

## Publikationsverzeichnis

### Habilitation

„Untersuchungen zur Pathophysiologie der schweren intraventrikulären Hämorrhagie bei extremer Frühgeburtlichkeit“ Medizinische Fakultät der Universität zu Bonn, 2004

### Dissertation

„Vergleichende Darstellung transitorischer Myokardischämie bei Patienten mit stabiler Angina Pectoris“ Medizinische Fakultät der Universität zu Köln, 1993

### Originalarbeiten

1. Odd D, **Heep A**, Luyt K, Draycott T. Hypoxic-Ischaemic Brain Injury: Planned Delivery before intrapartum events. *Journal of Neonatal-Perinatal Medicine* (accepted for publication, April 2017) [*Discussion of data*]
2. Jones R, **Heep A**, Odd D. Biochemical and clinical predictors of hypoxic-ischemic encephalopathy after perinatal asphyxia. *J Matern Fetal Neonatal Med.* 2017 Mar 8:1-6. doi: 10.1080/14767058.2017.1297790. [*Discussion of data, writing of paper*]
3. Scheef L, Nordmeyer-Massner JA, Smith-Collins APR, Müller N, Stegmann-Woessner G, Jankowski J, Gieseke J, Born M, Seitz H, Bartmann P, Schild HH, Pruessmann KP, **Heep A\***, Boecker H\*. Functional Laterality of Task-evoked Activation in Sensorimotor Cortex of Preterm Infants: An optimized 3 T fMRI Study Employing a Customized Neonatal Head Coil. *PLoS One.* 2017 Jan 11;12(1):e0169392. doi: 10.1371/journal.pone.0169392. eCollection 2017. [*\*Shared senior authorship, Development of hypothesis, study design, investigations, discussion of data, shared final responsibility for paper*]
4. Schreiner C, Schreiner F, Härtel C, Heckmann M, **Heep A**, Bartmann P, Woelfle J, Müller A, Herting E, Göpel W; German Neonatal Network, GNN. Glucocorticoid Receptor Gene Variants and Neonatal Outcome in Very-Low-Birth-Weight Preterm Infants. *Neonatology* 2016 Aug 11;111(1):22-29. [*Study data collection, discussion of data*]
5. Smith-Collins APR, Luyt K\*, **Heep A\***, Kauppinen RA\*. High Frequency Functional Brain Networks in Neonates Revealed by Rapid Acquisition Resting State fMRI. *Hum Brain Mapp* 2015 Jul;36(7):2483-94. doi: 10.1002/hbm.22786. [*\*Shared senior authorship, Development of hypothesis, study design, discussion of data, shared final responsibility for paper*]
6. Bates S, Odd D, Luyt K, Mannix P, Wach R, Evans D, **Heep A**. Superior vena cava flow and intraventricular haemorrhage in extremely preterm infants. *J Matern Fetal Neonatal Med* 2015 Jun 30:1-7. [*Development of hypothesis, study design, senior author, final responsibility for paper*]
7. Schreiner C, Suter C, Watzka M, Hertfelder HJ, Schreiner F, Oldenburg J, Bartmann P, **Heep A**. Genetic variants of the vitamin K dependent coagulation system and intraventricular hemorrhage in preterm infants. *BMC Pediatrics* 2014, 14:219 [*Development of hypothesis, study design, statistical analysis, discussion of data, writing of paper, grant holder, senior author, final responsibility for paper*]
8. Siebert S, Jakob M, Bartmann P, **Heep A**. Neonatal morbidity in preterm infants after premature rupture of membranes. *J Neonatal Perinatal Medicine* 2012, 4: 49-56. [*Development of*

*hypothesis, study design, statistical analysis, discussion of data, senior author, final responsibility for paper]*

9. Lato K, Geipel A, Berg C, Urbach H, Gembruch U, **Heep A**. Prenatal diagnosis of an isolated dural sinus malformation with thrombosis. *J Ultrasound Med*. 2012(12):2039-41. *[Study design, discussion of data, writing of paper, final responsibility for paper]*
10. Poralla C, Hertfelder HJ, Oldenburg J, Müller A, Bartmann P, **Heep A**. Elevated interleukin-6 concentration and alterations of the coagulation system are associated with the development of intraventricular haemorrhage in extremely preterm infants. *Neonatology* 2012 102(4):270-275. *[Development of hypothesis, study design, statistical analysis, discussion of data, final responsibility for paper]*
11. Amann C, Geipel A, Müller A, **Heep A**, Ritgen J, Stressig R, Kozłowski P, Gembruch U, Berg C. Fetal anemia of unknown cause—a diagnostic challenge. *Ultraschall Med* 2011; 32 Suppl 2:E134-40. *[Development of hypothesis, discussion of data]*
12. Poralla C, Traut C, Hertfelder HJ, Oldenburg J, Bartmann P, **Heep A**. The coagulation system of extremely preterm infants: influence of perinatal risk factors on coagulation. *J Perinatol* 2011 Dec 8. Doi:10.1038/jp.2011.182. *[Development of hypothesis, study design, statistical analysis, discussion of data, final responsibility for paper]*
13. Verbeek R, **Heep A**, Maurits N, Cremer R, Hoving E, Brouwer O, van der Hoeven J, Sival, D. Fetal Endoscopic Myelomeningocele Closure Preserves Segmental Neurologic Function. *Dev Med Child Neurol* 2012;54:15-22. *[Development of hypothesis, study conception, discussion of data]*
14. Frühe B, Allgaier AK, Pietsch K, Baethmann M, Peters J, Kellnar S, **Heep A**, Burdach S, von Schweinitz D, Schulte-Körne G. Children's Depression Screener (ChID-S): development and validation of a depression screening instrument for children in pediatric care. *Child Psychiatry Hum Dev* 2012;43:137-51. *[Study design, data collection, discussion of data]*
15. **Heep A**, Cremer R, Sival D. Prenatal versus postnatal repair of myelomeningocele. *N Engl J Med*. 2011 Jun 30;364(26):2555 *[Development of hypothesis, writing of paper, final responsibility for paper]*
16. Schmitz T, Felderhoff-Mueser U, Sifringer M, Kampmann S, Groenendaal F, **Heep A**. Expression of soluble Fas (sFas) in the CSF of preterm infants with post-hemorrhagic hydrocephalus and cystic white matter damage. *J Perinat Med* 2011; 39(1):83-8. *[Development of hypothesis, study design, discussion of data, writing of paper, final responsibility for paper]*
17. Gundel F, Eber S, **Heep A**. A new ankyrin mutation (ANK1 EXON E9X) causing severe hereditary spherocytosis in the neonatal period. *Ann Hematol* 2011 Feb;90(2):231-2. *[Discussion of data, writing of paper, senior author]*
18. Born M, Scheef L, Boecker H, **Heep A**. Cerebral MRI of Preterm Neonates at Term Equivalent Age at 3 Tesla: Hints at White Matter Damage on T2- and Diffusion Weighted Images. *Klin Pediatr* 2010; 222(7):443-8. *[Discussion of data, senior author, final responsibility for paper]*
19. Bagci S, Mueller A, Reinsberg J, **Heep A**, Bartmann P, Franz AR. Utility of salivary melatonin measurements in the assessment of the pineal physiology in newborn infants. *Clin Biochem* 2010 Jul;43(10-11):868-72. *[Discussion of data, writing of paper]*

20. Verbeek R, **Heep A**, Maurits N, Cremer R, Brouwer O, Hoeven J, Sival D. Fetal operation followed by Caesarean section may have a beneficial effect upon neuromuscular function in spina bifida aperta. *Cerebrospinal Fluid Res.* 2009 Nov 27;6 Suppl 2:S38. 6. *[Discussion of data, writing of paper]*
21. Poralla C, Hertfelder HJ, Oldenburg J, Müller A, Bartmann P, **Heep A**. Treatment of acute pulmonary haemorrhage in extremely preterm infants with recombinant activated factor VII. *Acta Paediatr* 2010; 99 (2): 298-300. *[Development of hypothesis, study design, statistical analysis, discussion of data, senior author, final responsibility for paper]*
22. Bagci S, Mueller A, Reinsberg J, **Heep A**, Bartmann P, Franz AR. Utility of salivary melatonin measurements in the assessment of the pineal physiology in newborn infants. *Clin Biochem* 2010; 43 (10-11): 868-72. *[Discussion of data, writing of paper]*
23. Siebert SE, Müller A, Bartmann P, **Heep A**. Prenatal Parvo B19 virus infection and neonatal stroke. *J Neonat Perinat Med* 2010; 3(2). *[Development of hypothesis, discussion of data, writing of paper, final responsibility for paper]*
24. Siebert S, Helbling C, Wolff M, Franz A, Müller A, Kau N, Bartmann P, **Heep A**. Peritoneovenous shunting as palliative treatment in an infant with chylous ascites due to generalised congenital lymphangiectasia. *Klin Pediatr* 2010;222(5):317-8. *[Development of hypothesis, study design, discussion of data, writing of paper, senior author, final responsibility for paper]*
25. Mueller A, Franz AR, Bartmann P, **Heep A**. Unusual case of pericardial tamponade due to umbilical venous catheterization in a newborn with congenital chylothorax – Case report and review of the literature. *J Neonat Perinat Med* 2009; 2(4). *[Study protocol design, discussion of data]*
26. Bagci S, Müller A, Heydweiller A, Bachour H, Petersen C, **Heep A**, Bartmann P, Franz A. Temporary banding of a lower tracheoesophageal fistula in an infant with left congenital diaphragmatic hernia and esophageal atresia. *Eur J Pediatr Surg.* 2009 Aug;19(4):260-3. *[Discussion of data, writing of paper]*
27. Bagci S, Mueller A, Reinsberg J, **Heep A**, Bartmann P, Franz AR Saliva as a valid alternative in monitoring melatonin concentrations in newborn infants. *Early Hum Dev.* 2009 Sep;85(9):595-8. *[Discussion of data, writing of paper]*
28. Saleh N, Geipel A, Gembruch U, **Heep A**, Heydweiller A, Bartmann P, Franz AR, Müller A. Prenatal diagnosis and postnatal management of meconium peritonitis. *J Perinat Med.* 2009;37(5):535-8. *[Study design , discussion of data, writing of paper]*
29. Kohl T, Van de Vondel P, Stressig R, Wartenberg HC, **Heep A**, Keiner S, Müller A, Franz A, Fröhlich S, Willinek W, Gembruch U. Percutaneous fetoscopic laser decompression of congenital high airway obstruction syndrome (CHAOS) from laryngeal atresia via a single trocar--current technical constraints and potential solutions for future interventions. *Fetal Diagn Ther.* 2009; 25(1):67-71. *[Study protocol design, discussion of data]*
30. **Heep A**, Scheef L, Jankowski J, Born M, Zimmermann N, Sival D, Bos A, Gieseke J, Bartmann P, Schild H, Boecker H. Functional magnetic resonance imaging of the sensorimotor system in preterm infants. *Pediatrics.* 2009 Jan;123(1):294-300. *[Development of hypothesis, study design, writing of paper, grant holder, final responsibility for paper]*

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32. Kohl T, Tchatcheva K, Merz W, Wartenberg HC, **Heep A**, Müller A, Franz A, Stressig R, Willinek W, Gembruch U. Percutaneous fetoscopic closure of human spina bifida: advances in fetal surgical techniques may obviate the need for early postnatal neurosurgical intervention. *Surg Endosc* 2009; 23 (4): 890-5. [*Study protocol design, discussion of data*]
33. Bagci S, Eis-Hübinger AM, Franz AR, Bierbaum G, **Heep A**, Schildgen O, Bartmann P, Kupfer B, Mueller A. Detection of Astrovirus in Premature Infants With Necrotizing Enterocolitis. *Pediatr Infect Dis J.* 2008; 27:347-50. [*Study protocol design, discussion of data*]
34. Kamil D, Tepelmann J, Berg C, **Heep A**, Axt-Fliedner R, Gembruch U, Geipel A. Spectrum and outcome of prenatally diagnosed fetal tumors. *Ultrasound Obstet Gynecol.* 2008; 31: 296-302. [*Discussion of data*]
35. Bagci S, Zschocke J, Hoffmann GF, Bast T, Klepper J, Müller A, **Heep A**, Bartmann P, Franz AR. Pyridoxal phosphate-dependent neonatal epileptic encephalopathy. *Arch Dis Child Fetal Neonatal Ed.* 2008 Mar; 93: F151-2. [*Study design, discussion of data*]
36. Müller A, Eis-Hübinger AM, Brandhorst G, **Heep A**, Bartmann P, Franz AR. Oral valganciclovir for symptomatic congenital cytomegalovirus infection in an extremely low birth weight infant. *J Perinatol.* 2008; 28: 74-6. [*Discussion of data*]
37. Kohl T, Breuer J, **Heep A**, Wenningmann I, Weinbach J, Gembruch U. Fetal transesophageal echocardiography during balloon valvuloplasty for severe aortic valve stenosis at 28+6 weeks of gestation. *J Thorac Cardiovasc Surg.* 2007; 134: 256-7. [*Study design, discussion of data*]
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39. Schmitz T, **Heep A**, Groenendaal F, Hüseman D, Kie S, Bartmann P, Obladen M, Felderhoff-Mueser U. Interleukin-1 beta, interleukin-18 and interferon-gamma expression in the cerebrospinal fluid of premature infants with posthemorrhagic hydrocephalus – markers of white matter damage? *Ped Research* 2007; 61: 1-5. [*Development of hypothesis, study design, discussion of data*]
40. Stadie R, Geipel A, **Heep A**, Herberg U, Welker B, Gembruch U, Berg C. Prenatal diagnosis of Marfan syndrome. *Ultrasound Obstet Gynecol.* 2007; 30: 119-21. [*Discussion of data*]
41. Kohl T, Muller A, Franz A, **Heep A**, Willinek WA, Bartmann P, Gembruch U. Temporary Fetoscopic Tracheal Balloon Occlusion Enhanced by Hyperoncotic Lung Distension: Is There a Role in the Treatment of Fetal Pulmonary Hypoplasia from Early Preterm Premature Rupture of Membranes? *Fetal Diagn Ther.* 2007 Jul 24;22(6):462-465 [*Study protocol design, data acquisition, discussion of data*]
42. Kempe A, Rosing B, Berg C, Kamil D, **Heep A**, Gembruch U, Geipel A. First-trimester treatment of fetal anemia secondary to parvovirus B19 infection. *Ultrasound Obstet Gynecol.* 2007; 29: 226-8. [*Discussion of data, writing of paper*]

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45. Kohl T, Hering R, Van de Vondel P, Tchatcheva K, Berg C, Bartmann P, **Heep A**, Franz A, Muller A, Gembruch U. Analysis of the stepwise clinical introduction of experimental percutaneous fetoscopic surgical techniques for upcoming minimally invasive fetal cardiac interventions. *Surg Endosc* 2006 (Jun 8; Epub ahead of print) *[Study protocol design, data acquisition, discussion of data]*
46. Schueller AC, **Heep A**, Kattner E, Kroll M, Wisbauer M, Sander J, Bartmann P, Stueber F. Prevalence of two tumor necrosis factor gene-polymorphisms in premature infants with early onset sepsis. *Biol Neonate* 2006; 90: 229-232. *[Statistical analysis, discussion of data, writing of paper]*
47. Nitsch P, Breuer J, Geipel A, Bartmann P, Gembruch U, **Heep A**. Dilatation of the abdominal umbilical vein is associated with increased risk of thrombotic complications. *J Perinat Med* 2006; 34(3):217-9. *[Development of hypothesis, data collection, discussion of data, senior author, final responsibility for paper]*
48. Kohl T, Gembruch U, Filsinger B, Hering H, Bruhn J, Tchatcheva K, Aryee S, Franz A, **Heep A**, Müller A, Bartmann P, Löff S, Hosie S, Neff W, Schaible S. Encouraging early clinical experience with deliberately delayed temporary fetoscopic tracheal occlusion for the prenatal treatment of life-threatening right and left congenital diaphragmatic hernias. *Fetal Diagn Ther* 2006; 21(3):314-8. *[Study protocol design, discussion of data]*
49. Kohl T, Hering R, **Heep A**, Schaller C, Meyer B, Greive C, Bizjak G, Buller T, Van de Vondel P, Gogarten W, Bartmann P, Knöpfle G, Gembruch U. Percutaneous fetoscopic patch coverage of spina bifida aperta in the human - Early clinical experience and potential. *Fetal Diagn Ther* 2006; 21:185-93 *[Study protocol design, data acquisition, discussion of data]*
50. Kohl T, Hering R, Bauriedel G, Van de Vondel P, **Heep A**, Keiner S, Müller A, Franz A, Bartmann P, Gembruch U. Percutaneous fetoscopic and ultrasound-guided decompression of the fetal trachea permits normalization of fetal hemodynamics in a human fetus with Fraser syndrome and congenital high airway obstruction syndrome (CHAOS) from laryngeal atresia. *Ultrasound Obstet Gynecol* 2006;27: 84-8 *[Study design, data, discussion of data, writing of paper]*
51. Kamil D, Geipel A, **Heep A**, Breuer J, Gembruch U, Berg C. Prenatal diagnosis of upper extremity vascular malformations causing high output failure and Kasabach Meritt sequence-a report of two cases. *Ultrasound Obstet Gynecol* 2006; 27:217-9. *[Development of hypothesis, discussion of data]*
52. Hoppen TH, **Heep A**, Riester M. Herpes-simplex-Virusinfektion beim Feten und Neonaten. *Pädiat Prax* 2005, 66:295-301. *[Discussion of data]*

53. **Heep A**, Schueller AC, Kattner E, Kroll M, Sander J, Wisbauer M, Bartmann P, Stueber F. Association of two tumour necrosis factor gene polymorphisms with the incidence of severe intraventricular haemorrhage in preterm infants. *J Med Genet* 2005; 42:604-8. *[Statistical analysis, discussion of data, writing of paper]*
54. Behrendt D, Dembinski J, **Heep A**, Bartmann P. Lipopolysaccharide-Binding Protein in Preterm Infants. *Arch Dis Child* 2004; 89: F551-F554. *[Study design, discussion of data]*
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57. **Heep A**, Schaller C, Rittmann N, Himbert U, Marklein G, Bartmann P. Multiple brain abscesses in an extremely preterm infant: Treatment surveillance with interleukin-6 in the CSF. *Eur J Pediatr*. 2004; 163: 44-5. *[Study design, discussion of data, writing of paper, final responsibility for paper]*
58. Dembinski J, Behrendt D, Martini R, **Heep A**, Bartmann P. Modulation of pro- and anti-inflammatory cytokine production in very preterm infants. *Cytokine*. 2003; 21: 200-6. *[Discussion of data, writing of paper]*
59. **Heep A**, Behrendt D, Nitsch P, Fimmers R, Bartmann P, Dembinski J. Increased interleukin-6 serum levels are associated with severe intraventricular hemorrhage in extremely premature infants. *Arch Dis Child* 2003; 88: F501-4. *[Development of hypothesis, study design, statistical analysis, discussion of data, writing of paper, grant holder, final responsibility for paper]*
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61. Haverkamp F, **Heep A**, Woelfle J. Psychomotor development in children with early diagnosed giant interhemispheric cysts. *Dev Med Child Neurol*. 2002; 44:556-60. *[Study protocol design, discussion of data]*
62. **Heep A**, Stoffel-Wagner B, Soditt V, Aring C, Groneck P, Bartmann P. Procollagen I C-propeptide in the cerebrospinal fluid of neonates with posthaemorrhagic hydrocephalus. *Arch Dis Child Fetal Neonatal Ed*. 2002;87:F34-6. *[Development of hypothesis, study design, statistical analysis, discussion of data, writing of paper, grant holder, final responsibility for paper]*
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64. **Heep A**, Engelskirchen R, Holschneider A, Groneck P. Primary intervention for posthemorrhagic hydrocephalus in very low birthweight infants by ventriculostomy. *Child Nerv Syst*. 2001; 17: 47-

51. *[Development of hypothesis, study design, statistical analysis, discussion of data, writing of paper, final responsibility for paper]*

65. **Heep A**, Koch D, Cremer R, de Vivie ER, Bläker F, Gillor A. Schwere arterielle Hypertonie als Manifestation einer Nierenarterienstenose bei Williams-Beuren-Syndrom. *Monatsschr Kinderheilkd* 1998; 146: 862-864. *[Discussion of data, writing of paper]*

### **Review Articles**

1. Paul SD, Abdelrhim H, **Heep A**. Management of hypoxic ischemic encephalopathy. *Indian Journal of Pediatrics*, Epub 28/10/2014. *[Writing of paper, senior author, final responsibility for paper]*
2. Prusseit J, Simon M, von der Brelie C, **Heep A**, Molitor E, Volz S, Simon A. Epidemiology, prevention and management of ventriculoperitoneal shunt infections in children. *Pediatr Neurosurg* 2009; 45 (5): 325-36. *[Data collection, literature review]*
3. Boecker H, Scheef L, Jankowski J, Zimmermann N, Born M, **Heep A**. *[Current stage of fMRI applications in newborns and children during the first year of life]* *Rofo*. 2008 Aug; 180(8):707-14. *[Senior author, final responsibility for paper]*
4. Gillen J, **Heep A**, Simon M, Marklein G, Molitor E, Simon A. Epidemiologie, Prävention und Management von Infektionen ventrikulo-peritonealer Shunts im Kindesalter. *Hyg Med* 2007; 32:478-489. *[Data collection, literature review]*
5. Dembinski J, **Heep A**, Kau N, Knopfle G, Bartmann P. CT imaging of pulmonary lobar interstitial emphysema in a spontaneous breathing preterm infant. *Am J Perinatol*. 2002; 19:285-90. *[Data collection, literature review]*

### **Buchkapitel**

deVries LS, Heep A. Haemorrhagic lesions of the central nervous system. In: *Neonatology, A Practical Approach to Neonatal Diseases*. Buonocore G, Bracci R, Weindling M (Eds.). Springer, 2nd ed. Expected publication date Jan 2018