

Publication List

Prof. Dr. Wilhelm Behringer

Peer reviewed articles:

1. Testori C, Holzer M, Sterz F, Stratil P, Hartner Z, Moscato F, Schima H, **Behringer W.** Rapid induction of mild therapeutic hypothermia by extracorporeal veno-venous blood cooling in humans. *Resuscitation* 2013; 84(8):1051-5
2. Krizanac D, Stratil P, Hoerburger D, Testori C, Wallmueller C, Schober A, Haugk M, Haller M, **Behringer W**, Herkner H, Sterz F, Holzer M. Femoro-iliac artery versus pulmonary artery core temperature measurement during therapeutic hypothermia: An observational study. *Resuscitation* 2013 ;84(6):805-9.
3. Arrich J, Sterz F, Herkner H, Testori C, **Behringer W.** Total epinephrine dose during asystole and pulseless electrical activity cardiac arrests is associated with unfavourable functional outcome and increased in-hospital mortality. *Resuscitation* 2012, 83(3):333-7.
4. Weihs W, Krizanac D, Sterz F, Hlavin G, Janata A, Sipos W, Holzer M, Losert UM, **Behringer W.** Rapid induction of hypothermia with a small volume aortic flush during cardiac arrest in pigs. *Am J Emerg Med* 2012 Jun;30(5):643-50.
5. Testori C, Sterz F, **Behringer W**, Spiel A, Firbas C, Jilma B. Surface cooling for induction of mild hypothermia in conscious healthy volunteers - a feasibility trial. *Crit Care* 2011; 15(5):R248.
6. Testori C, Sterz F, **Behringer W**, Haugk M, Uray T, Zeiner A, Janata A, Arrich J, Holzer M, Losert H. Mild therapeutic hypothermia is associated with favourable outcome in patients after cardiac arrest with non-shockable rhythms. *Resuscitation* 2011; 82(9):1162-7.
7. Haugk M, Testori C, Sterz F, Uranitsch M, Holzer M, **Behringer W**, Herkner H; the Time to Target Temperature Study Group. Relationship between time to target temperature and outcome in patients treated with therapeutic hypothermia after cardiac arrest. *Crit Care* 2011;15(2):R101.
8. Weihs W, Schratter A, Sterz F, Janata A, Höglar S, Holzer M, Losert UM, Herkner H, **Behringer W.** The importance of surface area for the cooling efficacy of mild therapeutic hypothermia. *Resuscitation* 2011;82(1):74-8.
9. Schratter A, Holzer M, Sterz F, Janata A, Sipos W, Uray T, Losert U, **Behringer W.** New conventional long-term survival normovolemic cardiac arrest pig model. *Resuscitation* 2011;82(1):90-6.
10. Advanced Life Support Chapter Collaborators. Part 8: Advanced life support: 2010 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations. *Circulation* 2010;122(16 Suppl 2):S345-421.
11. Höglar S, Sterz F, Sipos W, Schratter A, Weihs W, Holzer M, Janata A, Losert U, **Behringer W**, Tichy A, Schmidt P. Distribution of neuropathological lesions in pig brains after different durations of cardiac arrest. *Resuscitation* 2010;81(11):1577-83.

12. Janata A, Weihs W, Schratter A, Bayegan K, Holzer M, Frossard M, Sipos W, Springler G, Schmidt P, Sterz F, Losert UM, Laggner AN, Kochanek PM, **Behringer W**. Cold aortic flush and chest compressions enable good neurologic outcome after 15 mins of ventricular fibrillation in cardiac arrest in pigs. *Crit Care Med* 2010;38(8):1637-43.
13. Haugk M, Stratil P, Sterz F, Krizanac D, Testori C, Uray T, Koller J, **Behringer W**, Holzer M, Herkner H. Temperature monitored on the cuff surface of an endotracheal tube reflects body temperature. *Crit Care Med* 2010;38(7):1569-73.
14. Uray T, Haugk M, Sterz F, Arrich J, Richling N, Janata A, Holzer M, **Behringer W**. Surface cooling for rapid induction of mild hypothermia after cardiac arrest: design determines efficacy. *Acad Emerg Med* 2010;17(4):360-7.
15. Sipos W, Duvigneau C, Sterz F, Weihs W, Krizanac D, Bayegan K, Graf A, Hartl R, Janata A, Holzer M, **Behringer W**. Changes in interleukin-10 mRNA expression are predictive for 9-day survival of pigs in an emergency preservation and resuscitation model. *Resuscitation* 2010;81(5):603-8.
16. Weihs W, Krizanac D, Sterz F, Sipos W, Höglar S, Janata A, Holzer M, Losert UM, **Behringer W**. Outcome after resuscitation using controlled rapid extracorporeal cooling to a brain temperature of 30 degrees C, 24 degrees C and 18 degrees C during cardiac arrest in pigs. *Resuscitation* 2010;81(2):242-7.
17. Krizanac D, Haugk M, Sterz F, Weihs W, Holzer M, Bayegan K, Janata A, Losert UM, Herkner H, **Behringer W**. Tracheal temperature for monitoring body temperature during mild hypothermia in pigs. *Resuscitation* 2010;81(1):87-92.
18. Schratter A, Weihs W, Janata A, Bayegan K, Holzer M, Sterz F, **Behringer W**. Surface vs. aortic flush cooling during cardiac arrest in pigs. *Acta Anaesthesiol Scand* 2010;54(2):206-11.
19. Arrich J, Zeiner A, Sterz F, Janata A, Uray T, Richling N, **Behringer W**, Herkner H. Factors associated with a change in functional outcome between one month and six months after cardiac arrest A retrospective cohort study. *Resuscitation* 2009;80(8):876-80.
20. Uray T, Malzer R; Vienna Hypothermia After Cardiac Arrest (HACA) Study Group Out-of-hospital surface cooling to induce mild hypothermia in human cardiac arrest: a feasibility trial. *Resuscitation* 2008 Jun;77(3):331-8.
21. Janata A, Bayegan K, Sterz F, Weihs W, Holzer M, Sipos W, Springler G, **Behringer W**. Limits of conventional therapies after prolonged normovolemic cardiac arrest in swine. *Resuscitation* 2008;79(1):133-8.
22. Havel C, Berzlanovich A, Sterz F, Domanovits H, Herkner H, Zeiner A, **Behringer W**, Laggner AN. Safety, feasibility, and hemodynamic and blood flow effects of active compression-decompression of thorax and abdomen in patients with cardiac arrest. *Crit Care Med* 2008;36(6):1832-7.
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25. Janata A, Bayegan K, Weihs W, Schratter A, Holzer M, Frossard M, Sipos W, Springler G, Schmidt P, Sterz F, Losert U, Laggner AN, Kochanek PM, **Behringer W**. Emergency preservation and resuscitation improve survival after 15 minutes of normovolemic cardiac arrest in pigs. *Crit Care Med* 2007;35:2785-2791.
26. Schratter A, Weihs W, Holzer M, Janata A, **Behringer W**, Losert UM, Ohley WJ, Schock RB, Sterz F. External cardiac defibrillation during wet-surface cooling in pigs. *Am J Emerg Med* 2007;25:420-4.
27. Kentner R, Safar P, **Behringer W**, Wu X, Henchir J, Ma L, Hsia CJ, Tisherman SA. Small volume resuscitation with tempol is detrimental during uncontrolled hemorrhagic shock in rats. *Resuscitation* 2007;72:295-305.
28. Janata A, Holzer M, Bayegan K, Frossard M, Sterz F, Losert U, Laggner AN, **Behringer W**. Rapid induction of cerebral hypothermia by aortic flush during normovolemic cardiac arrest in swine. *Crit Care Med* 2006;34:1769-74.
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32. **Behringer W**, Safar P, Wu X, Kentner R, Radovsky A, Kochanek PM, Dixon EC, Tisherman SA. Survival without brain damage after clinical death of 60-120 mins in dogs using suspended animation by profound hypothermia. *Crit Care Med* 2003;31(5):1523-3.
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37. **Behringer W**, Safar P, Wu X, Nozari A, Abdullah A, Tisherman SA.. Veno-venous extra-corporeal blood cooling for rapid induction of systemic mild hypothermia in dogs with circulation. *Resuscitation* 2002;54:89-98.

38. The Hypothermia After Cardiac Arrest (HACA) Study Group. Mild therapeutic hypothermia to improve neurologic outcome after cardiac arrest. *N Engl J Med* 2002;346:549-56.
39. Kentner R, Rollwagen FM, Prueckner S, **Behringer W**, Wu X, Stezoski J, Safar P, Tisherman SA. Effects of mild hypothermia on serum cytokines and survival in uncontrolled hemorrhagic shock in rats. *Shock* 2002;17:521-6.
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41. Wu X, Kentner R, Stezoski J; Kochanek PM, Jackson EK, Carlos T, Carcillo J, **Behringer W**, Safar P, Tisherman SA. Intraperitoneal, but not enteric, adenosine administration improves survival after volume-controlled hemorrhagic shock in rats. *Crit Care Med* 2001;29:1767-1773.
42. **Behringer W**, Safar P, Kentner R, Wu X, Kagan VE, Radovsky A, Clark RS, Kochanek PM, Subramanian M, Tyurin VA, Tyurin YY, Tisherman SA. Antioxidant Tempol enhances hypothermic cerebral preservation during prolonged cardiac arrest in dogs. *J Cereb Blood Flow Metab* 2001;22:105-117.
43. **Behringer W**, Kentner R, Wu X, Tisherman SA, Radovsky, Stezoski WS, Henchir J Prueckner S, Jackson EK, Safar P. Fructose-1,6-Bisphosphate and MK-801 by aortic arch flush for cerebral preservation during exsanguination cardiac arrest of 20 minutes in dogs. An exploratory study. *Resuscitation* 2001;50:205-216.
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Reviews or invited articles:

1. **Behringer W**. Innerklinische Notfallmedizin. Doktor in Wien 2014; 4:28-29
2. **Behringer W**, Dott C, Laggner AN. Intensivtherapie in der Notaufnahme Überflüssiger Luxus oder sinnvolle Kompetenz? *Notfall Rettungsmed* 2012;15:392–397.
3. **Behringer W**, Arrich J. The Gretchen question: when to cool patients after cardiac arrest? *Crit Care Med* 2012 Mar;40(3):984-5.
4. **Behringer W**, Dott C, Födisch M, Laggner AN. Die ersten Stunden entscheiden. Wir fordern Intensivkompetenz für Notfallaufnahmen! *Intensivmed* 2009;46:235-238.
5. **Behringer W**, Arrich J, Holzer M, Sterz F. Out-of-hospital therapeutic hypothermia in cardiac arrest victims. *Scand J Trauma Resusc Emerg Med* 2009;17(1):52.
6. Arrich J, **Behringer W**, Holzer M, Schreiber W, Sterz F. Therapeutische Hypothermie. Notfall + Rettungsmedizin 2008;11(7):453-458.

7. Holzer M, **Behringer W**. Therapeutic hypothermia after cardiac arrest and myocardial infarction. *Best Pract Res Clin Anaesthesiol* 2008;22(4):711-28.
8. **Behringer W**. Prevention and therapy of postresuscitation neurologic dysfunction. *Curr Opin Crit Care* 2008;14(3):305-10.
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10. **Behringer W**. Prevention and therapy of postresuscitation neurologic dysfunction. *Curr Opin Crit Care* 2008;14(3):305-10.
11. **Behringer W**. Reanimation: ist die Mund-zu-Mund Beatmung obsolet? *Intensiv News* 2007;5:1-3.
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16. **Behringer W**, Holzer M, Sterz F. Was machen wir falsch bei der Wiederbelebung nach Herzstillstand. *Intensiv News* 2005; 1:18-19.
17. **Behringer W**. Peter Safar, Vater der Wiederbelebung, *Wien Klin Wochenschr* 2004;116:102–106.
18. **Behringer W**, Holzer M, Sterz F. Präklinische erweiterte Reanimationsmaßnahmen: Sinn oder Unsinn? *Intensiv News* 2004;8:8-11.
19. Sterz F, Holzer M, Roine R, Zeiner A, Losert H, Eisenburger PO, Uray T, **Behringer W**. Hypothermia after cardiac arrest: a treatment that works. *Curr Opin Crit Care* 2003;9:205-210.
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Bookchapters:

1. **Behringer W**, Holzer M, Bernard S, Polderman K, Roine R, Tiainen M. Prevention of post-resuscitation neurologic dysfunction and injury by the use of therapeutic mild hypothermia In: *CARDIAC ARREST, the science and practice of resuscitation medicine*. Paradis N, Halperin H, Kern K, Wenzel V, Chamberlain D (eds.). Springer 2007:pp 848-884.
2. **Behringer W**. Global brain ischemia: animal studies. In: *Therapeutic hypothermia*. Tisherman SA, Sterz F (eds.). Springer 2005:pp 1-9.
3. **Behringer W**, Holzer M, Sterz F. Mild therapeutical hypothermia for treatment of cardiac arrest: which current results and future perspectives? In: *Cardiac arrhythmias 2003*. Raviele A (editor). Italy, Springer 2003:pp 579-586
4. Safar P, **Behringer W**. Brain resuscitation after cardiac arrest. In: *Textbook of NeuroIntensive Care*. Layon AJ, Gabrielli A, Friedman WA (eds). WB Saunders Publ 2003;pp 457-498.



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