

Curriculum vitae: Jan Bělohlávek, M.D., PhD.

Born Feb 20, 1971. Married, 4 children.

Pregraduate education 1989–1995 1st Medical School, Charles University Prague, Czech Republic, Med. license number 24804

Postgraduate education 1998 **Boards in Internal Medicine**
2002 **Boards in Cardiology**
2008 **Boards in Angiology**
2011 **Boards in Critical Care**
2009 **PhD**, Charles University Prague

Positions and employment 1995-1996 Resident, Dept. of Clin. Biochemistry – FH Bulovka, Prague
1996-2000 Fellow, Dept. of Internal Medicine IV, General University Hospital, Prague
2000–today Consultant in Cardiology and Critical Care, Dept. of Internal Medicine II, Cardiovascular Medicine, General University Hospital, Prague

Current position: **Deputy of the Head** of the Dept. of Int. Med. II, Cardiology and Angiology
Since 2002 - CCU director, Consultant in Cardiology, Angiology and Critical Care Medicine, Heart Failure Clinic coordinator
ECMO team coordinator of the General University Hospital, Prague
Licensure: diagnostic and interventional cardiology – since 2007

Teaching and Research activities **Professor of Medicine**, 1st Medical School, Charles University in Prague
Senior researcher in the Experimental laboratory at the Dept. of Physiology, 1st Medical School, Charles University in Prague
Coauthor US patent 10,687,781B2, Hemodynamic Monitoring Device and Methods
Primary investigator of several Research grants, Agency for Health Research, Ministry of Health, Czech republic

Memberships and activities in medical societies **Euro-ELSO** (Extracorporeal life support organization) – **President 2019-2022**, member of the Steering Committee 2018-2023
EuroELSO Working Group on ECPR, Chair
Czech Association of Acute Cardiac Care, **Chairman** of the steering committee for 2017-2020, Steering Committee member. Czech Society of Cardiology and Czech Society of Intensive Care, **member** of the steering committee
Euro-ELSO 2018 Conference President
Publications on WoS: 217, citations: 10434, H-index: 36
Best publication 2022 award:
Czech Society of Intensive Care Medicine;
„The best of cardiology 2022“ – Czech Society of Cardiology;
The Best Research publication, Czech Medical Society 2022
Proctor, lecturer for Getinge, Proctor, lecturer for Abiomed, Lecturer for Resuscitec, Lecturer for Xenios, Advisory board member and lecturer for Medtronic, Fresenius, AstraZeneca, Novartis, Boehringer Ingelheim, Bayer

Awards:

Conflicts of interest:

Date: Sep 20, 2023

Jan Bělohlávek, M.D., PhD



Recent publications 2022-2023

Jan Bělohlávek, MD, PhD

1. **BĚLOHLÁVEK, Jan** - ŠMALCOVÁ, Jana - ROB, Daniel - FRANĚK, Ondřej - ŠMÍD, Ondřej - POKORNÁ, Milana - HORÁK, Jan - MRÁZEK, Vratislav - KOVÁRNÍK, Tomáš - ZEMÁNEK, David - KRÁL, Aleš - HAVRÁNEK, Štěpán - KAVÁLKOVÁ, Petra - KOMPELENTOVÁ, Lucie - TOMKOVÁ, Helena - MEJSTŘÍK, Alan - VALÁŠEK, Jaroslav - PEŘAN, David - PEKARA, Jaroslav - RULÍŠEK, Jan - BALÍK, Martin - HUPTYCH, Michal - JARKOVSKÝ, Jiří - MALÍK, Jan - VALERIANOVÁ, Anna - MLEJNSKÝ, František - KOLOUCH, Petr - HAVRÁNKOVÁ, Petra - ROMPORTL, Dan - KOMÁREK, Arnošt - LINHART, Aleš. Effect of Intra-arrest Transport, Extracorporeal Cardiopulmonary Resuscitation, and Immediate Invasive Assessment and Treatment on Functional Neurologic Outcome in Refractory Out-of-Hospital Cardiac Arrest: A Randomized Clinical Trial. *JAMA: The Journal of the American Medical Association*. 2022, 327(8), 737-747. ISSN 0098-7484. DOI 10.1001/jama.2022.1025.
2. ABRAMS, Darryl - MACLAREN, Graeme - LORUSSO, Roberto - PRICE, Susanna - YANNOPOULOS, Demetris - VERCAEMST, Leen - **BĚLOHLÁVEK, Jan** - TACCONE, Fabio S. - AISSAOUI, Nadia - SHEKAR, Kiran - GARAN, A. Reshad - URIEL, Nir - TONNA, Joseph E. - JUNG, Jae Seung - TAKEDA, Koji - CHEN, Yih-Sharng - SLUTSKY, Arthur S. - COMBES, Alain - BRODIE, Daniel. Extracorporeal cardiopulmonary resuscitation in adults: evidence and implications. *Intensive Care Medicine*. 2022, 48(1), 1-15. ISSN 0342-4642. DOI 10.1007/s00134-021-06514-y.
3. HAVRÁNEK, Štěpán - FINGROVÁ, Zdeňka - ROB, Daniel - ŠMALCOVÁ, Jana - KAVÁLKOVÁ, Petra - FRANEK, Ondřej - ŠMÍD, Ondřej - HUPTYCH, Michal - DUŠÍK, Milan - LINHART, Aleš - **BĚLOHLÁVEK, Jan**. Initial rhythm and survival in refractory out-of-hospital cardiac arrest. Post-hoc analysis of the Prague OHCA randomized trial. *Resuscitation*. 2022, 181(December), 289-296. ISSN 0300-9572. DOI 10.1016/j.resuscitation.2022.10.006.
4. NAKASHIMA, Takahiro - OGATA, Soshiro - NOGUCHI, Teruo - NISHIMURA, Kunihiro - HSU, Cindy H. - SEFA, Nana - HAAS, Nathan L. - **BĚLOHLÁVEK, Jan** - PELLEGRINO, Vincent - TONNA, Joseph E. - HAFT, Jonathan - NEUMAR, Robert W.. Association of intentional cooling, achieved temperature and hypothermia duration with in-hospital mortality in patients treated with extracorporeal cardiopulmonary resuscitation: An analysis of the ELSO registry. *Resuscitation*. 2022, 177(August), 43-51. ISSN 0300-9572. DOI 10.1016/j.resuscitation.2022.06.022.
5. ROB, Daniel - ŠMALCOVÁ, Jana - ŠMÍD, Ondřej - KRÁL, Aleš - KOVÁRNÍK, Tomáš - ZEMÁNEK, David - KAVÁLKOVÁ, Petra - HUPTYCH, Michal - KOMÁREK, Arnošt - FRANEK, Ondřej - HAVRÁNEK, Štěpán - LINHART, Aleš - **BĚLOHLÁVEK, Jan**. Extracorporeal versus conventional cardiopulmonary resuscitation for refractory out-of-hospital cardiac arrest: a secondary analysis of the Prague OHCA trial. *Critical Care*. 2022, 26(1), 330. ISSN 1364-8535. DOI 10.1186/s13054-022-04199-3.
6. ROB, Daniel - KAVÁLKOVÁ, Petra - ŠMALCOVÁ, Jana - FRANEK, Ondřej - ŠMÍD, Ondřej - KOMÁREK, Arnošt - PISINGER, Michael - **BĚLOHLÁVEK, Jan**. Gender differences and survival after out of hospital cardiac arrest. *The American Journal of Emergency Medicine*. 2022, 55(May), 27-31. ISSN 0735-6757. DOI 10.1016/j.ajem.2022.02.032.
7. ROB, Daniel - KAVÁLKOVÁ, Petra - ŠMALCOVÁ, Jana - KRÁL, Aleš - KOVÁRNÍK, Tomáš - ZEMÁNEK, David - FRANEK, Ondřej - ŠMÍD, Ondřej - HAVRÁNEK, Štěpán - LINHART, Aleš - **BĚLOHLÁVEK, Jan**. Coronary angiography and percutaneous coronary intervention in cardiac arrest patients without return of spontaneous circulation. *Resuscitation*. 2022, 175(June), 133-141. ISSN 0300-9572. DOI 10.1016/j.resuscitation.2022.03.027.
8. BRESTOVANSKÝ, Peter - VOLNÝ, Lukáš - BROŽEK, Tomáš - BARTOŠOVÁ, Tereza - JURÍŠINOVÁ, Ivana - MEVALDOVÁ, Zuzana - MIŠOVIČ, Ondřej - NOVOTNÝ, Adam - HOREJSEK, Jan - OTÁHAL, Michal - FLAKSA, Marek - STACH, Zdeněk - RULÍŠEK, Jan - TRACHTA, Pavel - KOLMAN, Josef - ŠACHL, Robert - KUNSTÝŘ, Jan - KOPECKÝ, Petr - ROMANIV, Severyn - HUPTYCH, M. - ŠVARC, Michal - HODKOVÁ, Gabriela - FICHTL, Jaromír - MLEJNSKÝ, František - GRUS, Tomáš - **BĚLOHLÁVEK, Jan** - LIPŠ, Michal - BLÁHA, Jan. The impact of obesity on the outcome of severe SARS-CoV-2 ARDS in a high volume ECMO centre: ECMO and corticosteroids support the obesity paradox. *Journal of Critical Care*. 2022, 72(December), 154162. ISSN 0883-9441. DOI 10.1016/j.jcrrc.2022.154162.
9. Rob D, Komárek A, Šmalcová J, **Bělohlávek J**. Effect of Intraarrest Transport, Extracorporeal Cardiopulmonary Resuscitation, and Invasive Treatment: A Post Hoc Bayesian Reanalysis of a Randomized Clinical Trial. *Chest*. 2023 Aug 2:S0012-3692(23)01068-1. doi: 10.1016/j.chest.2023.07.030. Epub ahead of print. PMID: 37536393.
10. Dusik M, Rob D, Smalcova J, Havranek S, Karasek J, Smid O, Brodska HL, Kavalkova P, Huptych M, Bakker J, **Belohlavek J**. Serum lactate in refractory out-of-hospital cardiac arrest: Post-hoc analysis of the Prague OHCA study. *Resuscitation*. 2023 Aug 11:109935. doi: 10.1016/j.resuscitation.2023.109935. Epub ahead of print. PMID: 37574002.
11. Pudil J, Rob D, Smalcova J, Smid O, Huptych M, Vesela M, Kovarnik T, **Belohlavek J**. Pulmonary embolism-related refractory out-of-hospital cardiac arrest and extracorporeal cardiopulmonary resuscitation: Prague OHCA study post hoc analysis. *Eur Heart J Acute Cardiovasc Care*. 2023 Aug 24;12(8):507-512. doi: 10.1093/ehjacc/zuad052. PMID: 37172033; PMCID: PMC10449371.
12. Grunau, Brian, Gurmeet Singh, **Jan Belohlavek**, Demetris Yannopoulos, Joseph E. Tonna, Alice Hutin, Dave Nagpal, Alexis Cournoyer, MD, and Sean van Diepen. "A Second Chance for Survival: Clinical Trial Evidence, Eligibility, and Barriers to Implementation of ECPR for Out-of-Hospital Cardiac Arrest." *The Canadian journal of cardiology* vol. 39,4 (2023): 381-384. doi:10.1016/j.cjca.2022.12.006
13. **Belohlavek, Jan**, Demetris Yannopoulos, Jana Smalcova, Daniel Rob, Jason Bartos, Michal Huptych, Petra Kavalkova, Rajat Kalra, Brian Grunau, Fabio Silvio Taccone, and Tom P. Aufderheide. "Intraarrest transport, extracorporeal

cardiopulmonary resuscitation, and early invasive management in refractory out-of-hospital cardiac arrest: an individual patient data pooled analysis of two randomised trials.” *Lancet EClinicalMedicine* vol. 59 101988. 5 May. 2023, doi:10.1016/j.eclim.2023.101988

14. Hrdlicka, Jan, Jana Smalcova, Biana Bircakova, Lukas Lambert, **Jan Belohlavek**, Andrea Burgetova. “Both decreased and increased grey-to-white matter attenuation ratio in the putamen and caudate on early head computed tomography differentiate patients with favorable and unfavorable outcomes after prolonged cardiac arrest-secondary analysis of the Prague OHCA study.” *Quantitative imaging in medicine and surgery* vol. 13,9 (2023): 6205-6214. doi:10.21037/qims-23-430
15. Ubben, Johannes F H, Samuel Heuts, Thijs S. R. Delnoij, Martje M. Suverein, Anina F. van de Koolwijk, Iwan C. C. van der Horst, Jos G. Maessen, Jason Bartos, Petra Kavalkova, Daniel Rob, Demetris Yannopoulos, **Jan Bělohávek**, Roberto Lorusso, and Marcel C. G. van de Poll. “Extracorporeal cardiopulmonary resuscitation for refractory OHCA: lessons from three randomized controlled trials-the trialists' view.” *European heart journal. Acute cardiovascular care* vol. 12,8 (2023): 540-547. doi:10.1093/ehjacc/zuad071
16. Ostadal, Petr, Richard Rokyta, Jiri Karasek, Andreas Kruger, Dagmar Vondrakova, Marek Janotka, Jan Naar, Jana Smalcova, Marketa Hubatova, Milan Hromadka, Stefan Volovar, Miroslava Seyfrydova, Jiri Jarkovsky, Michal Svoboda, Ales Linhart, **Jan Belohlavek**, for the ECMO-CS Investigators et al. “Extracorporeal Membrane Oxygenation in the Therapy of Cardiogenic Shock: Results of the ECMO-CS Randomized Clinical Trial.” *Circulation* vol. 147,6 (2023): 454-464. doi:10.1161/CIRCULATIONAHA.122.062949
17. Gisela Lilja, Susann Ullén, Josef Dankiewicz, Hans Friberg, Helena Levin, Erik Blennow Nordström, Katarina Heimborg, Janus Christian Jakobsen, Marita Ahlqvist, Frances Bass, **Jan Belohlavek**, Roy Bjørkholte Olsen, Alain Cariou, Glenn Eastwood, Hans Rune Fanebust, Anders M. Grejs, Lisa Grimmer, Naomi E. Hammond, Jan Hovdenes, Juraj Hrecko, Manuela Iten, Henriette Johansen, Thomas R. Keeble, Hans Kirkegaard, Jean-Baptiste Lascarrou, Christoph Leithner, Mildred Eden Lesona, Anja Levis, Marco Mion, Marion Moseby-Knappe, Leanlove Navarra, Per Nordberg, Paolo Pelosi, Rachael Quayle, Christian Rylander, Helena Sandberg, Manoj Saxena, Claudia Schrag, Michal Siranec, Cassina Tiziano, Philippe Vignon, Pedro David Wendel-Garcia, Matt P. Wise, Kim Wright, Niklas Nielsen, Tobias Cronberg. Effects of Hypothermia vs Normothermia on Societal Participation and Cognitive Function at 6 Months in Survivors After Out-of-Hospital Cardiac Arrest: A Predefined Analysis of the TTM2 Randomized Clinical Trial. *JAMA Neurol.* 2023 Aug 7 : e232536. doi: 10.1001/jamaneurol.2023.2536
18. Roberto Lorusso, Maria Elena De Piero, Silvia Mariani, Michele Di Mauro, Thierry Folliguet, Fabio Silvio Taccone, Luigi Camporota, Justyna Swol, Dominik Wiedemann, Mirko Belliato, Lars Mikael Broman, Alain Vuylsteke, Yigal Kassif, Anna Mara Scandroglio, Vito Fanelli, Philippe Gaudard, Stephane Ledot, Julian Barker, Udo Boeken, Sven Maier, Alexander Kersten, Bart Meyns, Matteo Pozzi, Finn M Pedersen, Peter Schellongowski, Kaan Kirali, Nicholas Barrett, Jordi Riera, Thomas Mueller, **Jan Belohlavek**, EuroECMO-COVID Study Group In-hospital and 6-month outcomes in patients with COVID-19 supported with extracorporeal membrane oxygenation (EuroECMO-COVID): a multicentre, prospective observational study. *Lancet Respir Med.* 2023 Feb; 11(2): 151–162. Published online 2022 Nov 16. doi: 10.1016/S2213-2600(22)00403-9 PMID: PMC9671669
19. Gisela Lilja, Susann Ullén, Josef Dankiewicz, Hans Friberg, Helena Levin, Erik Blennow Nordström, Katarina Heimborg, Janus Christian Jakobsen, Marita Ahlqvist, Frances Bass, **Jan Belohlavek**, Roy Bjørkholte Olsen, Alain Cariou, Glenn Eastwood, Hans Rune Fanebust, Anders M. Grejs, Lisa Grimmer, Naomi E. Hammond, Jan Hovdenes, Juraj Hrecko, Manuela Iten, Henriette Johansen, Thomas R. Keeble, Hans Kirkegaard, Jean-Baptiste Lascarrou, Christoph Leithner, Mildred Eden Lesona, Anja Levis, Marco Mion, Marion Moseby-Knappe, Leanlove Navarra, Per Nordberg, Paolo Pelosi, Rachael Quayle, Christian Rylander, Helena Sandberg, Manoj Saxena, Claudia Schrag, Michal Siranec, Cassina Tiziano, Philippe Vignon, Pedro David Wendel-Garcia, Matt P. Wise, Kim Wright, Niklas Nielsen, Tobias Cronberg. Effects of Hypothermia vs Normothermia on Societal Participation and Cognitive Function at 6 Months in Survivors After Out-of-Hospital Cardiac Arrest: A Predefined Analysis of the TTM2 Randomized Clinical Trial. *JAMA Neurol.* 2023 Aug 7 : e232536. doi: 10.1001/jamaneurol.2023.2536 [Epub ahead of print]
20. Marion Moseby-Knappe, Helena Levin, Kaj Blennow, Susann Ullén, Henrik Zetterberg, Gisela Lilja, Josef Dankiewicz, Janus Christian Jakobsen, Alice Lagebrant, Hans Friberg, Alistair Nichol, Kate Ainschough, Glenn M. Eastwood, Matt P. Wise, Matthew Thomas, Thomas Keeble, Alain Cariou, Christoph Leithner, Christian Rylander, Joachim Düring, **Jan Bělohávek**, Anders Grejs, Ola Borgquist, Johan Undén, Maryline Simon, Vincent Rolny, Alex Piehler, Tobias Cronberg, Niklas Nielsen. Biomarkers of brain injury after cardiac arrest; a statistical analysis plan from the TTM2 trial biobank investigators. *Resusc Plus.* 2022 Jun; 10: 100258. Published online 2022 Jun 2. doi: 10.1016/j.resplu.2022.100258