitation Board finds his pedagogic involvement in Master's and Bachelor's study programmes long-term and systematic.

**Conclusion:** The applicant's pedagogical capabilities **meet** the requirements expected of applicants participating in a habilitation appointment procedure in the field of Anaesthesiology, Intensive Medicine and Algeziology.

### Habilitation thesis evaluation

Habilitation thesis consists of 63 pages of original text (with 34 pages of references, 211 altogether) and 94 pages of annexes. The thesis is conceived as an aggregate of commented and earlier published original works by Dr Maláska. All this works were first subjected to rigorous review process and we quoted later as citations. The thesis touches upon several topics, all involving patients in various critical conditions. Presented information are highly relevant and contribute to the expansion of knowledge and evolution of medical practice. First topic is focused on epidemiology of sepsis, septic shock and mortality of these conditions. Research project EPOSS is described. In the second part author focuses on long term results and complications of the septic states. Described are processes of enhanced vascular and endothelial senescence. Author also mentions possible role of previously investigated shortening of telomeres. In the third part the problems of cardiogenic and septic shock are discussed. Proinflammatory cytokines are suggested as a possible link of these phenotypes. In last part author focuses on ARDS in connection with pulmonary lesion inflicted by COVID-19 and the therapeutic role of corticosteroids. His thesis proves deep insight of the author into these issues and his ability of systematic scientific work. All three opponents assessed the habilitation thesis as unequivocally fulfilling criteria and requirements of Faculty of Medicine for habilitation.

**Conclusion:** The applicant's habilitation thesis **meets** the requirements expected of habilitation theses in the field of Anaesthesiology, Intensive Medicine and Algeziology.

**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 Anaesthesiology, Intensive Medicine and Algeziology.

In Brno on 05.03.2024

prof. MUDr. Karel Cvachovec, CSc., MBA