

Publikationen:

1. Halbgebauer R, Kellermann S, Schäfer F, **Weckbach S**, Weiss M, Barth E, Bracht H, Kalbitz M, Gebhard F, Huber-Lang MS, Perl M. Functional immune monitoring in severely injured patients – a pilot study. Scand J Immunol 2019, Oct 17 Epub ahead of print
2. Kocak T, Ulmar B, Reichel H, **Weckbach S**. Eosinophilic granuloma of the spine involving C1 and pulmonary infiltration in young children – Presentation of two cases with a follow-up over 10 years including review of the literature. J Orthop. 2018. Aug 16. 808-811.
3. Lattig F, Stettin E, Weckbach S. Correction of kyphotic fixed lumbar segments and hypolordosis with the transforaminal lumbar interbody fusion technique. Per Orthop Traumatol. 2018 Jun.210-222.
4. Stahel PF, Smith WR, Moore EE, Mehler PS, **Weckbach S**, Kim FJ, Butler N, Pape HC, Clarke TJ, Makary MA, Clavien PA. The 10th anniversary of patient safety in surgery. Patient Saf Surg. 2017. Dec 14.
5. Braun CK, Kalbitz M, Halbgebauer R, Eisele P, Messerer DAC, **Weckbach S**, Schultze A, Braumüller S, Gebhard F, Huber-Lang MS. Early structural changes of the heart after experimental polytrauma and hemorrhagic shock. PLoS One. 2017. Oct 30.
6. Glass NE, Burlew CC, Hahnhaussen J, **Weckbach S**, Pieracci FM, Moore EE, Stahel PF. Early definitive fracture fixation is safely performed in the presence of an open abdomen in multiply injured patients. J Orthop Trauma. 2017 Dec. 624-630.
7. Weckbach S, Reichel H, Kraus M, Kocak T, Lattig F. Modified technique of transforaminal lumbar interbody fusion for segmental correction of lumbar kyphosis: a safe alternative to osteotomies? Patient Saf Surg. 2017 Jul.
8. Lattig F, **Weckbach S**. S2- Ala-iliac screws for extended pelvic fixation in longer lumbar instrumentations in freehand technique. Oper Orthop Traumatol. 2017. Jun 19.
9. Denk S, **Weckbach S**, Eisele P, Braun CK, Wiegner R, Ohmann JJ, Wrba L, Hoenes FM, Kellermann P, Radermacher P, Wachter U, Hafner S, McCook O, Schultze A, Palmer A, Braumüller S, Gebhard F, Huber-Lang M. Role of Hemorrhagic Shock in Experimental Polytrauma. Shock. 2018 Feb. 154-163.
10. Denk S, Neher MD, Messerer DAC, Wiegner R, Nilsson B, Rittirsch D, Nilsson-Ekdahl K, **Weckbach S**, Ignatius A, Kalbitz M, Gebhard F, Weiss ME, Vogt J, Radermacher P, Köhl J, Lambris JD, Huber-Lang MS. Complement C5a Functions as a Master Switch for the pH Balance in Neutrophils Exerting Fundamental Immunometabolic Effects. J Immunol. 2017 Jun 15; 198 (12).

11. Kocak T, Kraus M, Reichel H, Winckelmann J, **Weckbach S**. Therapeutic options for chronic pain syndromes of the spine. OUP. 2017. Mar 142-146.
12. Reinke A, Kraus M, Wild A, **Weckbach S**. Total disc replacement in lumbar and cervical spine. OUP. 2017. Mar 136-140.
13. Reinke A, Wild A, Kraus M, **Weckbach S**. Surgical strategies in degenerative cervical spine diseases. OUP. 2017. Mar 130-134.
14. **Weckbach S**, Reinke A, Reichel H, Kocak T. Surgical strategies in degenerative lumbar spine diseases. OUP. 2017. Mar 125-129.
15. Stahel PF, Douglas IS, VanderHeiden TF, **Weckbach S**. The history of risk: a review. *World J Emerg Surg*. 2017 Mar 14;12-15.
16. **Weckbach S**, Lutz B, Wölfle-Roos JV, Reichel H. Infections of the spine: Therapeutic strategies. *Chirurg*. 2016, 87(10):839-46.
17. **Weckbach S**, Kocak T, Reichel H, Lattig F. A survey on patients' knowledge and expectations during informed consent for spinal surgery: can we improve the shared decision-making process? *Patient Saf Surg*. 2016, 3:10:15.
18. Denk S, Wiegner R, Hönes FM, Messerer DA, Radermacher P, Weiss M, Kalbitz M, Ehrnthaller C, Braumüller S, McCook O, Gebhard F, **Weckbach S**, Huber-Lang M. Early Detection of Junctional Adhesion Molecule-1 (JAM-1) in the Circulation after Experimental and Clinical Polytrauma. *Mediators Inflamm*. 2015, 2015:463950.
19. **Weckbach S**, Hahnhaussen J, Losacco JT, Gebhard F, Stahel PF. Is the standard retention of syndesmotic positioning screws after ankle fracture fixation safe and feasible? A retrospective cohort study in 140 consecutive patients at a north american trauma centre. *Z Orthop Unfall*. 2014, 15:554-7.
20. Neher MD, Rich MC, Keene CN, **Weckbach S**, Bolden AL, Losacco JT, Patane J, Flierl MA, Kulik L, Holers VM, Stahel PF. Deficiency of complement receptors CR2/CR1 in Cr2^{-/-} mice reduces the extent of secondary brain damage after closed head injury. *J Neuroinflammation*. 2014, 24;11:95.
21. Kraus M, von dem Berge S, Perl M, Krischak G, **Weckbach S**. Accuracy of screw placement and radiation dose in navigated dorsal instrumentation of the cervical spine: a prospective cohort study. *Int J Med Robot*. 2014, 10(2):223-9.
22. Scola A, Gebhard F, **Weckbach S**, Dehner C, Schwyn R, Fliri L, Röderer G. Mechanical quantification of local bone quality in the humeral head: a feasibility study. *Open Orthop J*. 2013,7:172-6.
23. **Weckbach S**, Hohmann C, Denk S, Kellermann P, Huber-Lang MS, Baumann B, Wirth T, Gebhard F, Bachem M, Perl M. Apoptotic and inflammatory signaling via Fas and tumor necrosis factor receptor I contribute to the development of chest trauma-induced septic acute lung injury. *J Trauma Acute Care Surg*. 2013, 74(3):792-800.

24. **Weckbach S**, Hohmann C, Braumueller S, Denk S, Klohs B, Stahel PF, Gebhard F, Huber-Lang MS, Perl M. Inflammatory and apoptotic alterations in serum and injured tissue after experimental polytrauma in mice: distinct early response compared with single trauma or "double-hit" injury. *J Trauma Acute Care Surg.* 2013, 74(2):489-98.
25. Kraus M, **Weckbach S**, Jones A, Krischak G, Gebhard F, Schöll H. Image guidance shortens the learning curve for K-wire placement - an experimental study. *Int J Med Robot.* 2013, 9(1):52-7.
26. Hahnhaussen J, Hak DJ, **Weckbach S**, Heiney JP, Stahel PF. Percutaneous inflation osteoplasty for indirect reduction of depressed tibial plateau fractures. *Orthopedics.* 2012, 35:768-72.
27. Artner J, Cakir B, **Weckbach S**, Reichel H, Lattig F. Radiation dose reduction in CT-guided periradicular injections in lumbar spine: Feasibility of a new institutional protocol for improved patient safety. *Patient Saf Surg.* 2012 13;6(1):19.
28. Ehrnthaller C, Amara U, **Weckbach S**, Kalbitz M, Huber-Lang M, Bahrami S. Alteration of complement hemolytic activity in different trauma and sepsis models. *J Inflamm Res.* 2012, 5:59-66.
29. P.H. Richter, T. Rahmzadeh, F. Gebhard, G. Krischak, M. Arand, **S. Weckbach**, M. Kraus. Screw position of navigated percutaneous iliosacral screws. *OUP* 2012:7-8.
30. M. Kraus, F. Fliedner, P. Richter, G. Krischak, F. Gebhard, **S. Weckbach**, P. Keppler. Medium-term changes of the leg axis following high tibial and distal femur osteotomies. *OUP* 2012: 255-0260.
31. Prabhakar H, Cooper JB, Sabel A, **Weckbach S**, Mehler PS, Stahel PF. Introducing standardized "readbacks" to improve patient safety in surgery: a prospective survey in 92 providers at a public safety-net hospital. *BMC Surg.* 2012, 19:8.
32. Ramos TN, Darley MM, **Weckbach S**, Stahel PF, Tomlinson S, Barnum SR. The C5 convertase is not required for activation of the terminal complement pathway in murine experimental cerebral malaria. *J Biol Chem.* 2012, 287:24734-8.
33. Neher MD, **Weckbach S**, Huber-Lang MS, Stahel PF. New insights into the role of peroxisome proliferator-activated receptors in regulating the inflammatory response after tissue injury. *PPAR Res.* 2012;2012:728461.
34. Huber-Lang M, Denk S, Fulda S, Erler E, Kalbitz M, **Weckbach S**, Schneider EM, Weiss M, Kanse SM, Perl M. Cathepsin D is released after severe tissue trauma in vivo and is capable of generating C5a in vitro. *Mol Immunol.* 2012,50(1-2):60-5.
35. **Weckbach S**, Losacco JT, Hahnhaussen J, Gebhard F, Stahel PF. Challenging the dogma on inferiority of stainless steel implants for fracture fixation: An end of the controversy? *Unfallchirurg* 2012, 115:75–79.

36. Michael A Flierl, Daniel Rittirsch, **Sebastian Weckbach**, Markus Huber-Lang, Kyros Ipaktchi, Peter A Ward and Philip F Stahel. Disturbances of the hypothalamic-pituitary-adrenal axis and plasma electrolytes during experimental sepsis. *Annals of Intensive Care* 2011, 1:53.
37. Neher M, **Weckbach S**, Flierl MA, Huber-Lang MS Stahel PF. Molecular mechanisms of inflammation and tissue injury after major trauma - is complement the "bad guy"? *J. Biomed. Sci.* 2011, 18:90.
38. **Weckbach S**, Neher M, Losacco JT, Bolden AL, Kulik L, Flierl MA, Bell SE, Holers VM, Stahel PF. Challenging the role of adaptive immunity in neurotrauma: *Rag1*^{-/-} mice lacking mature B and T cells do not show neuroprotection after closed head injury. *J Neurotrauma.* 2012, 29:1233-42.
39. **Weckbach S**, Perl M, Heiland T, Braumüller S, Stahel PF, Flierl MA, Ignatius A, Gebhard F, Huber-Lang M. A new experimental polytrauma model in rats: molecular characterization of the early inflammatory response. *Mediators Inflamm.* 2012:890816.
40. **Weckbach S**, Perl M, Heiland T, Braumüller S, Stahel PF, Flierl MA, Ignatius A, Gebhard F, Huber-Lang M. Survival following a vertical free fall from 300 feet: The crucial role of body position to impact surface. *Scand J of Trauma Resusc Emerg Med.* 2011, 19:63.
41. Hahnhaussen J, Hak DJ, **Weckbach S**, Ertel W, Stahel PF.. High energy proximal femur fractures in geriatric patients: A retrospective analysis of complications and short-term mortality. *Geriatr Orthop Surg Rehabil* 2011, 2: 195-202.
42. **Weckbach S**, Möricke A, Braunwarth H, Goroncy-Bermes P, Bischoff M, Gebhard F. Octenidin in combination with polymethylmethacrylate: a new option for preventing infection? *Arch Orthop Trauma Surg* 2012, 32, 15-20.
43. **Weckbach S**, Flierl MA, Huber-Lang M, Gebhard F, Stahel PF. Surgical treatment of ankle fractures as an outpatient procedure. A safe and resource-efficient concept? *Unfallchirurg.*2011, 114:938-42.

Buchbeiträge:

1. P.F. Stahel, **S. Weckbach**.

Schädel-Hirntrauma: Einfluss auf die unfallchirurgische Akutversorgung.

In: Management des Schwerverletzten, Hrsg.: Hans-Christoph Pape, Frank Hildebrand, Steffen Ruchholtz. 1. Auflage. Springer Verlag 2018, S. 117-121.

2. Vertebral burst fractures

H. Yoshihara, T. VanderHeiden, **S. Weckbach**, P. Stahel

In: Orthopedic Trauma Call for the Attending surgeon (313-322), SLACK 2013

3. Komplikationen bei der Verbandstechnik

S. Weckbach, M. Bischoff

In: Komplikationen in Orthopädie und Unfallchirurgie, Herausgegeben von: C. Wirth, W. Mutschler, H.P. Bischoff, H. Püschmann, J. Neu, Thieme-Verlag 2010