

## CURRICULUM VITAE

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### PERSONAL INFORMATION

**Name:** Ivan Cundrle, M.D., Ph.D.  
**Place of birth:** Brno, Czech Republic  
**Date of birth:** September 19, 1981  
**Citizenship:** Czech Republic  
**Personal status:** Married

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### PRESENT ACADEMIC RANK AND POSITIONS

**2014-now** Consultant at the Department of Anaesthesiology and Intensive Care, St. Anne's University Hospital, Brno, Czech Republic.  
**2013-now** External Consultant, Masaryk University, Brno, Czech Republic  
**2014-now** Post-doctoral researcher, International Clinical Research Center in Brno, Czech Republic

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### EDUCATION AND TRAINING

#### Secondary (High School):

**2001** Matriculation Examination with Honor at the Grammar School, Krenova Str., Brno, Czech Republic

#### Tertiary (College and University):

**2007** M.D. Passed with honors, School of Medicine, Masaryk University, Brno, Czech Republic

#### Post-Graduate:

**2007-2014** Resident at the Department of Anaesthesiology and Intensive Care, St. Anne's University Hospital, Brno, Czech Republic.  
**2008-2013** Ph.D. Study at Masaryk University Brno, Czech Republic  
Title of PhD Thesis: New Molecules in the Pathophysiology of Ventilatory Control in Heart Failure Patients  
Mentor: Vaclav Zvonicek, M.D., Ph.D. and prof. Lyle Olson M.D.  
**2011-2013** Research Fellow, Division of Cardiovascular diseases, Mayo Clinic, Rochester, Minnesota, USA. Mentors: Virend Somers, M.D., Ph.D., Lyle Olson, M.D.  
**2013-2015** Research Collaborator at the Division of Cardiovascular diseases, Mayo Clinic, Rochester, Minnesota, USA

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### MEDICAL LICENSE

Anesthesiology and Resuscitation. Passed with Honor, 2014, Brno, Czech Republic

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### HONORS/AWARDS

**2011** "Počtová cena" best publication in Anesteziologie a Intenzivní medicína. Czech Society of Anesthesiology and Intensive Care Medicine  
**2013** Young Investigator Award: 2<sup>nd</sup> place in Young Investigator Award – American College of Cardiology 2013, category: Physiology, Pharmacology and Pathology  
**2013** "Keszlerova cena" best publication in journal with IF. Czech Society of Anesthesiology and Intensive Care Medicine  
**2016** Best publication (author less than 35 years of age). Czech Society of Sleep Medicine

- 2017** “Keszlerova cena“ best publication in journal with IF. Czech Society of Anesthesiology and Intensive Care Medicine
- 2017** Best publication (author less than 35 years of age). Czech Society of Sleep Medicine
- 2017** Best publication. Czech Society of Pneumology and Ftizeology

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**PROFESSIONAL MEMBERSHIPS AND SOCIETIES**

- The European Shock Society (Member)
- Czech Society of Anesthesiology and Intensive Care Medicine (Member)
- Czech Society of Intensive Care Medicine (Member)
- Czech Society of Sleep Medicine (Member)

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**RESEARCH GRANT**

- 2008-2010** Influence of Temperature Adjustment on Thromboelastography Results. Grant Project of Internal Grant Agency of Ministry of Health of the Czech Republic. Principal investigator.
- 2018-2022** Rest Ventilatory Parameters Predict Morbidity and Mortality in Patients Undergoing Thoracic Surgery. Grant Project of Czech Health Research Council. Principal investigator.

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**SPECIAL COURSES**

- 2009** Course of Regional Anaesthesia, Brno, Czech Republic
- 2009** Course of Laryngeal Mask, Brno, Czech Republic
- 2012** Advanced Trauma Life Support, Minneapolis, USA

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**STUDY STAYS**

- 2011-2013** Department of Cardiology, Mayo Clinic, Rochester, USA

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**PUBLICATIONS****Original articles in journals with IF – first/corresponding author**

1. Cundrle I, Sramek V, Pavlik M, Suk P, Radouskova I, Zvonicek V. Temperature corrected thromboelastography in hypothermia: is it necessary? *Eur J Anaesthesiol* 2013;30:85–89.
2. Cundrle I, Somers VK, Singh P, Johnson BD, Scott CG, Olson LJ. The relationship between leptin and ventilatory control in heart failure. *J Card Fail* 2013;19:756–761.
3. Cundrle I, Johnson BD, Somers VK, Scott CG, Rea RF, Olson LJ. Effect of cardiac resynchronization therapy on pulmonary function in patients with heart failure. *Am J Cardiol* 2013;112:838–842. WOS
4. Cundrle I, Somers VK, Singh P, Johnson BD, Scott CG, Walt C van der, Olson LJ. Leptin deficiency promotes central sleep apnea in patients with heart failure. *Chest* 2014;145:72–78.
5. Cundrle I, Johnson BD, Rea RF, Scott CG, Somers VK, Olson LJ. Modulation of ventilatory reflex control by cardiac resynchronization therapy. *J Card Fail* 2015;21:367–373.
6. Cundrle I, Somers VK, Johnson BD, Scott CG, Olson LJ. Exercise end-tidal CO<sub>2</sub> predicts central sleep apnea in patients with heart failure. *Chest* 2015;147:1566–1573.
7. Cundrle I, Belehrad M, Jelinek M, Olson LJ, Ludka O, Sramek V. The utility of perioperative polygraphy in the diagnosis of obstructive sleep apnea. *Sleep Medicine*. 2016 Sep 1;25:151–5.
8. Brat K, Tothova Z, Merta Z, Taskova A, Homolka P, Vasakova M, Skrickova J, Sramek V, Olson LJ, Cundrle I Jr. Resting End-Tidal Carbon Dioxide Predicts Respiratory Complications in Patients Undergoing Thoracic Surgical Procedures. *The Annals of Thoracic Surgery*. 2016 Nov;102(5):1725–30.
9. Cundrle I, Somers VK, Singh P, Johnson BD, Scott CG, Olson LJ. Sex differences in leptin modulate ventilation in heart failure. *Heart Lung*. 2017 Jun;46(3):187–91.

10. Cundrle I, Somers VK, Singh P, Johnson BD, Scott CG, Olson LJ. Low leptin concentration may identify heart failure patients with central sleep apnea. *J Sleep Res.* 2017 Jun 23 (in press).
11. Ruzek L, Svobodova K, Olson LJ, Ludka O, Cundrle I. Increased microcirculatory heterogeneity in patients with obstructive sleep apnea. *PLoS ONE.* 2017;12(9):e0184291.
12. Cundrle I, Suk P, Sramek V, Lacinova Z, Haluzik M. Circadian leptin concentration changes in critically ill heart failure patients - preliminary results. *Physiol Res.* 2018 Mar 12

#### **Original articles in journals with IF – coauthor**

1. Suk P, Cundrle I, Hruđa J, Vocilková L, Konecny Z, Vlasin M, Matejovic M, Pavlik M, Zvoníček V, Sramek V. Porcine model of ruptured abdominal aortic aneurysm repair. *Eur J Vasc Endovasc Surg Off J Eur Soc Vasc Surg* 2012;43:698–704.
2. Součková L, Opatřilová R, Suk P, Čundrle I, Pavlík M, Zvoníček V, Hlinomaz O, Šrámek V. Impaired bioavailability and antiplatelet effect of high-dose clopidogrel in patients after cardiopulmonary resuscitation (CPR). *Eur J Clin Pharmacol* 2013;69:309–317.
3. Zvonicek V, Jurak P, Halamek J, Kruzliak P, Vondra V, Leinveber P, Cundrle I, Pavlík M, Suk P, Sramek V. The impact of sedation on pulse pressure variation. *Aust Crit Care Off J Confed Aust Crit Care Nurses* 2015;28:203–207.
4. Jurak P, Halamek J, Vondra V, Kruzliak P, Sramek V, Cundrle I, Leinveber P, Adamek M, Zvonicek V. Respiratory induced heart rate variability during slow mechanical ventilation. *Wien Klin Wochenschr.* 2017 Feb 24;1–8.

#### **Original articles in journals without IF - first/corresponding author**

1. Čundrle I, Šrámek V, Pavlík M, Suk P, Radoušková I, Zvoníček V. The influence of temperature adjustment on thromboelastography results: Prospective cohort study. *Anest. intenziv. Med* 2011;22:253–259.
2. Krbůšek J, Suk P, Hruđa J, Zvoníček V, Pavlík M, Šrámek V, Čundrle I. Variabilita ve vyšetření normální a patologické mikrocirkulace pomocí SDF. *Anest. intenziv. Med* 2012; 23;197-202.

#### **Original articles in journals without IF – coauthor**

1. Brat K, Čundrle I. Why won't this pneumothorax disappear? (a case report) | [Proč ten pneumotorax nemizí? (Kazuistika)]. *Studia pneumologica et phthiseologica.* 2016; 76 (6): 203-207.
2. Brat K, Merta Z, Čundrle I. Is it intestinal tuberculosis again? Case report. *Vnitr Lek.* 2017;63(5):354–60.

#### **Book Chapters**

1. Cundrle Jr I, Calvin AD, Somers VK. Sleep deprivation and the cardiovascular system. In: *Sleep deprivation and disease.* Springer New York; 2014:131–147.

#### **Review articles – corresponding author**

1. Růžek L., Čundrle I. Obstrukční spánková apnoe v perioperační medicíně. *Anest. intenziv. Med.,* 26, 2015, č. 2, s. 79-86.
2. Růžek L., Čundrle I. Poruchy spánku u pacientů v perioperačním období a intenzivní péči. *Anest. intenziv. Med.,* 27, 2016, č. 2, s. 87 - 97.

#### **Review articles - coauthor**

1. Brat K, Čundrle I. Diagnostika a léčba septovaných pleurálních výpotků. *Studia pneumologica et phthiseologica.* 2017;77(4):160-168.

#### **Letter to editor/correspondence**

1. Cundrle I, Singh P, Johnson BD, Scott CG, Olson LJ. Leptin and ventilation in heart failure - response. *Chest* 2015;147:e198.

#### **Invited lectures**

1. Microcirkulace: „on top“of macrohemodinamics? In V. kongres ČSIM Praha, 11.-13.5.2011.
2. Ischemie a Reperfuze: Hot news. In IV kongres ČSIM 2010, Brno, 12.-14.5.2010.

3. Vztah Leptinu a Centrální Spánkové Apnoe. In XVI. Český a XI. Česko-Slovenský kongres spánkové medicíny 6. - 8. listopadu 2014 Praha, Hotel Pyramida.
4. Poruchy spánku u pacientů v pooperačním období a intenzivní péči. XVII. Český a XII. česko-slovenský kongres spánkové medicíny 19. – 21. listopadu 2015, Clarion Grandhotel Zlatý Lev, Liberec.
5. Pacient se spánkovou apnoí – má mít vždy speciální „clinical pathway? XXIV. kongresu ČSARIM v Brně, 7-9.9. 2017.
6. Vztah leptinu a centrální spánkové apnoe u pacientů s chronickým srdečním selháním. XIX. Český a XIV. česko-slovenský kongres spánkové medicíny. 7. října 2017, Kongresové centrum, Praha
7. Jak spí nemocní na ICU (a spí vůbec?). Colours of Sepsis, 2018, Ostrava.