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### Publikationsliste

Schwerpunkte:

Klinische Chemie und Pathobiochemie

-des Zentralnervensystems (**ZNS**, n=34; Neuroinflammation, Demenzielle Erkrankungen, Zerebrovaskuläre Erkrankungen)

-des Kardiovaskulären Systems (**K**, n=41; Kardiale Markermoleküle, Troponine, Natriuretische Peptide, Kreatinkinase, Risikofaktoren)

-der Inflammationsreaktion (**I**, n=24, Zytokine und deren Induktionsprodukte)

-Varia (**V**, n=27, allgemeine Klinische Chemie, Immunoassay-Validation, Enzymologie, Hämostaseologie, Hämatologie, geriatrische Fragestellungen in der Labormedizin)

Original Paper, Letter (Let), Case Report (CaR) und Conference Report (CoR)

\* contributed equally

1. B. Jørgensen, T. Bertsch, H.J. Bröker, M. Schäfer, J.P. Chapelle, M.R. Cowie, B. Dikkeschei, E. Gurr, W. Hayen, G. Hafner, Y. Stiegler, H.R.Schönherr, R. H. Strasser, B. Weidtmann, H. Folkerts, C. Zugck, K. Hofmann, R. Zerback: Multicentre evaluation of a second generation point-of-care assay with an extended range for the determination of N-terminal-pro-brain natriuretic peptide. *Clin Lab* (accepted) **K**
2. P. Schwandt, T. Bertsch, G.M. Haas: Sustained lifestyle advice and cardiovascular risk factors in 687 biological child-parent pairs: The PEP Family Heart Study. *Atherosclerosis* (accepted) **K**
3. M. Drey, A. Zech, E. Freiberger, T. Bertsch, W. Uter, C.C. Sieber, K. Pfeifer, J.M. Bauer: Effects of strength training versus power training on physical performance in prefrail community-dwelling older adults. *Gerontology* (accepted) **V**
4. G.M. Oremek, A. Oertl, T. Bertsch, N. Bewarder, V. Bürger, R. Dannenberg, L. Dibbelt, A. Gerstmeyer, G. Grunow, A. Irmer-Vorpeil, R. Klapdor, M. Klemm, G. Kregel, A. Lerahn, St. Marivoet, J. Misianik, V. Ortin, V. Peeters, B. Röder, I. Schauer, A. Schneider, A.M. Schweiger, D. Seefried, D. Straetmans, A. Trommer, A. Weinhold: Alpha-1-Fetoprotein (AFP): International Proficiency Study With Different Test Systems *Clin. Lab.* (accepted) **V**
5. M. Christ, T. Bertsch: High-sensitive troponin assays and clinical decisions. *Ann Clin Biochem* (accepted) **K** (Let)

6. P. Bahrmann, H.J. Heppner, M. Christ, T. Bertsch, C. C. Sieber: Early detection of non-ST-elevation myocardial infarction in geriatric patients by a new high-sensitive cardiac Troponin T assay. *Aging Clinical and Experimental Research* 2011 Sept 26 (Epub ahead of print) **K**
7. T. Vanmierlo, J. Popp, H. Kölsch, S. Friedrichs, F. Jessen, B. Stoffel-Wagner, T. Bertsch, T. Hartmann, W. Maier, K.von Bergmann, H. Steinbusch, M. Mulder, D. Lütjohann: The plant sterol brassicasterol as an additional CSF biomarker in Alzheimer's disease. *Acta. Psych. Scand.* **124**: 184-192 (2011) **ZNS**
8. S. Walter, P. Kostopoulos, A. Haass, M. Lesemeister, M. Grasu, I. Grunwald, I. Keller, S. Helwig, C. Becker, J. Geisel, T. Bertsch, S. Kaffine, A. Leingärtner, Y. Liu, W. Reith, K. Fassbender: Point-of-care laboratory halves "door to therapy decision time" in acute stroke. *Ann. Neurol.* **69**: 581-586 (2011) **ZNS**
9. S. Walter, P. Kostopoulos, A. Haass, S. Helwig, S. Keller, I. Licina, T. Schlechtriemen, C. Roth, P. Papanagiotou, A. Zimmer, J. Vierra, H. Körner, K. Schmidt, M.S. Romann, M. Alexandrou, U. Yilmaz, I. Grunwald, D. Kubulus, M. Lesmeister, S. Ziegeler, A. Pattar, M. Golinski, Y. Liu, T. Volk, T. Bertsch, W. Reith, K. Fassbender: Bringing the hospital to the patient: first treatment of stroke patients at the emergency site. *PLoS one* Oct 29; **5** (10): e13758 (2010) **ZNS**
10. M. Christ, S. Popp, H. Pohlmann, M. Poravas, D. Umarov, R. Bach, T. Bertsch: Implementation of high sensitivity cardiac Troponin T measurement in the emergency department. *Am. J. Med.* **123**: 1134-1142 (2010) **K**
11. T. Bertsch, S.L. Braun, E. Giannitsis, F. Knebel, M. Weber, M. Christ: Clinical use of Troponin T high sensitive *Clin. Lab.* **56**: 355-358 (2010) **K (CoR)**
12. P. Schwandt, G.M. Haas, T. Bertsch: Nutrition and risk factors in female participants in the PEP Family Heart Study. *Int. J. Prev. Med.* **1**: 104-110 (2010) **K**
13. T. Walter, M. Brueckmann, S. Lang, T. Sauer, E. Fiedler, J. Papassotiriou, M. Behnes, E. Elmas, M. Borggreffe, T. Bertsch: Comparison of long-term prognostic value of N-terminal-proBNP and midregional-adrenomedullin in patients with acute myocardial infarction *Clin. Lab.* **56**: 303-309 (2010) **K**
14. P. Schwandt, T. Bertsch, GM Haas: Anthropometric screening for silent cardiovascular risk factors in adolescents: The PEP Family Heart Study. *Atherosclerosis* **211**: 667-671 (2010) **K**
15. P. Schwandt, E. Liepold, T. Bertsch, GM Haas: Lifestyle, cardiovascular drugs and risk factors in younger and elder adults: The PEP Family Heart Study. *Int. J. Prev. Med.* **1**; 56-61 (2010) **K**
16. T. Bertsch, J.P. Chapelle, C.E. Dempfle; E. Giannitsis, M. Schwab, R. Zerback: Multicentre analytical evaluation of a new point-of-care system für the determination of cardiac and thromboembolic markers *Clin. Lab.* **56**: 37-49 (2010) **K**

17. H.J. Heppner\*, T. Bertsch\*, B. Alber, A.S. Esslinger, C. Dragonas, J.M. Bauer, C.C. Sieber: Procalcitonin: Inflammatory biomarker for assessing the severity of community acquired pneumonia. A clinical observation in geriatric patients. *Gerontology* **56**: 385-389 (2010) **I**
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19. C. Dragonas, T. Bertsch, C.C. Sieber; T. Brosche: Plasmalogens as a marker of elevated systemic oxidative stress in Parkinson's disease. *Clin. Chem. Lab. Med.* **47**: 894-897 (2009) **ZNS (Let)**
20. A.S. Bargnoux, S. Badiou, T. Bertsch, C. Aschenneller, V. Herzog, A. Ebel, J.P. Cristol, A.M. Dupuy. Multicenter evaluation of workflow performances of the new Olympus AU 3000i. *Clin. Lab.* **55**: 459-464 (2009) **V**
21. J. Reinsberg, O. Bätz, T. Bertsch, N. Bewarder, W. Deschner, V. Drescher, M. Dronsek, M. Emami, R. Keller, M. Klemm, H.U. Koch, J. Meissner, T. Plecko, I. Schauer, A.M. Schweiger, A. Ullrich; H.M. van de Loo, M. Zwirner: Precision and long-term stability of different estradiol immunoassays assessed in a multi-center quality control study *Clin. Lab.* **55**: 201-206 (2009) **V**
22. E. Giannitsis, H. Baum, T. Bertsch, M. Juchum, M. Müller-Bardorff, B. Jorgensen, A. Böhmer, M. Rebmann, J. Schäffler, M. Schwab, R. Zerback: Multicentre evaluation of a new point-of-care test for the determination of CK-MB in whole blood. *Clin. Chem. Lab. Med.* **46**: 630-638 (2008) **K**
23. C. Dragonas, H.J. Heppner, J.T. Wagner, T. Bertsch, W. Muhlberg, S. Wicklein, A. Pahl, C. Diewald; I. Bachmakov, C.C. Sieber, M.F. Fromm: ABCB1 polymorphisms and elevated serum digitoxin concentrations in geriatric patients. *Eur. J. Clin. Pharmacol.* **64**: 367-372 (2008) **K**
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26. T. Bertsch, B. Dikkeschei, E. Gurr, W. Hayern, B. Jorgensen, J. Lotz, M. Müller-Bardorff, J. Ordonez-Lianos, I. Schulz, R. Zerback: Development of a new point-of-care test for the determination of NT-proBNP in whole blood *Clin. Lab.* **53**: 423-31 (2007) **K**

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32. U. Hoffmann\*, T. Bertsch\*, E. Dvortsak, C. Liebetau, S. Lang, V. Liebe, G. Huhle, M. Borggreffe, M. Brueckmann: Matrix-metalloproteinases and their inhibitors are elevated in severe sepsis – Prognostic value of TIMP-1 in severe sepsis- *Scan. J. Infect. Dis.* **38**: 867-872 (2006) **I**
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