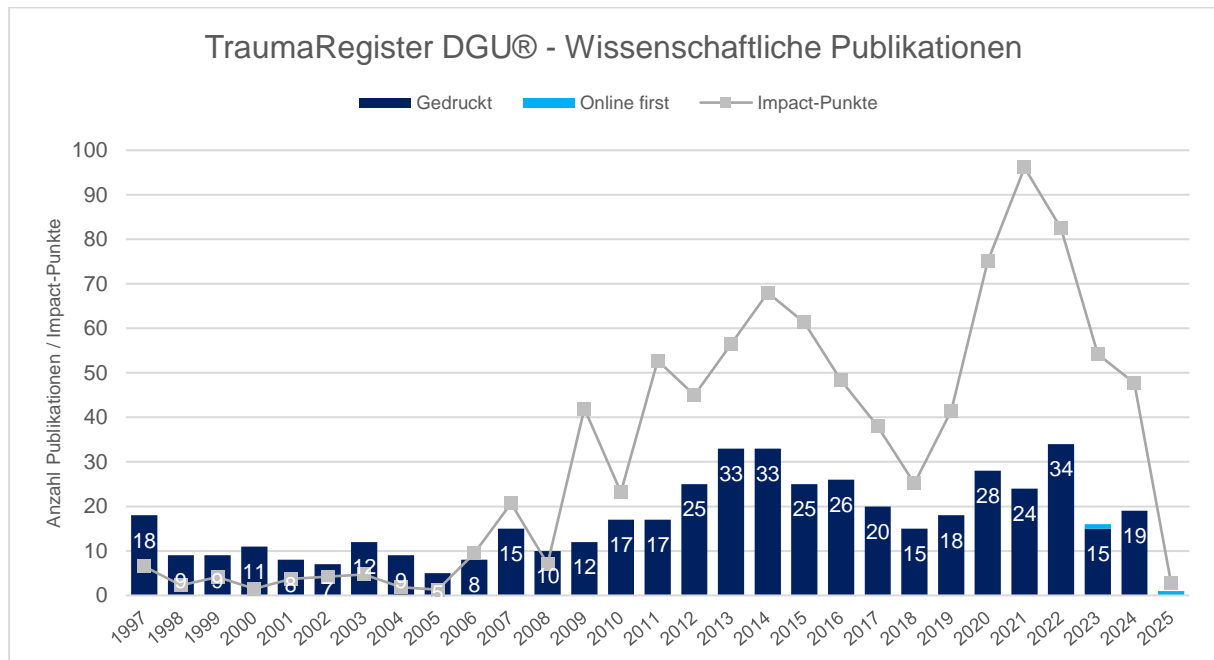


Publikationen aus dem TraumaRegister DGU®

Stand: Februar 2025

Zeitraum: 1997 bis heute

Auswahl: Originalarbeiten, Reviews, Buchbeiträge, Editorials, **keine** Abstracts



2025

Hilbert-Carius P, Lefering R, Wrigge H, Hofmann GO, Davis J, Koch R. Does a Simple Blood Gas Analysis and the Clinical Impression Predict Trauma-Induced Coagulopathy? *Hamostaseologie*. 2025 Jan 20. doi: 10.1055/a-2445-7163. Epub ahead of print.

2024:

Bath MF, Schloer J, Strobel J, Rea W, Lefering R, Maegele M, De'Ath H, Perkins ZB. Trends in pre-hospital volume resuscitation of blunt trauma patients: a 15-year analysis of the British (TARN) and German (TraumaRegister DGU®) National Registries. *Crit Care*. 2024; 28: 81.

Beltzer C, Imach S, Wafaisade A, Lefering R, Kölbel B; TraumaRegister DGU. Use of angioembolization, treatment modalities and mortality in association with blunt liver trauma in Germany — a data analysis of the TraumaRegister DGU®. *Langenbecks Arch Surg* 2024; 409, 6.

Beyersdorf C, Bieler D, Lefering R, Imach S, Hackenberg L, Schiffner E, Thelen S, Lakomek F, Windolf J, Jaekel C, TraumaRegister Dgu. Early Point-of-Care Thromboelastometry Reduces Mortality in Patients with Severe Trauma and Risk of Transfusion: An Analysis Based on the TraumaRegister DGU®. *J Clin Med*. 2024 Jul 11;13(14):4059. doi: 10.3390/jcm13144059.

- Deluca A, Deininger C, Wichlas F, Traweger A, Lefering R, Mueller EJ. Präklinisches Management bei Traumapatienten und die zunehmende Zahl von Helikopter-Rettungstransporten: Eine epidemiologische Studie des TraumaRegister DGU® [Prehospital management in trauma patients and the increasing number of helicopter EMS transportations: An epidemiological study of the TraumaRegister DGU®]. *Unfallchirurgie (Heidelb)*. 2024 Feb;127(2):117-125. doi: 10.1007/s00113-023-01337-6.
- Fitschen-Oestern S, Franke GM, Kirsten N, Lefering R, Lippross S, Schröder O, Klüter T, Müller M, Seekamp A; TraumaRegister DGU. Does tranexamic acid have a positive effect on the outcome of older multiple trauma patients on antithrombotic drugs? An analysis using the TraumaRegister DGU®. *Front Med (Lausanne)*. 2024 Feb 20;11:1324073. doi: 10.3389/fmed.2024.
- Gümbel D, Matthes G, Ekkernkamp A, Laue F, Lefering R; TraumaRegister DGU. Influencing factors for delayed diagnosed injuries in multiple trauma patients - introducing the 'Risk for Delayed Diagnoses Score' (RIDD-Score). *Eur J Trauma Emerg Surg*. 2024 Oct;50(5):2199-2207. doi: 10.1007/s00068-024-02571-2.
- Helsloot D, Fitzgerald M, Lefering R, Groombridge C, Becaus N, Verelst S, Missant C; TraumaRegister DGU. Calcium supplementation during trauma resuscitation: a propensity score-matched analysis from the TraumaRegister DGU®. *Crit Care*. 2024 Jul 5;28(1):222. doi: 10.1186/s13054-024-05002-1.
- Jaekel C, Nienaber U, Neubert A, Kamp O, Wienhöfer L, Nohl A, Maegle M, Duesing H, Erichsen CJ, Frenzel S, Lefering R, Flohe S, Bieler D; Outcome Study Group of the Committee on Emergency Medicine, Intensive Care, Trauma Management (Sektion NIS) of the German Trauma Society (DGU). Implementation of health-related quality of life in the German TraumaRegister DGU® - first results of a pilot study. *Health Qual Life Outcomes*. 2024 Jun 5;22(1):46. doi: 10.1186/s12955-024-02261-y.
- Kölbel B, Imach S, Engelhardt M, Wafaisade A, Lefering R, Beltzer C; TraumaRegister DGU. Angioembolization in patients with blunt splenic trauma in Germany -guidelines vs. Reality a retrospective registry-based cohort study of the TraumaRegister DGU®. *Eur J Trauma Emerg Surg*. 2024 Oct;50(5):2451-2462. doi: 10.1007/s00068-024-02640-6.
- Lefering R, Bieler D. Woran stirbt der schwerverletzte Patient: eine Analyse aus 30 Jahren TraumaRegister DGU [Cause of Death after Severe Trauma: 30 Years Experience from TraumaRegister DGU]. *Zentralbl Chir*. 2024 Aug;149(4):378-383. German. doi: 10.1055/a-2324-1627.
- Lefering R, Waydhas C and TraumaRegister DGU. Prediction of prolonged length of stay on the intensive care unit in severely injured patients—a registry-based multivariable analysis. *Front. Med*. 2024; 11:1358205.
- Maek T, Fochtmann U, Jungbluth P, Pass B, Lefering R, Schoeneberg C, Lendemans S, Hussmann B. Reality of treatment for severely injured patients: are there age-specific differences? *BMC Emerg Med*. 2024; 24: 14.
- Pass B, Aigner R, Lefering R, Lendemans S, Hussmann B, Maek T, Bieler D, Bliemel C, Neuerburg C, Schoeneberg C, The TraumaRegister Dgu. An Additional Certification as a Centre for Geriatric Trauma Had No Benefit on Mortality Among Seriously Injured Elderly Patients-An Analysis of the TraumaRegister DGU® with Data of the Registry for Geriatric Trauma (ATR-DGU). *J Clin Med*. 2024 Nov 17;13(22):6914. doi: 10.3390/jcm13226914.

- Pflüger P, Lefering R, Dommasch M, Biberthaler P, Kanz KG. Auswirkung der COVID-19-Pandemie auf die Versorgung von Schwerverletzten: Analyse aus dem TraumaRegister DGU®. Unfallchirurgie (Heidelb). 2024 Jan;127(1):62-68.
- Scherer J, Hax J, Teuben MPJ, Pape HC, Lefering R, Sprengel K. Epidemiology and Mortality of Surgical Amputations in Severely Injured Patients with Extremity Injuries-A Retrospective Analysis of 32,572 Patients from the TraumaRegister DGU®. J Clin Med. 2024 Nov 20;13(22):7000. doi: 10.3390/jcm13227000.
- Scherer J, Jensen KO, Suda AJ, Lefering R, Kollig E, Pape HC, Bieler D. Gunshot injuries in Central Europe - Epidemiology and outcome in Germany, Switzerland and Austria - an analysis based on the TraumaRegister DGU®. Injury. 2024 Oct;55(10):111734. doi: 10.1016/j.injury.2024.111734.
- Spering C, Lehmann W, Möller S, Bieler D, Schweigkofler U, Hackenberg L, Sehmisch S, Lefering R; TraumaRegister DGU. The pelvic vascular injury score (P-VIS): a prehospital instrument to detect significant vascular injury in pelvic fractures. Eur J Trauma Emerg Surg. 2024 Jun;50(3):925-935. doi: 10.1007/s00068-023-02374-x..
- Störmann, P, Hörauf, JA., Sturm, R, Zankena L, Zumsteg JS, Lefering R, Marzi I, Pape HC, Jensen KO; TraumaRegister DGU. Extremity fractures, attempted suicide, blood transfusion and thromboembolic events are independent risk factors for a prolonged hospital stay in severely injured elderly. Aging Clin Exp Res 2024; 36, 161. <https://doi.org/10.1007/s40520-024-02817-4>.
- Trentzsch H, Lefering R, Schweigkofler U; TraumaRegister DGU. Imposter or knight in shining armor? Pelvic circumferential compression devices (PCCD) for severe pelvic injuries in patients with multiple trauma: a trauma-registry analysis. Scand J Trauma Resusc Emerg Med. 2024 Jan 16;32(1):2.
- Weigeldt M, Schulz-Drost S, Stengel D, Lefering R, Treskatsch S, Berger C; TraumaRegister DGU. In-hospital mortality after prehospital endotracheal intubation versus alternative methods of airway management in trauma patients. A cohort study from the TraumaRegister DGU®. Eur J Trauma Emerg Surg. 2024 Aug;50(4):1637-1647. doi: 10.1007/s00068-024-02498-8.

2023:

- Bakir S, Lefering R, Auerbach L, Ekkernkamp A and the TraumaRegister DGU. The quality of care of persons with severe trauma in Germany during the COVID-19 pandemic as assessed with data from the 2020 DGU Trauma Registry [Versorgungsqualität Schwerverletzter in Deutschland während der COVID-19-Pandemie anhand von Daten aus dem TraumaRegister DGU 2020]. Dtsch Arztebl Int 2023; 120: 400-401.
- Berger M, Lefering R, Bauer M, Hofmann GO, Reske S, Hilbert-Carius P; DGU Trauma Registry. Mortality With and Without Whole-Body CT in Severely Injured Children. Dtsch Arztebl Int. 2023; 120(11):180-185.
- Biber R, Kopschina C, Willauschus M, Bail HJ, Lefering R; TraumaRegister DGU. CT scan and conventional x-ray in multiple injured patient care: diagnostic strategies and outcomes analysed from the TraumaRegister DGU®. Eur J Trauma Emerg Surg. 2023 Aug;49(4):1927-1932.
- Bläsius FM, Laubach M, Lefering R, Hildebrand F, Andruszkow H. Adherence to the transfer recommendations of the German Trauma Society in severely injured children: a retrospective study from the TraumaRegister DGU. Sci Rep. 2023; 13: 12152.

- Fuchs K, Backhaus R, Jordan MC, Lefering R, Meffert RH, Gilbert F; das TraumaRegister DGU. Der schwer verletzte ältere Fahrradfahrer – Auswertung des TraumaRegister DGU® : Retrospektive, multizentrische Querschnittstudie anhand des TraumaRegister DGU® [The severely injured older cyclist-Evaluation of the TraumaRegister DGU® : Retrospective, multicenter cross-sectional study based on the TraumaRegister DGU®]. *Unfallchirurgie* 2023; 126:952–959.
- Hax J, Teuben M, Halvachizadeh S, Berk T, Scherer J, Jensen KO, Lefering R, Pape HC, Sprengel K; TraumaRegister DGU. Timing of Spinal Surgery in Polytrauma: The Relevance of Injury Severity, Injury Level and Associated Injuries. *Global Spine J.* 2023 Nov 14:21925682231216082. Epub ahead of print.
- Helsloot D, Fitzgerald MC, Lefering R, Verelst S, Missant C; and the TraumaRegister DGU®. The first hour of trauma reception is critical for patients with major thoracic trauma: A retrospective analysis from the TraumaRegister DGU. *Eur J Anaesthesiol.* 2023 Nov 1;40(11):865-873.
- Helsloot D, Fitzgerald M, Lefering R, Verelst S, Missant C; TraumaRegister DGU. Trauma-induced disturbances in ionized calcium levels correlate parabolically with coagulopathy, transfusion, and mortality: a multicentre cohort analysis from the TraumaRegister DGU®. *Crit Care.* 2023; 27(1):267.
- Kaim A, Bodas M, Bieler D, Radomislensky I, Matthes G, Givon A, Trentzsch H; Israel Trauma Group; Waydhas C, Lefering R. Severe trauma in Germany and Israel: are we speaking the same language? A trauma registry comparison. *Front Public Health.* 2023; 11:1136159.
- Koch DA, Hagebusch P, Lefering R, Faul P, Hoffmann R, Schweigkofler U; TraumaRegister DGU. Changes in injury patterns, injury severity and hospital mortality in motorized vehicle accidents: a retrospective, cross-sectional, multicenter study with 19,225 cases derived from the TraumaRegister DGU®. *Eur J Trauma Emerg Surg.* 2023 Aug;49(4):1917-1925.
- Mader MM, Lefering R, Westphal M, Maegele M, Czorlich P. Extracorporeal membrane oxygenation in traumatic brain injury - A retrospective, multicenter cohort study. *Injury.* 2023; 54: 1271-1277.
- Mair O, Müller M, Rittstieg P, Zehnder P, Lefering R, Biberthaler P, Wenk MJ, Hanschen M, The TraumaRegister Dgu. Predicting Genitourinary Injuries in Polytraumatized Patients-Development of the GUIPP Scoring System. *J Clin Med.* 2023; 12: 7341.
- Paul MM, Mieden HJ, Lefering R, Kupczyk EK, Jordan MC, Gilbert F, Meffert RH, Sirén AL, Hoelscher-Doht S. Impact of a Femoral Fracture on Outcome after Traumatic Brain Injury-A Matched-Pair Analysis of the TraumaRegister DGU®. *J Clin Med.* 2023; 12(11):3802.
- Spering C, Bieler D, Ruchholtz S, Bouillon B, Hartensuer R, Lehmann W, Lefering R, Düsing H; for Committee on Emergency Medicine, Intensive Care and Trauma Management (Sektion NIS) of the German Trauma Society (DGU). Evaluation of the interhospital patient transfer after implementation of a regionalized trauma care system (TraumaNetzwerk DGU®) in Germany. *Front Med (Lausanne).* 2023;10:1298562.
- von Lübken F, Prause S, Lang P, Friemert BD, Lefering R, Achatz G. Early total care or damage control orthopaedics for major fractures ? Results of propensity score matching for early definitive versus early temporary fixation based on data from the trauma registry of the German Trauma Society (TraumaRegister DGU®). *Eur J Trauma Emerg Surg.* 2023 Aug;49(4):1933-1946.
- Wilharm A, Pflug A, Loos F, Sommerfeld O, Hofmann GO, Sauer S. Causes of Death in the Seriously Injured -Why do Severely Injured Patients Die Today? *Z Orthop Unfall.* 2023;161(3):297-303.

2022:

- Bakir MS, Langenbach A, Pinther M, Lefering R, Krinner S, Grosso M, Ekkernkamp A, Schulz-Drost S; TraumaRegister DGU. The significance of a concomitant clavicle fracture in flail chest patients: incidence, concomitant injuries, and outcome of 12,348 polytraumata from the TraumaRegister DGU®. *Eur J Trauma Emerg Surg.* 2022; 48: 3623-3634.
- Becker L, Schulz-Drost S, Spering C, Franke A, Dudda M, Kamp O, Lefering R, Matthes G, Bieler D and on behalf of the Committee on Emergency Medicine, Intensive Care and Trauma Management (Sektion NIS) of the German Trauma Society (DGU). Impact of Time of Surgery on the Outcome after Surgical Stabilization of Rib Fractures in Severely Injured Patients with Severe Chest Trauma— A Matched-Pairs Analysis of the German Trauma Registry. *Frontiers in Surgery* 2022; 9: Article 852097.
- Becker L, Schulz-Drost S, Spering C, Franke A, Dudda M, Lefering R, Matthes G, Bieler D; Committee on Emergency Medicine, Intensive Care, Trauma Management (Sektion NIS) of the German Trauma Society (DGU). Effect of surgical stabilization of rib fractures in polytrauma: an analysis of the TraumaRegister DGU®. *Eur J Trauma Emerg Surg.* 2022; 48: 2773-2781.
- Bieler D, Trentzsch H, Franke A, Baacke M, Lefering R, Paffrath T, Becker L, Düsing H, Heindl B, Jensen KO, Oezkurtul O, Schweigkofler U, Sprengel K, Wohlrath B, Waydhas C; Committee on Emergency Medicine, Intensive Care and Trauma Management (Sektion NIS) of the German Trauma Society (DGU). Evaluation of a standardized instrument for post hoc analysis of trauma-team-activation-criteria in 75,613 injured patients an analysis of the TraumaRegister DGU®. *Eur J Trauma Emerg Surg.* 2022; 48: 1101-1109.
- Bläsius FM, Laubach M, Andruszkow H, Lichte P, Pape HC, Lefering R, Horst K, Hildebrand F; Trauma Register DGU®. Strategies for the treatment of femoral fractures in severely injured patients: trends in over two decades from the TraumaRegister DGU®. *Eur J Trauma Emerg Surg.* 2022; 48: 1769-1778.
- Bruns N, Kamp O, Lange KM, Lefering R, Felderhoff-Muser U, Dudda M, Dohna-Schwake C. Functional short-term outcomes and mortality in children with severe traumatic brain injury - comparing decompressive craniectomy and medical management. *J Neurotrauma.* 2022; 39: 944-953.
- Colcuc C, Fischer S, Leimkühler P, Miersbach M, Lefering R, Dgu T, Wähnert D, Vordemvenne T, Grüneweller N. Impact of the First and Second Wave of the SARS-CoV-2 Pandemic on Severe Trauma and the Care Structures in the German TraumaNetzwerk DGU®. *J Clin Med.* 2022;11(23):7036.
- Driessen A, Wafaisade A, Lefering R, Migliorini F, Fröhlich M, Arbab D, Maegele M, Mutschler M. Mechanism, frequency, transfusion and outcome of severe trauma in coagulopathic paediatric patients. *Eur J Trauma Emerg Surg.* 2022; 48(1):153-161.
- Fochtmann U, Jungbluth P, Maek M, Zimmermann W, Lefering R, Lendemans S, Hussmann B; Trauma-Register DGU Sektion Notfall- Intensivmedizin und Schwerverletztenversorgung (Sektion NIS) der Deutschen Gesellschaft für Unfallchirurgie (DGU). Führt eine urologische Begleitverletzung beim Schwerstverletzten zu einer Outcomeverschlechterung? Eine multivariate Risikoanalyse. *Urologie.* 2022; 61: 629-637.
- Frieler S, Lefering R, Gerstmeyer J, Drotleff N, Schildhauer TA, Waydhas C, Hamsen U; TraumaRegister DGU. Keeping it simple: the value of mortality prediction after trauma with basic indices like the Reverse Shock Index multiplied by Glasgow Coma Scale. *Emerg Med J.* 2022; 39: 912-917.

- Gäßler M, Ruppert M, Lefering R, Bouillon B, Wafaisade A; TraumaRegister DGU. Schwerverletztenversorgung durch Notärzte aus unterschiedlichen Fachgebieten: Eine retrospektive, multizentrische Untersuchung aus Daten der ADAC Luftrettung und des deutschen TraumaRegister DGU®. *Unfallchirurg*. 2022; 125: 967-974.
- Häske D, Lefering R, Stock JP, Kreinest M; TraumaRegister DGU. Epidemiology and predictors of traumatic spine injury in severely injured patients: implications for emergency procedures. *Eur J Trauma Emerg Surg*. 2022; 48: 1975-1983.
- Halvachizadeh S, Störmann PJ, Özkurtul O, Berk T, Teuben M, Sprengel K, Pape HC, Lefering R, Jensen KO; TraumaRegister DGU. Discrimination and calibration of a prediction model for mortality is decreased in secondary transferred patients: a validation in the TraumaRegister DGU. *BMJ Open*. 2022; 12: e056381.
- Huckhagel T, Riedel C, Rohde V, Lefering R. Cranial nerve injuries in patients with moderate to severe head trauma - Analysis of 91,196 patients from the TraumaRegister DGU® between 2008 and 2017. *Clin Neurol Neurosurg*. 2022; 212: 107089.
- Jaekel C, Oezel L, Bieler D, Grassmann JP, Rang C, Lefering R, Windolf J, Thelen S; Sektion Notfall-, Intensivmedizin und Schwerverletztenversorgung (Sektion NIS) der DGU. Implikationen der prähospitalen Einschätzung des Traumapatienten auf den Behandlungsverlauf – Eine Auswertung aus dem TraumaRegister DGU®. *Anaesthesist*. 2022; 71: 94-103.
- Jerkku T, Tsilimparis N, Banafsche R. Die Gefäßverletzung – eine unterschätzte Entität?: Einfluss auf Prognose und Ergebnis in der Schwerverletztenversorgung. *Gefasschirurgie*. 2022;27(3):156-169.
- Kalbas Y, Lempert M, Ziegenhain F, Scherer J, Neuhaus V, Lefering R, Teuben M, Sprengel K, Pape HC, Jensen KO; TraumaRegister DGU. A retrospective cohort study of 27,049 polytraumatized patients age 60 and above: identifying changes over 16 years. *Eur Geriatr Med*. 2022; 13: 233-241.
- Knoepfel A, Roman Pfeifer R, Lefering R, Pape HC, TraumaRegister DGU. The AdHOC (age, head injury, oxygenation, circulation) score: a simple assessment tool for early assessment of severely injured patients with major fractures. *Eur J Trauma Emerg Surg*. 2022; 48: 411-421.
- Lefering R, Waydhas C; TraumaRegister DGU. Process times of severely injured patients in the emergency room are associated with patient volume: a registry-based analysis. *Eur J Trauma Emerg Surg*. 2022; 48: 4615-4622.
- Mader MM, Lefering R, Westphal M, Maegele M, Czorlich P. Traumatic brain injury with concomitant injury to the spleen: characteristics and mortality of a high-risk trauma cohort from the TraumaRegister DGU®. *Eur J Trauma Emerg Surg*. 2022; 48: 4445-4459.
- Maek T, Fochtmann U, von Loewenich A, Jungbluth P, Zimmermann W, Lefering R, Lendemans S, Hussmann B. Is prehospital intubation of severely injured children in accordance with guidelines? *BMC Emerg Med*. 2022; 22: 194.
- Mair O, Greve F, Lefering R, Biberthaler P, Hanschen M; TraumaRegister DGU. The outcome of severely injured patients following traumatic brain injury is affected by gender-A retrospective, multi-center, matched-pair analysis utilizing data of the TraumaRegister DGU®. *Front Neurosci*. 2022;16:974519.

- Oezel L, Jaekel C, Bieler D, Stuewe D, Neubert A, Lefering R, Grassmann JP, Windolf J, Thelen S; Sektion Notfall-, Intensivmedizin und Schwerverletztenversorgung (Sektion NIS) der DGU. Unterschiede der Verletzungsmuster bei Motorradunfällen von Kindern und Jugendlichen. *Unfallchirurg*. 2022; 125: 880-891.
- Piekarski F, Kaufmann J, Engelhardt T, Raimann FJ, Lustenberger T, Marzi I, Lefering R, Zacharowski K, Meybohm P, TraumaRegister DGU. Changes in transfusion and fluid therapy practices in severely injured children: an analysis of 5118 children from the TraumaRegister DGU®. *Eur J Trauma Emerg Surg*. 2022; 48: 373-381.
- Riehl K, Lefering R, Maegele M, Caspers M, Migliorini F, Schenker H, Hildebrand F, Fröhlich M, Driesen A. Is ROTEM Diagnostic in Trauma Care Associated with Lower Mortality Rates in Bleeding Patients?-A Retrospective Analysis of 7461 Patients Derived from the TraumaRegister DGU®. *J Clin Med*. 2022;11(20):6150.
- Seewald S, Wnent J, Gräsner JT, Tjelmeland I, Fischer M, Bohn A, Bouillon B, Maurer H, Lefering R. Survival after traumatic cardiac arrest is possible-a comparison of German patient-registries. *BMC Emerg Med*. 2022;22(1):158.
- Spring C, Müller G, Füzési L, Bouillon B, Rütther H, Lehmann W, Lefering R; and Section of Injury Prevention DGOU; and TraumaRegister DGU. Prevention of severe injuries of child passengers in motor vehicle accidents: is re-boarding sufficient? *Eur J Trauma Emerg Surg*. 2022; 48: 3989-3996.
- Stausberg T, Ahnert T, Thouet B, Lefering R, Böhmer A, Brockamp T, Wafaisade A, Fröhlich M; TraumaRegister DGU. Endotracheal intubation in trauma patients with isolated shock: universally recommended but rarely performed. *Eur J Trauma Emerg Surg*. 2022; 48: 4623-4630.
- Tanner L, Neef V, Raimann FJ, Störmann P, Marzi I, Lefering R, Zacharowski K, Piekarski F; Committee on Emergency Medicine, Intensive Care and Trauma Management (Sektion NIS) of the German Trauma Society (DGU). Influence of anaemia in severely injured patients on mortality, transfusion and length of stay: an analysis of the TraumaRegister DGU®. *Eur J Trauma Emerg Surg*. 2022; 48: 2741-2749.
- Vollrath JT, Schindler CR, Marzi I, Lefering R, Störmann P; TraumaRegister DGU. Lung failure after polytrauma with concomitant thoracic trauma in the elderly: an analysis from the TraumaRegister DGU®. *World J Emerg Surg*. 2022; 17: 12.
- Waydhas C, Bieler D, Hamsen U, Baacke M, Lefering R, TraumaRegister DGU. ISS alone, is not sufficient to correctly assign patients post hoc to trauma team requirement. *Eur J Trauma Emerg Surg*. 2022; 48: 383-392.
- Weber CD, Lefering R, Sellei RM, Horst K, Migliorini F, Hildebrand F, TraumaRegister Dgu. Traumatic Hip Dislocations in Major Trauma Patients: Epidemiology, Injury Mechanisms, and Concomitant Injuries. *J Clin Med*. 2022;11: 472.
- Weber C, Willms A, Bieler D, Schreyer C, Lefering R, Schaaf S, Schwab R, Kollig E, GÜsgen C; and the Committee on Emergency Medicine, Intensive Care and Trauma Management (Sektion NIS) of the German Trauma Society (DGU). Traumatic diaphragmatic rupture: epidemiology, associated injuries, and outcome-an analysis based on the TraumaRegister DGU®. *Langenbecks Arch Surg*. 2022;407(8):3681-3690.
- Willms A, GÜsgen C, Schwab R, Lefering R, Schaaf S, Lock J, Kollig E, Jänig C, Bieler D; Committee on Emergency Medicine, Intensive Care, Trauma Management (Sektion N. I. S.) of the German Trauma Society (DGU). Status quo of the use of DCS concepts and outcome with focus on blunt

abdominal trauma : A registry-based analysis from the TraumaRegister DGU®. *Langenbecks Arch Surg.* 2022; 407: 805-817.

2021:

Barbati ME, Hildebrand F, Andruszkow H, Lefering R, Jacobs MJ, Jalaie H, Gombert A. Prevalence and outcome of abdominal vascular injury in severe trauma patients based on a TraumaRegister DGU international registry analysis. *Sci Rep.* 2021; 11: 20247.

Berger-Groch J, Rueger JM, Czorlich P, Frosch KH, Lefering R, Hoffmann M; Trauma Register DGU. Evaluation of Pelvic Circular Compression Devices in Severely Injured Trauma Patients with Pelvic Fractures. *Prehosp Emerg Care.* 2021: 1-9.

Bieler D, Kollig E, Hackenberg L, Rathjen JH, Lefering R, Franke A; Committee on Emergency Medicine, Intensive Care and Trauma Management (Sektion NIS) of the German Trauma Society (DGU). Penetrating injuries in Germany - epidemiology, management and outcome an analysis based on the TraumaRegister DGU®. *Scand J Trauma Resusc Emerg Med.* 2021; 29: 80.

Bläsius FM, Horst K, Brokmann JC, Lefering R, Andruszkow H, Hildebrand F, TraumaRegister Dgu. Helicopter Emergency Medical Service and Hospital Treatment Levels Affect Survival in Pediatric Trauma Patients. *J Clin Med.* 2021; 10: 837.

Bläsius FM, Laubach M, Andruszkow H, Lübke C, Lichte P, Lefering R, Hildebrand F, Horst K. Impact of anticoagulation and antiplatelet drugs on surgery rates and mortality in trauma patients. *Sci Rep.* 2021; 11: 15172.

Briese T, Theisen C, Schliemann B, Raschke MJ, Lefering R, Weimann A. Shoulder injuries in polytraumatized patients: an analysis of the TraumaRegister DGU®. *Eur J Trauma Emerg Surg.* 2021; 47: 1921-1930.

Brockamp T, Böhmer A, Lefering R, Bouillon B, Wafaisade A, Mutschler M, Kappel P, Fröhlich M; Working Group of Injury Prevention of the German Trauma Society (DGU). Alcohol and trauma: the influence of blood alcohol levels on the severity of injuries and outcome of trauma patients - a retrospective analysis of 6268 patients of the TraumaRegister DGU®. *Scand J Trauma Resusc Emerg Med.* 2021; 29: 101.

Eberbach H, Lefering R, Hager S, Schumm K, Bode L, Jaeger M, Maier D, Kalbhenn J, Hammer T, Schmal H, Bayer J. Influence of surgical stabilization of clavicle fractures in multiply-injured patients with thoracic trauma. *Sci Rep.* 2021; 11: 23263.

Fitschen-Oestern S, Lippross S, Lefering R, Klüter T, Weuster M, Franke GM, Kirsten N, Müller M, Schröder O, Seekamp A; TraumaRegister DGU. Does the time of the day affect multiple trauma care in hospitals? A retrospective analysis of data from the TraumaRegister DGU®. *BMC Emerg Med.* 2021; 21: 134.

Fochtman U, Jungbluth P, Zimmermann W, Lefering R, Lendemans S, Hussmann B. Wirbelsäulenverletzungen ohne Neurologie beim Schwerverletzten: Einfluss auf die Verweildauer? *Z Orthop Unfall.* 2021; 159: 421-429.

Hax J, Halvachizadeh S, Jensen KO, Berk T, Teuber H, Di Primio T, Lefering R, Pape HC, Sprengel K, TraumaRegister Dgu. Curiosity or Underdiagnosed? Injuries to Thoracolumbar Spine with Concomitant Trauma to Pancreas. *J Clin Med.* 2021; 10: 700.

- Jensen KO, Teuben MPJ, Lefering R, Halvachizadeh S, Mica L, Simmen HP, Pfeifer R, Pape HC, Sprengel K; TraumaRegister DGU. Pre-hospital trauma care in Switzerland and Germany: do they speak the same language? *Eur J Trauma Emerg Surg.* 2021; 47: 1273-1280.
- Imach S, Wafaisade A, Lefering R, Böhmer A, Schieren M, Suárez V, Fröhlich M; TraumaRegister DGU. The impact of prehospital tranexamic acid on mortality and transfusion requirements: match-pair analysis from the nationwide German TraumaRegister DGU®. *Crit Care.* 2021; 25: 277.
- Kamp O, Jansen O, Lefering R, Aach M, Waydhas C, Dudda M, Schildhauer TA, Hamsen U; TraumaRegister DGU. Survival among patients with severe high cervical spine injuries - a TraumaRegister DGU® database study. *Scand J Trauma Resusc Emerg Med.* 2021; 29:1.
- Kirchner T, Lefering R, Sandkamp R, Eberbach H, Schumm K, Schmal H, Bayer J; TraumaRegister DGU. Thromboembolic complications among multiple injured patients with pelvic injuries: identifying risk factors for possible patient-tailored prophylaxis. *World J Emerg Surg.* 2021; 16: 42.
- Lai CY, Maegele M, Yeung JHH, Lefering R, Hung KCK, Chan PSL, Leung M, Wong HT, Wong JKS, Graham CA, Cheng CH, Cheung NK. Major trauma care in Hong Kong and Germany: a trauma registry data benchmark study. *Eur J Trauma Emerg Surg.* 2021; 47: 1581-1590.
- Lefering R, Huber-Wagner S, Bouillon B, Lawrence T, Lecky F, Bouamra O. Cross-validation of two prognostic trauma scores in severely injured patients. *Eur J Trauma Emerg Surg.* 2021; 47: 1837-1845.
- Leiblein M, Sturm R, Franz N, Mühlenfeld N, Relja B, Lefering R, Marzi I, Wagner N. The Influence of Alcohol on The Base Excess Parameter in Trauma Patients. *Shock.* 2021; 56: 727-732.
- Mader MM, Rotermund R, Lefering R, Westphal M, Maegele M, Czorlich P; TraumaRegister DGU. The faster the better? Time to first CT scan after admission in moderate-to-severe traumatic brain injury and its association with mortality. *Neurosurg Rev.* 2021; 44: 2697-2706.
- Nohl A, Seelmann C, Roenick R, Ohmann T, Lefering R, Brune B, Weichert V, Dudda M, The Trauma-Register Dgu. Impact of DST (Daylight Saving Time) on Major Trauma: A European Cohort Study. *Int J Environ Res Public Health.* 2021; 18: 13322.
- Scherer J, Kalbas Y, Ziegenhain F, Neuhaus V, Lefering R, Teuben M, Sprengel K, Pape HC, Jensen KO. The GERtality Score: The Development of a Simple Tool to Help Predict in-Hospital Mortality in Geriatric Trauma Patients. *J Clin Med.* 2021; 10: 1362.
- Schulz-Drost S, Finkbeiner R, Lefering R, Grosso M, Krinner S, Langenbach A, Dgu TT. Lung Contusion in Polytrauma: An Analysis of the TraumaRegister DGU. *Thorac Cardiovasc Surg.* 2021 Dec;69(8):735-748.
- Teuben MPJ, Mand C, Moosdorf L, Sprengel K, Shehu A, Pfeifer R, Ruchholtz S, Lefering R, Pape HC, Jensen KO. Simultaneous Casualty Admissions-Do they Affect Treatment in the Receiving Trauma Center? *World J Surg.* 2021; 45: 2037-2045.
- Ziegenhain F, Scherer J, Kalbas Y, Neuhaus V, Lefering R, Teuben M, Sprengel K, Pape HC, Jensen KO and the TraumaRegister DGU. Age-Dependent Patient and Trauma Characteristics and Hospital Resource Requirements - Can Improvement Be Made? An Analysis from the German Trauma Registry. *Medicina* 2021; 57: 330.

2020:

- Bakir MS, Lefering R, Haralambiev L, Kim S, Ekkernkamp A, Gumbel D, Schulz-Drost S. Acromioclavicular and sternoclavicular joint dislocations indicate severe concomitant thoracic and upper extremity injuries in severely injured patients. *Sci Rep.* 2020; 10: 21606.
- Bieler D, Hörster A, Lefering R, Franke A, Waydhas C, Huber-Wagner S, Baacke M, Paffrath T, Wnent J, Volland R, Jakisch B, Walcher F, Kulla M. Evaluation of new quality indicators for the TraumaRegister DGU® using the systematic QUALIFY methodology. *Eur J Trauma Emerg Surg.* 2020; 46: 449-460. s. auch Erratum:
Bieler D, Hörster A, Lefering R, Franke A, Waydhas C, Huber-Wagner S, Baacke M, Paffrath T, Wnent J, Volland R, Jakisch B, Walcher F, Kulla M. Correction to: Evaluation of new quality indicators for the TraumaRegister DGU® using the systematic QUALIFY methodology. Eur J Trauma Emerg Surg. 2020; 46: 461-462.
- Bieler D, Paffrath T, Schmidt A, Völlmecke M, Lefering R, Kulla M, Kollig E, Franke A, Sektion NIS of the German Trauma Society. Why do some trauma patients die while others survive? A matched-pair analysis based on data from Trauma Register DGU®. *Chinese Journal of Traumatology* 2020; 23(4):224-232.
- Cornero SG, Maegele M, Lefering R, Abbati C, Gupta S, Sammartano F, Cimbanassi S, Chiara O. Predictive Factors for Massive Transfusion in Trauma: A Novel Clinical Score from an Italian Trauma Center and German Trauma Registry. *J Clin Med.* 2020; 9: 3235.
- Czorlich P, Mader MM, Emami P, Westphal M, Lefering R, Hoffmann M. Operative versus non-operative treatment of traumatic brain injuries in patients 80 years of age or older. *Neurosurg Rev.* 2020; 43: 1305-1314.
- Defosse J, Grensemann J, Gerbershagen MU, Paffrath T, Böhmer A, Joppich R, Lefering R, Wappler F, Schieren M; TraumaRegister DGU®. Continuous lateral rotational bed therapy in patients with traumatic lung injury: an analysis from the TraumaRegister DGU®. *Med Klin Intensivmed Notfmed.* 2020; 115: 222-227.
- Eibinger N, Halvachizadeh S, Hallmann B, Seibert FJ, Puchwein P, Berk T, Lefering R, Sprengel K, Pape HC, Jensen KO, The TraumaRegister DGU. Is the Regular Intake of Anticoagulative Agents an Independent Risk Factor for the Severity of Traumatic Brain Injuries in Geriatric Patients? A Retrospective Analysis of 10,559 Patients from the TraumaRegister DGU®. *Brain Sci.* 2020; 10: E842.
- Fitschen-Oestern S, Lippross S, Lefering R, Klüter T, Behrendt P, Weuster M, Seekamp S, TraumaRegister Dgu. Missed Hand and Forearm Injuries in Multiple Trauma Patients: An Analysis from the TraumaRegister DGU®. *Injury*, 2020; 51_ 1608-1617.
- Fröhlich M, Caspers M, Lefering R, Driessen A, Bouillon B, Maegele M, Wafaisade A; TraumaRegister DGU. Do elderly trauma patients receive the required treatment? Epidemiology and outcome of geriatric trauma patients treated at different levels of trauma care. *Eur J Trauma Emerg Surg.* 2020; 46: 1463-1469.
- Greve F, Kanz KG, Zyskowski M, von Matthey F, Biberthaler P, Muthers S, Matzarakis A, Lefering R, Huber-Wagner S. The influence of foehn winds on the incidence of severe injuries in southern Bavaria - an analysis of the TraumaRegister DGU®. *BMC Musculoskelet Disord* 2020 Aug; 21: 568.
- Hager S, Eberbach H, Lefering R, Hammer TO, Kubosch D, Jäger C, Südkamp NP, Bayer J, TraumaRegister DGU®. Possible advantages of early stabilization of spinal fractures in multiply injured

- patients with leading thoracic trauma - analysis based on the TraumaRegister DGU®. *Scand J Trauma Resusc Emerg Med.* 2020; 28: 42.
- Hamsen U, Drotleff N, Lefering R, Gerstmeyer J, Schildhauer TA, Waydhas C; TraumaRegister DGU. Mortality in severely injured patients: nearly one of five non-survivors have been already discharged alive from ICU. *BMC Anesthesiol.* 2020; 20: 243.
- Hörster AC, Kulla M, Bieler D, Lefering R. Empirical evaluation of quality indicators for severely injured patients in the TraumaRegister DGU®. *Unfallchirurg.* 2020; 123: 206-215.
- Huckhagel T, Regelsberger J, Westphal M, Nüchtern J, Lefering R. Damage to the eye and optic nerve in seriously traumatized patients with concomitant head injury: analysis of 84,627 cases from the TraumaRegister DGU® between 2002 and 2015. *Scand J Trauma Resusc Emerg Med.* 2020; 28: 15.
- Kamp O, Jansen O, Lefering R, Meindl R, Waydhas C, Schildhauer TA, Hamsen U; TraumaRegister DGU. Cervical Spinal Cord Injury Shows Markedly Lower than Predicted Mortality (>72 Hours After Multiple Trauma) From Sepsis and Multiple Organ Failure. *J Intensive Care Med.* 2020; 35: 378-382.
- Lustenberger T, Lefering R. Focus on "The German TraumaRegister DGU® (TR-DGU)" - Editorial. *Eur J Trauma Emerg Surg.* 2020; 46: 447-448.
- Nolte PC, Häske D, Lefering R, Bernhard M, Casu S, Frankenhauser S, Gather A, Grütznier PA, Münzberg M, TraumaRegister DGU. Training to identify red flags in the acute care of trauma: who are the patients at risk for early death despite a relatively good prognosis? An analysis from the TraumaRegister DGU®. *World J Emerg Surg.* 2020; 15: 47.
- Pietzka S, Kämmerer PW, Pietzka S, Schramm A, Lampl L, Lefering R, Bieler D, Kulla M. Maxillofacial injuries in severely injured patients after road traffic accidents-a retrospective evaluation of the TraumaRegister DGU® 1993-2014. *Clin Oral Investig.* 2020; 24: 503-513.
- Relja B, Huber-Lang M, van Griensven M, Hildebrand F, Maegele M, Nienaber U, Brucker DP, Sturm R, Marzi I. A nationwide fluidics biobank of polytraumatized patients: implemented by the Network "Trauma Research" (NTF) as an expansion to the TraumaRegister DGU® of the German Trauma Society (DGU). *Eur J Trauma Emerg Surg.* 2020; 46: 499-504.
- Schibilsky D, Driessen A, White WJ, Lefering R, Paffrath T, Bouillon B, Walker T, Schlensak C, Mutschler M. Traumatic tracheobronchial injuries: incidence and outcome of 136.389 patients derived from the DGU traumaregister. *Sci Rep.* 2020; 10: 20555.
- Schieren M, Wappler F, Wafaisade A, Lefering R, Sakka SG, Kaufmann J, Heiroth HJ, Defosse J, Böhrmer AB. Impact of blunt chest trauma on outcome after traumatic brain injury- a matched-pair analysis of the TraumaRegister DGU®. *Scand J Trauma Resusc Emerg Med.* 2020; 28: 21.
- Schulz-Drost S, Mersch D, Gumbel D, Matthes G, Hennig FF, Ekkernkamp A, Lefering R, Krinner S; TraumaRegister DGU. Emergency department thoracotomy of severely injured patients: an analysis of the TraumaRegister DGU®. *Eur J Trauma Emerg Surg.* 2020; 46: 473-485.
- Spering C, Lefering R, Bouillon B, Lehmann W, von Eckardstein K, Dresing K, Sehmisch S. It is time for a change in the management of elderly severely injured patients! An analysis of 126,015 patients from the TraumaRegister DGU®. *Eur J Trauma Emerg Surg.* 2020; 46: 487-497.
- Trentzsch H, Osterhoff G, Heller R, Nienaber U, Lazarovici M; AG Digitalisierung; der Deutschen Gesellschaft für Orthopädie und Unfallchirurgie (DGOU); Sektion Notfall-, Intensivmedizin und

- Schwerverletztenversorgung (NIS) der Deutschen Gesellschaft für Unfallchirurgie (DGU). Herausforderungen der Digitalisierung in der Traumaversorgung. *Unfallchirurg*. 2020; 123: 843-848.
- Trentzsch H, Weißleder A, Annecke T, Beinkofer D, Beese A, Kulla M, Kraft K, Pecks U, Hoffmann F, Bieler D; Sektion Notfall-, Intensivmedizin und Schwerverletztenversorgung (NIS) der Deutschen Gesellschaft für Unfallchirurgie (DGU). Entwicklung eines neuen Moduls für das TraumaRegister DGU®: Folgen schwerer Verletzungen während der Schwangerschaft besser erfassen. *Unfallchirurg*. 2020; 123: 954-960.
- Wagner N, Relja B, Lustenberger T, Leiblein M, Wutzler S, Lefering R, Marzi I; TraumaRegister DGU. The influence of alcohol on the outcome of trauma patients: a matched-pair analysis of the TraumaRegister DGU®. *Eur J Trauma Emerg Surg*. 2020; 46: 463-472.
- Weber CD, Solomon LB, Lefering R, Horst K, Kobbe P, Hildebrand F, Dgu T. Which Risk Factors Predict Knee Ligament Injuries in Severely Injured Patients? Results from an International Multicenter Analysis. *J Clin Med*. 2020; 9: pii: E1437.
- Weißleder A, Kulla M, Annecke T, Beese A, Lang P, Beinkofer D, Lefering R, Trentzsch H, Jost C, Treffer D; das TraumaRegister DGU®. Akutbehandlung schwangerer Patientinnen nach schwerem Trauma – eine retrospektive Multicenteranalyse. *Unfallchirurg*. 2020; 123: 944-953.
- 2019:**
- Debus F, Lefering R, Lechler P, Ruchholtz S, Frink M; TraumaRegister DGU. Frühe klinische Versorgungsstrategien für schwerverletzte Patienten mit Abdominaltrauma. *Chirurg*. 2019; 90: 752–757.
- Eden L, Kühn A, Gilbert F, Meffert RH, Lefering R. Increased Mortality Among Critically Injured Motorcyclists Over 65 Years of Age. *Dtsch Arztebl Int*. 2019;116: 479-485.
- Eden L, Kühn A, Gilbert F, Meffert RH, Lefering R. Höhere Sterblichkeit bei schwerverletzten Motorradfahrern über 65 Jahren. *Dtsch Arztebl*. 2019;116: 479-485.
- Emami P, Czorlich P, Fritzsche FS, Westphal M, Rueger JM, Lefering R, Hoffmann M; TraumaRegister DGU® of the German Trauma Society (Deutsche Gesellschaft für Unfallchirurgie; DGU). Observed versus expected mortality in pediatric patients intubated in the field with Glasgow Coma Scale scores < 9. *Eur J Trauma Emerg Surg*. 2019; 45: 769-776.
- Fitschen-Oestern S, Lippross S, Lefering R, Besch L, Klüter T, Schenzer-Hoffmann E, Seekamp A, TraumaRegister Dgu. Missed foot fractures in multiple trauma patients. *BMC Musculoskelet Disord*. 2019; 20 :121.
- Fröhlich M, Mutschler M, Caspers M, Nienaber U, Jäcker V, Driessen A, Bouillon B, Maegele M; TraumaRegister DGU. Trauma-induced coagulopathy upon emergency room arrival: still a significant problem despite increased awareness and management? *Eur J Trauma Emerg Surg*. 2019; 45: 115-124.
- Gäßler M, Ruppert M, Lefering R, Bouillon B, Wafaisade A; TraumaRegister DGU. Pre-hospital emergent intubation in trauma patients: the influence of etomidate on mortality, morbidity and healthcare resource utilization. *Scand J Trauma Resusc Emerg Med*. 2019; 27: 61.
- Gather A, Grützner PA, Münzberg M. Polytrauma in old age-Knowledge from the TraumaRegister DGU®. *Chirurg*. 2019; 90: 791-794. (Übersichtsarbeit) *

- Heinänen M, Brinck T, Lefering R, Handolin L, Söderlund T. Resource use and clinical outcomes in blunt thoracic injury: a 10-year trauma registry comparison between southern Finland and Germany. *Eur J Trauma Emerg Surg.* 2019; 45: 585-595.
- Horst K, Andruszkow H, Weber CD, Pishnamaz M, Knobe M, Bläsius FM, Lichte P, Lefering R, Hildebrand F. Surgical treatment strategies in pediatric trauma patients: ETC vs. DCO - an analysis of 316 pediatric trauma patients from the TraumaRegister DGU®. *Eur J Trauma Emerg Surg* 2019; 45: 801-808.
- Hussmann B, Schoeneberg C, Jungbluth P, Heuer M, Lefering R, Maek T, Hildebrand F, Lendemans S, Pape HC. Enhanced prehospital volume therapy does not lead to improved outcomes in severely injured patients with severe traumatic brain injury. *BMC Emerg Med.* 2019; 19:13.
- Klein K, Lefering R, Jungbluth P, Lendemans S, Hussmann B. Is Prehospital Time Important for the Treatment of Severely Injured Patients? A Matched-Triplet Analysis of 13,851 Patients from the TraumaRegister DGU®. *BioMed Research International* 2019; Article ID 5936345, 10 pages.
- Maegele M, Lefering R, Sakowitz O, Kopp MA, Schwab JM, Steudel WI, Unterberg A, Hoffmann R, Uhl E, Marzi I. The Incidence and Management of Moderate to Severe Head Injury. *Dtsch Arztebl Int.* 2019; 116: 167-173.
- Rauf R, von Matthey F, Croenlein M, Zyskowski M, van Griensven M, Biberthaler P, Lefering R, Huber-Wagner S; Section NIS of DGU. Changes in the temporal distribution of in-hospital mortality in severely injured patients-An analysis of the TraumaRegister DGU. *PLoS One.* 2019; 14: e0212095.
- Schieren M, Böhmer AB, Lefering R, Paffrath T, Wappler F, Defosse J; TraumaRegister DGU. Impact of body mass index on outcomes after thoracic trauma-A matched-triplet analysis of the TraumaRegister DGU®. *Injury* 2019;50: 96-100.
- Timm A, Maegele M, Wendt K, Lefering R, Wyen H, TraumaRegister DGU. Pre-hospital rescue times and interventions in severe trauma in Germany and the Netherlands: a matched-pairs analysis. *Eur J Trauma Emerg Surg.* 2019; 45: 1059-1067.
- Weber CD, Lefering R, Weber MS, Bier G, Knobe M, Pishnamaz M, Kobbe P, Hildebrand F; TraumaRegister DGU. Predictors for Pediatric Blunt Cerebrovascular Injury (BCVI): An International Multicenter Analysis. *World J Surg.* 2019; 43: 2337-2347.
- Weber CD, Hildebrand F, Kobbe P, Lefering R, Sellei RM, Pape HC; TraumaRegister DGU. Epidemiology of open tibia fractures in a population-based database: update on current risk factors and clinical implications. *Eur J Trauma Emerg Surg.* 2019; 45: 445-453.
- Wilharm A, Kulla M, Baacke M, Wagner F, Behnke M, Lefering R et al. Prähospital Kapnometrie als Qualitätsindikator der Schwerverletztenversorgung. Eine erste Auswertung aus dem TraumaRegister DGU®. *Anästhesiologie Intensivmedizin* 2019; 60: 419–432.

2018:

- Flohé S, Matthes G, Maegele M, Huber-Wagner S, Nienaber U, Lefering R, Paffrath T. Future perspective of the TraumaRegister DGU®: Further development, additional modules and potential limits. *Unfallchirurg.* 2018; 121: 774-780.

- Hilbert-Carius P, Schwarzkopf D, Reinhart K, Hartog CS, Lefering R, Bernhard M, Struck MF. Synthetic colloid resuscitation in severely injured patients: analysis of a nationwide trauma registry (TraumaRegister DGU). *Sci Rep*. 2018; 8: 11567.
- Huckhagel T, Nüchtern J, Regelsberger J, Lefering R; TraumaRegister DGU. Nerve injury in severe trauma with upper extremity involvement: evaluation of 49,382 patients from the TraumaRegister DGU® between 2002 and 2015. *Scand J Trauma Resusc Emerg Med*. 2018; 26: 76.
- Huckhagel T, Nüchtern J, Regelsberger J, Gelderblom M, Lefering R; TraumaRegister DGU®. Nerve trauma of the lower extremity: evaluation of 60,422 leg injured patients from the TraumaRegister DGU® between 2002 and 2015. *Scand J Trauma Resusc Emerg Med*. 2018; 26: 40.
- Kulla M, Engelhardt M, Holsträter T, Bieler D, Lefering R, Elias K und das TraumaRegister DGU. Do we need REBOA as an adjunct to ER thoracotomy in German trauma centres? A secondary data analysis from the TraumaRegister DGU®. *Anästhesi Intensivmed* 2018; 59: 562-573.
- Lefering R, Czorlich P. In Reply to the Letter to the Editor "Body Mass Index >35 as Independent Predictor of Mortality in Severe Traumatic Brain Injury: Statistical and Methodologic Issues". *World Neurosurg*. 2018; 109: 509.
- Palm HG, Kulla M, Wettberg M, Lefering R, Friemert B, Lang P; TraumaRegister DGU®. Changes in trauma management following the implementation of the whole-body computed tomography: a retrospective multi-centre study based on the trauma registry of the German Trauma Society (TraumaRegister DGU®). *Eur J Trauma Emerg Surg*. 2018; 44: 759-766.
- Strohm PC, Zwingmann J, Bayer J, Neumann MV, Lefering R, Schmal H, Reising K. Unterschiede im Outcome schwerverletzter Kinder in Abhängigkeit von der Versorgungsstufe. *Unfallchirurg* 2018; 121: 306-312.
- Trentzsch H, Maegele M, Nienaber U, Paffrath T, Lefering R. The TraumaRegister DGU® dataset, its development over 25 years and advances in the care of severely injured patients. *Unfallchirurg* 2018; 121: 794-801.
- Waydhas C, Baake M, Becker L, Buck B, Düsing H, Heindl B, Jensen KO, Lefering R, Mand C, Paffrath T, Schweigkofler U, Sprengel K, Trentzsch H, Wohlrath B, Bieler D. A Consensus-Based Criterion Standard for the Requirement of a Trauma Team. *World J Surg*. 2018; 42: 2800-2809.
- Waydhas C, Lefering R, Hoefler C. Wissenschaftlicher Impact des TraumaRegister DGU®. *Unfallchirurg* 2018; 121: 781-787.
- Weber CD, Horst K, Nguyen AR, Lefering R, Pape HC, Hildebrand F; TraumaRegister DGU. Evaluation of severe and fatal injuries in extreme and contact sports: an international multicenter analysis. *Arch Orthop Trauma Surg*. 2018; 138: 963-970.
- Weber CD, Lefering R, Kobbe P, Horst K, Pishnamaz M, Sellei RM, Hildebrand F, Pape HC; TraumaRegister DGU. Blunt Cerebrovascular Artery Injury and Stroke in Severely Injured Patients: An International Multicenter Analysis. *World J Surg*. 2018; 42: 2043-2053.
- Ziprian T, Laue F, Ramadanov N, Nienaber U, Volland R, Lefering R, Matthes G. Data content of the TraumaRegister DGU®: Results of a random sample control. *Unfallchirurg*. 2018; 121: 802-809.
- Zwingmann J, Lefering R, Maier D, Hohloch L, Eberbach H, Neumann M, Strohm PC, Südkamp NP, Hammer T. Pelvic fractures in severely injured children: Results from the TraumaRegister DGU. *Medicine (Baltimore)* 2018; 97: e11955.

2017:

- Ali Ali B, Lefering R, Fortun Moral M, Belzunegui Otano T. Epidemiological comparison between the Navarra Major Trauma Registry and the German Trauma Registry (TR-DGU®). *Scand J Trauma Resusc Emerg Med.* 2017; 25: 107.
- Bayer J, Lefering R, Reinhardt S, Kühle J, Südkamp NP, Hammer T, TraumaRegister DGU. Severity-dependent differences in early management of thoracic trauma in severely injured patients - Analysis based on the TraumaRegister DGU®. *Scand J Trauma Resusc Emerg Med.* 2017; 25: 10.
- Bayer J, Lefering R, Reinhardt S, Kühle J, Zwingmann J, Südkamp NP, Hammer T, TraumaRegister DGU. Thoracic trauma severity contributes to differences in intensive care therapy and mortality of severely injured patients: analysis based on the TraumaRegister DGU®. *World J Emerg Surg.* 2017; 12: 43.
- Bieler D, Franke A, Lefering R, Hentsch S, Willms A, Kulla M, Kollig E, the TraumaRegister DGU. Does the presence of an emergency physician influence pre-hospital time, pre-hospital interventions and the mortality of severely injured patients? A matched-pair analysis based on the trauma registry of the German Trauma Society (TraumaRegister DGU). *Injury* 2017; 48: 32-40.
- Brockamp T, Schmucker U, Lefering R, Mutschler M, Driessen A, Probst C, Bouillon B, Koenen P; Working Group Injury Prevention of the German Trauma Society (DGU); Committee on Emergency Medicine, Intensive Care and Trauma Management of the German Trauma Society (Section NIS); TraumaRegister DGU. Comparison of transportation related injury mechanisms and outcome of young road users and adult road users, a retrospective analysis on 24,373 patients derived from the TraumaRegister DGU®. *Scand J Trauma Resusc Emerg Med.* 2017; 25: 57.
- Czorlich P, Dreimann M, Emami P, Westphal M, Lefering R, Hoffmann M. Body-Mass-Index > 35 as an Independent Predictor of Mortality in Severe Traumatic Brain Injury. *World Neurosurg.* 2017; 107: 515-521.
- Emami P, Czorlich P, Fritzsche FS, Westphal M, Rueger JM, Lefering R, Hoffmann M. Impact of Glasgow Coma Scale score and pupil parameters on mortality rate and outcome in pediatric and adult severe traumatic brain injury: a retrospective, multicenter cohort study. *J Neurosurg.* 2017; 126: 760-767.
- Esmer E, Derst P, Lefering R, Schulz M, Siekmann H, Delank KS; das TraumaRegister DGU®. Präklinische Einschätzung der Verletzungsart und –schwere beim Schwerverletzten durch den Notarzt: Eine Auswertung des TraumaRegister DGU®. *Unfallchirurg* 2017; 120: 409-416.
- Esmer E, Esmer EM, Derst P, Schulz M, Siekmann H, Delank KS und das TraumaRegister DGU. Einfluss der externen Beckenstabilisierung bei hämodynamisch instabilen Beckenfrakturen. *Unfallchirurg* 2017; 120: 312-319.
- Gombert A, Barbati ME, Storck M, Kotelis D, Keschenau P, Pape HC, Andruszkow H, Lefering R, Hildebrand F, Greiner A, Jacobs MJ, Grommes J. Treatment of blunt thoracic aortic injury in Germany- Assessment of the TraumaRegister DGU®. *PLoS One* 2017; 12: e0171837.
- Helfen T, Lefering R, Moritz M, Böcker W, Grote S, Traumaregister DGU. Charakterisierung des schwer verletzten Fahrradfahrers: Eine Auswertung der Hauptverletzungen und Behandlungsschwerpunkte von 2817 Patienten. *Unfallchirurg* 2017; 120: 403-408.

- Hoffmann M, Czorlich P, Lehmann W, Spiro AS, Rueger JM, Lefering R, TraumaRegister DGU of the German Trauma Society (DGU). The impact of prehospital intubation with and without sedation on outcome in trauma patients with a GCS of 8 or less. *J Neurosurg Anesthesiol.* 2017; 29: 161-167.
- Hoffmann M, Lehmann W, Schroeder M, Cramer C, Grossterlinden LG, Rueger JM, Lefering R, Trauma-Register DGU® of the German Trauma Society. Prospective evaluation of the Eppendorf-Cologne-Scale. *Eur J Emerg Med.* 2017; 24: 120-125.
- Horst K, Andruszkow H, Weber CD, Pishnamaz M, Herren C, Zhi Q, Knobe M, Lefering R, Hildebrand F, Pape HC. Thoracic trauma now and then: A 10 years experience from 16,773 severely injured patients. *PLoS One* 2017; 12: e0186712.
- Lang P, Kulla M, Kerwagen F, Lefering R, Friemert B, Palm HG; TraumaRegister DGU. The role of whole-body computed tomography in the diagnosis of thoracic injuries in severely injured patients - a retrospective multi-centre study based on the trauma registry of the German trauma society (TraumaRegister DGU®). *Scand J Trauma Resusc Emerg Med.* 2017; 25: 82.
- Lefering R, Mahlke L, Franz D. The cost estimator in the TraumaRegister DGU. *Unfallchirurg* 2017; 120: 1065-1070.
- Lefering R, Nienaber U, Paffrath T. Was ist ein Schwerverletzter? Differenzierte Betrachtung der Fall-schwere eines Traumapatienten. *Unfallchirurg* 2017; 120: 898-901.
- Schulz-Drost S, Krinner S, Langenbach A, Oppel P, Lefering R, Taylor D, Hennig FF, Mauerer A, TraumaRegister DGU. Concomitant Sternal Fracture in Flail Chest: An Analysis of 21,741 Poly-trauma Patients from the TraumaRegister DGU®. *Thorac Cardiovasc Surg.* 2017; 65: 551-559.
- Tonglet M, Lefering R, Minon JM, Ghuyssen A, D'Orio V, Hildebrand F, Pape HC, Horst K. Prehospital identification of trauma patients requiring transfusion: results of a retrospective study evaluating the use of the trauma induced coagulopathy clinical score (TICCS) in 33,385 patients from the TraumaRegister DGU®. *Acta Chir Belg.* 2017; 117: 385-390.
- Weber CD, Nguyen AR, Lefering R, Hofman M, Hildebrand F, Pape HC. Blunt injuries related to equestrian sports: results from an international prospective trauma database analysis. *Int Orthop.* 2017; 41: 2105-2112.

2016:

- Almahmoud K, Teuben M, Andruszkow H, Horst K, Lefering R, Hildebrand F, Pape HC, Pfeifer R. Trends in intubation rates and durations in ventilated severely injured trauma patients: an analysis from the TraumaRegister DGU®. *Patient Saf Surg.* 2016; 10:24.
- Andruszkow H, Schweigkofler U, Lefering R, Frey M, Horst K, Pfeifer R, Beckers SK, Pape HC, Hildebrand F. Impact of Helicopter Emergency Medical Service in Traumatized Patients: Which Patient Benefits Most? *PLoS One* 2016; 11: e0146897.
- Böhmer A, Poels M, Kleinbrahm K, Lefering R, Paffrath T, Bouillon B, Defosse JM, Gerbergshagen MU, Wappler F, Joppich R. Change of initial and ICU treatment over time in trauma patients. An analysis from the TraumaRegister DGU®. *Langenbeck's Arch. Surg.* 2016; 401: 531-540.
- Bouillon B, Lefering R, Paffrath T, Sturm J, Hoffmann R. Versorgung Schwerverletzter in Deutschland – Einfluss des TraumaRegister DGU®. *Unfallchirurg* 2016; 119:469-474.

- Brinck T, Handolin L, Lefering R. The effect of evolving fluid resuscitation on the outcome of severely injured patients: an 8-year experience at a tertiary trauma center. *Scand J Surg* 2016; 105: 109-116.
- Brinck T, Raj R, Skrifvars MB, Kivisaari R, Siironen J, Lefering R, Handolin L. Unconscious trauma patients: outcome differences between southern Finland and Germany-lesson learned from trauma-registry comparisons. *Eur J Trauma Emerg Surg* 2016; 42: 445-451.
- Debus F, Lefering R, Lang N, Oberkircher L, Bockmann B, Ruchholtz S, Kühne CA, The TraumaRegister Dgu. Which factors influence the need for inpatient rehabilitation after severe trauma? *Injury* 2016; 47: 2683-2687.
- Debus F, Lefering R, Lechler P, Schwarting T, Bockmann B, Strasser E, Mand C, Ruchholtz S, Frink M, TraumaRegister DGU. Association of an In-House Blood Bank with Therapy and Outcome in Severely Injured Patients: An Analysis of 18,573 Patients from the TraumaRegister DGU®. *PLoS One* 2016; 11: e0148736.
- Driessen A, Fröhlich M, Schäfer N, Mutschler M, Defosse JM, Brockamp T, Bouillon B, Stürmer EK, Lefering R, Maegele M and the TraumaRegister DGU. Prehospital volume resuscitation – Did evidence defeat the crystalloid dogma? An analysis of the TraumaRegister DGU® 2002–2012. *Scand J Trauma Resusc Emerg Med*. 2016; 24: 42.
- Esmer E, Delank KS, Siekmann H, Schulz M, Derst P und das TraumaRegister DGU. Gesichtsverletzungen bei Polytrauma: Mit welchen Verletzungen ist zu rechnen? Eine retrospektive Auswertung aus dem TraumaRegister DGU®. *Notfall Rettungsmed* 2016; 19:92-98.
- Fröhlich M, Driessen A, Böhmer, Nienaber U, Igressa A, Probst C, Bouillon B, Maegele M, Mutschler M and the TraumaRegister DGU. Is the shock index based classification of hypovolemic shock applicable in multiple injured patients with severe traumatic brain injury? - an analysis of the TraumaRegister DGU®. *Scand J Trauma Resusc Emerg Med*. 2016; 24: 148.
- Hegele A, Lefering R, Hack J, Ruchholtz S, Hofmann R, Kühne CA. Operative interventions of urologic traumata in severe injured patients in the acute phase. *Urologe A*. 2016; 55: 506-513.
- Heuer M, Hussmann B, Lefering R, Kaiser GM, Lendemans S and TraumaRegister DGU. Abdominal upper Gi injury in 416 polytraumatized patients. *J Clin Gastroenterol Treat* 2016; 2:027.
- Hilbert-Carius P, Hofmann GO, Lefering R, Stuttmann R, Struck MF; German TraumaRegister DGU®. Clinical presentation and blood gas analysis of multiple trauma patients for prediction of standard coagulation parameters at emergency department arrival. *Anaesthesist* 2016; 65: 274-280.
- Huber S, zein M, von Matthey F, Hanschen M, Seidl F, Kirchhoff C, Biberthaler P, Lefering R, Huber-Wagner S and and the TraumaRegister DGU. Effect of private versus emergency medical systems transportation in trauma patients in a mostly physician based system- a retrospective multicenter study based on the TraumaRegister DGU. *Scand J Trauma Resusc Emerg Med* 2016; 24: 60.
- Kulla M, Maier J, Bieler D, Lefering R, Hentsch S, Lampl L, Helm M. Zivile Explosionstraumata - ein unterschätztes Problem? Ergebnisse einer retrospektiven Analyse aus dem TraumaRegister DGU®. *Unfallchirurg* 2016; 119: 843-853.
- Lech L, Jerkku T, Kanz KG, Wierer M, Mutschler W, Koeppel TA, Lefering R, Banafsche R. Bedeutung des Gefäßtraumas für die Schwerverletztenversorgung - Einfluss auf Verlauf und Mortalität. *Zentralbl. Chir*. 2016; 141: 526-532.

- Lefering R. Using data from registries like the TraumaRegister DGU® for effectiveness evaluations. *Z Evid Fortbild Qual Gesundhwes.* 2016; 112 Suppl 1: 11-15.
- Lustenberger T, Walcher F, Lefering R, Schweigkofler U, Wyen H, Marzi I, Wutzler S and the TraumaRegister DGU®. The Reliability of the Pre-hospital Physical Examination of the Pelvis: A Retrospective, Multicenter Study. *World J Surg.* 2016; 40: 3073-3079.
- Schulz-Drost S, Oppel P, Grupp S, Krinner S, Langenbach A, Lefering R, Mauerer A. Knöcherne Verletzung der Brustwand beim Polytrauma: Inzidenz, Begleitverletzungen, Verlauf und Outcome. *Unfallchirurg* 2016; 119: 1023-1030. *
- Wafaisade A, Lefering R, Bouillon B, Böhmer AB, Gäßler M, Ruppert M. Prehospital administration of tranexamic acid in trauma patients. *Crit Care* 2016; 20: 143.
- Weber CD, Horst K, Lefering R, Hofman M, Dienstknecht T, Pape HC, FACS, TraumaRegister DGU. Major trauma in winter sports: an international trauma database analysis. *Eur J Trauma Emerg Surg* 2016; 42: 741-747.
- Weber CD, Lefering R, Dienstknecht T, Kobbe P, Sellei RM, Hildebrand F, Pape HC, TraumaRegister DGU. Classification of soft-tissue injuries in open femur fractures: Relevant for systemic complications? *J Trauma Acute Care Surg.* 2016; 81: 824-833.
- Weuster M, Brück A, Lippross S, Menzdorf L, Fitschen-Oestern S, Behrendt P, Iden T, Höcker J, Lefering R, Seekamp A, Klüter T, TraumaRegister DGU. Epidemiology of accidental hypothermia in polytrauma patients: An analysis of 15,230 patients of the TraumaRegister DGU. *J Trauma Acute Care Surg.* 2016; 81: 905-912.
- Weuster M, Klüter T, Hofgaertner C, Behrendt P, Menzdorf L, Lefering R, Fitschen-Oestern S, Seekamp A, Lippross S, Trauma Register DGU. Epidemiology of cervical spine lesions in the multiply injured patient – recent data of the Traumaregister DGU®. *World J Trauma Critical Care Med* 2016; 4: 10-23.
- Zwingmann J, Lefering R, Feucht M, Südkamp NP, Strohm PC, Hammer T. Outcome and predictors for successful resuscitation in the emergency room of adult patients in traumatic cardiorespiratory arrest. *Crit Care* 2016; 20: 282.
- 2015:**
- Brinck T, Handolin L, Paffrath T, Lefering R. Trauma registry comparison: six-year results in trauma care in Southern Finland and Germany. *Eur J Trauma Emerg Surg* 2015; 41: 509-516.
- Burkhardt M, Nienaber U, Krause J, Pizanis A, Moersdorf P, Culemann U, Aghayev E, Paffrath T, Pohlemann T, Holstein JH, Beckenregister DGU, TraumaRegister DGU. Das komplexe Beckentrauma. Matching des Beckenregisters DGU mit dem TraumaRegister DGU®. *Unfallchirurg* 2015; 118: 957-962.
- Debus F, Lefering R, Frink M, Kühne C, Mand C, Ruchholtz R. Das Polytrauma von Kindern und Jugendlichen. *Unfallchirurg* 2015; 118: 432-38.
- Debus F, Lefering R, Frink M, Kühne CA, Mand C, Bücking B, Ruchholtz S, and the TraumaRegister DGU. Anzahl der Schwerverletzten in Deutschland — eine retrospektive Analyse aus dem TraumaRegister der Deutschen Gesellschaft für Unfallchirurgie (DGU). *Dtsch Arztebl* 2015; 112: 823–829. – **siehe auch Erratum** in: *Dtsch Arztebl* 2016; 113: 38.

- Debus F, Lefering R, Frink M, Kühne CA, Mand C, Bücking B, Ruchholtz S. Numbers of Severely Injured Patients in Germany. *Dtsch Arztebl Int.* 2015; 112: 823-829. – **siehe auch Erratum** in: *Dtsch Arztebl* 2016; 113: 38.
- Delhey P, Huber S, Hanschen M, Häberle S, Trentzsch H, Deiler S, van Griensven M, Biberthaler P, Lefering R, Huber-Wagner S, TraumaRegister DGU. Significance of traumatic macroamputation in severely injured patients - an analysis of the TraumaRegister DGU®. *Shock* 2015; 43: 233-237. *
- Hanschen M, Kanz KG, Kirchhoff C, Khalil PN, Wierer M, van Griensven M, Laugwitz KL, Biberthaler P, Lefering R, Huber-Wagner S and the TraumaRegister DGU. Blunt cardiac injury in the severely injured - A retrospective multicentre study. *PLOS ONE* 2015; 10: e0131362.
- Heuer M, Hussmann B, Lefering R, Kaiser GM, Eicker C, Guckelberger O, Lendemans S, TraumaRegister DGU. Prehospital fluid management of abdominal organ trauma patients: a matched pair analysis. *Langenbecks Arch Surg.* 2015; 400: 371-379.
- Hilbert P, Hoffmann GO, Lefering R, Struck MF. Schockraumhämoglobin - Prädiktor für eine Gerinnungsstörung beim Traumapatienten. *Unfallchirurg* 2015; 118: 601-606.
- Hilbert-Carius P, Hofmann GO, Lefering R, Stuttmann R, Bucher M, Goebel P, Gronwald GH. Whole-body-CT in severely injured children. Results of retrospective, multicenter study with patients from the TraumaRegister DGU®. *Klin Padiatr.* 2015; 227: 206-212.
- Hildebrand F, Lefering R, Andruszkow H, Zelle BA, Barkatali BM, Pape HC. Development of a scoring system based on conventional parameters to assess polytrauma patients: PolyTrauma Grading Score (PTGS). *Injury* 2015; 46 Suppl 4: 93-98.
- Horst K, Hildebrand F, Kobbe P, Pfeifer R, Lichte P, Andruszkow H, Lefering R, Pape HC. Detecting severe injuries of the upper body in multiple trauma patients. *J Surg Research* 2015; 199: 629-634.
- Hussmann B, Heuer M, Lefering R, Touma A, Schoeneberg C, Keitel J, Lendemans S. Prehospital Volume Therapy as an Independent Risk Factor after Trauma. *BioMed Research International* 2015; 2015: 354367.
- Lichte P, Kobbe P, Almahmoud K, Pfeifer R, Andruszkow H, Hildebrand F, Lefering R, Pape HC, Trauma Register DGU. Post-traumatic thrombo-embolic complications in polytrauma patients. *Int Orthop* 2015; 39: 947-954.
- Lichte P, Andruszkow H, Kappe M, Horst K, Pishnamaz M, Hildebrand F, Lefering R, Pape HC, Kobbe P; TraumaRegister DGU. Increased in-hospital mortality following severe head injury in young children: results from a nationwide trauma registry. *Eur J Med Res.* 2015; 20: 65.
- Raj R, Brinck T, Skrifvars MB, Kivisaari R, Siironen J, Lefering R, Handolin L. Validation of the revised injury severity classification score in patients with moderate-to-severe traumatic brain injury. *Injury* 2015; 46: 86-93.
- Reith G, Lefering R, Wafaisade A, Hensel KO, Paffrath T, Bouillon B, Probst C; TraumaRegister DGU. Injury pattern, outcome and characteristics of severely injured pedestrian. *Scand J Trauma Resusc Emerg Med* 2015; 23: 56.
- Schweigkofler U, Reimertz C, Lefering R, Hoffmann R, TraumaRegister DGU. Bedeutung der Luftrettung für die Schwerverletztenversorgung. *Unfallchirurg* 2015; 118: 240-244.
- Stephan K, Huber S, Häberle S, Kanz KG, Bühren V, van Griensven M, Meyer B, Biberthaler P, Lefering R, Huber-Wagner S; TraumaRegister DGU. Spinal cord injury-incidence, prognosis, and outcome: an analysis of the TraumaRegister DGU. *Spine J.* 2015; 15: 1994-2001.

- Topp T, Lefering R, Lopez CL, Ruchholtz S, Ertel W, Kühne CA. Radiologic diagnostic procedures in severely injured patients - is only whole-body multislice computed tomography the answer? *Int J Emerg Med* 2015; 8: 3.
- Trentzsch H, Lefering R, Nienaber U, Kraft R, Faist E, Piltz S, TraumaRegister DGU. The role of biological sex in severely traumatized patients on outcomes: A Matched-pair analysis. *Ann Surg* 2015; 261: 774-780.
- Wafaisade A, Paffrath A, Lefering R, Ludwig C, Fröhlich M, Mutschler M, Banerjee M, Bouillon B, Probst C and the Committee on Emergency Medicine, Intensive Care and Trauma Management of the German Trauma Society (Section NIS). Patterns of early resuscitation associated with mortality after penetrating injuries. *Br J Surg* 2015; 102: 1220-1228.
- Wutzler S, Lefering R, Wafaisade A, Maegele M, Walcher F, Wyen H, Marzi I, Laurer H, TraumaRegister DGU. Aggressive operative treatment of isolated blunt traumatic brain injury in the elderly is associated with favourable outcome. *Injury* 2015; 46: 1706-1711.
- Zacher M, Kanz KG, Hanschen M, Häberle S, van Griensven M, Lefering R, Bühren V, Biberthaler P, Huber-Wagner S, TraumaRegister DGU. Association between volume of severely injured patients and mortality in German trauma hospitals. *Br J Surg* 2015; 102: 1213-1219.
- Zwingmann J, Lefering R, TraumaRegister DGU, Bayer J, Reising K, Südkamp NP, Strohm PC. Outcome and risk factors in children after traumatic cardiac arrest and successful resuscitation. *Resuscitation* 2015; 96: 59-65.

2014:

- Andruszkow H, Hildebrand F, Lefering R, Pape HC, Hoffmann R, Schweigkofler U. 10 years of helicopter emergency medical services in Germany: Do we still need the helicopter rescue in multiple traumatized patients? *Injury* 2014; 45 Suppl 3: S53-S58.
- Bieler D, Franke AF, Hentsch S, Paffrath T, Willms A, Lefering R, Kollig EW, TraumaRegister DGU. Gunshot and stab wounds in Germany - Epidemiology and outcome: Analysis from the TraumaRegister DGU®. *Unfallchirurg* 2014; 117: 995-1004.
- Bliemel C, Lefering R, Buecking B, Frink M, Struwer J, Krueger A, Ruchholtz S, Frangen TM. Early or delayed stabilization in severely injured patients with spinal fractures? Current surgical objectivity according to the Trauma Registry of DGU: Treatment of spine injuries in polytrauma patients. *J Trauma Acute Care Surg* 2014; 76: 366-73.
- Böhmer AB, Just KS, Lefering R, Paffrath T, Bouillon B, Joppich R, Wappler F, Gerbershagen MU. Factors influencing lengths of stay in the intensive care unit for surviving trauma patients: a retrospective analysis of 30,157 cases. *Crit Care* 2014; 18: R143.
- Burkhardt M, Holstein JH, Mörsdorf P, Kristen A, Lefering R, Pohlemann T, Pizanis A and the TraumaRegister DGU. Proper coding of the Abbreviated Injury Scale: Can clinical parameters help as surrogates in estimating the blood loss? *Eur J Trauma Emerg Surg* 2014; 40: 473-479.
- Burkhardt M, Kristen A, Culemann U, Koehler D, Histing T, Holstein JH, Pizanis A, Pohlemann T, TraumaRegister DGU, German Pelvic Injury Register. Pelvic fracture in multiple trauma: Are we still up-to-date with massive fluid resuscitation? *Injury* 2014; 45 Suppl 3: S70-S75.

- Fröhlich M, Lefering R, Probst C, Paffrath T, Schneider MM, Maegele M, Sakka SG, Bouillon B, Wafaisade A and the TraumaRegister DGU®. Epidemiology and risk factors of multiple organ failure (MOF) after multiple trauma: An analysis of 31,154 patients from the TraumaRegister DGU®. *J Trauma Acute Care Surg* 2014; 76:921-927.
- Heuer M, Hussmann B, Kaiser G, Nast-Kolb D, Ruchholtz S, Lefering R, Paul A, Taeger, G, Lendemans S. Inzidenz von Hohlorganverletzungen nach Trauma: Behandlung, Verlauf und Outcome - eine organspezifische Auswertung von 1127 Patienten des Traumaregisters der DGU. *Zentralbl Chir* 2014; 139: 445-451 *
- Huber S, Biberthaler P, Delhey P, Trentzsch H, Winter H, van Griensven M, Lefering R, Huber-Wagner S. Predictors of poor outcomes after significant chest trauma in multiply injured patients: a retrospective analysis from the German Trauma Registry (Trauma Register DGU®). *Scand J Trauma Resusc* 2014; 22: 52.
- Huber-Wagner S, Mand C, Ruchholtz S, Kühne C, Holzapfel K, Kanz KG, van Griensven M, Biberthaler A, Lefering R, TraumaRegister DGU. Effect of the localisation of the CT scanner during trauma resuscitation on survival – A retrospective, multicentre study. *Injury* 2014; 45 Suppl 3: S76-S82.
- Hussmann B, Lendemans S. Pre-hospital and early in-hospital management of severe injuries: Changes and trends. *Injury* 2014; 45 Suppl 3: S39-S42 *
- Kaske S, Lefering R, Trentzsch H, Driessen A, Bouillon B, Maegele M, Probst C. Quality of life two years after severe trauma: A single centre evaluation. *Injury* 2014; 45 Suppl 3: S100-S105 *
- Leenen M, Scholz A, Lefering R, Flohé S, TraumaRegister DGU. Limited volume resuscitation in hypotensive elderly multiple trauma is safe and prevents early clinical dilutive coagulopathy – a matched pair analysis from TraumaRegister DGU®. *Injury* 2014; 45 Suppl 3: S59-S63 *
- Lefering R. Strategies for comparative analyses in registry data. *Injury* 2014; 45 Suppl 3: S83-S88 *
- Lefering R, Huber-Wagner S, Nienaber U, Maegele M, Bouillon B. Update of the trauma risk adjustment model of the TraumaRegister DGU: the revised injury severity classification, version II. *Crit Care* 2014; 18: 476 *
- Lefering R, Paffrath T, Nienaber U. Das TraumaRegister DGU® als Datenquelle für das Monitoring schwerer Unfallverletzungen. *Bundesgesundheitsblatt - Gesundheitsforschung – Gesundheitsschutz* 2014; 57: 660-665.
- Leopold E, Trentzsch H, Nienaber U, Huber-Wagner S, Lefering R, Matthes G, Wöfl C, Paffrath T, Flohé S. Gemeinsam Gutes bewegen: 20 Jahre TraumaRegister DGU®. *Orthopädie und Unfallchirurgie - Mitteilungen und Nachrichten* 2014; Februar: 95-97.
- Lichte P, Weber C, Sellei RM, Hildebrand F, Lefering R, Pape HC, Kobbe P, TraumaRegister DGU. Are bilateral tibial shaft fractures associated with an increased risk for adverse outcome? *Injury* 2014; 45: 1985-1989 *
- Mutschler M, Nienaber U, Münzberg M, Fabian T, Paffrath T, Wöfl C, Bouillon B, Maegele M. Assessment of hypovolaemic shock at scene: is the PHTLS classification of hypovolaemic shock really valid? *Emerg Med J.* 2014; 31:35-40.
- Mutschler M, Nienaber U, Wafaisade A, Brockamp T, Probst C, Paffrath T, Bouillon B, Maegele M and the TraumaRegister DGU. The impact of severe traumatic brain injury on a novel base deficit-based classification of hypovolemic shock. *Scand J Trauma Resusc Emerg Med.* 2014; 22.

- Mutschler M, Paffrath T, Wöfl C, Probst C, Nienaber U, Schnipper IB, Bouillon B, Maegele M. The ATLS® classification of hypovolemic shock: A well established teaching tool on the edge? *Injury* 2014; 45 Suppl 3: S35-S38.
- Paffrath T, Lefering R, Flohé S, TraumaRegister DGU. How to define severely injured patients? – An Injury Severity Score (ISS) based approach alone is not sufficient. *Injury* 2014; 45 Suppl 3: S64-S69.
- Pape HC, Lefering R, Butcher N, Peitzman A, Leenen L, Marzi I, Lichte P, Josten C, Bouillon B, Schmucker U, Stahel PF, Giannoudis P, Balogh ZJ. The definition of polytrauma revisited: An international consensus process and proposal of the new 'Berlin definition'. *J Trauma Acute Care Surg* 2014; 77: 780-786 *
- Pape-Köhler CIA, Simanski C, Nienaber U, Lefering R. External factors and the incidence of severe trauma: time, date, season and moon. *Injury* 2014; 45 Suppl 3: S93-S99.
- Ruchholtz S, Lewan U, Debus F, Mand C, Siebert H, Kühne C. The TraumaNetwork DGU®: Optimizing Patient Flow and Management. *Injury* 2014; 45 Suppl 3: S89-S92 *
- Ruchholtz S, Lefering R, Lewan U, Debus F, Mand C, Siebert H, Kühne CA. Implementation of a nationwide trauma network for the care of severely injured patients. *J Trauma Acute Care Surg* 2014; 76: 1456-1461.
- Steinhausen E, Lefering R, Tjardes T, Neugebauer EA, Bouillon B, Rixen D, Committee on Emergency Medicine, Intensive and Trauma Care (Sektion NIS) of the German Society for Trauma Surgery (DGU). A risk-adapted approach is beneficial in the management of bilateral femoral shaft fractures in multiple trauma patients: an analysis based on the trauma registry of the German Trauma Society. *J Trauma Acute Care Surg* 2014; 76: 1288-93.
- Timm A, Maegele M, Lefering R, Wendt K, Wyen H, TraumaRegister DGU. Prehospital rescue times and actions in severe trauma: A comparison between two trauma systems: Germany and the Netherlands. *Injury* 2014; 45 Suppl 3: S43-S52.
- TraumaRegister DGU. 20 years of trauma documentation in Germany – Actual trends and developments. *Injury* 2014; 45 Suppl 3: S14-S19.
- TraumaRegister DGU. 20 years TraumaRegister DGU®: Development, aims and structure. *Injury* 2014; 45 Suppl 3: S6-S13.
- Trentzsch H, Nienaber U, Behnke M, Lefering R, Plitz S. Female sex protects from organ failure and sepsis in the sequel of major traumatic haemorrhage. *Injury* 2014; 45 Suppl 3: S20-S28.
- Wafaisade A, Lefering R, Bouillon B. 20 Jahre TraumaRegister DGU® - was können wir für die Präklinik daraus lernen? *Der Notfallsanitäter* 2014; 2: 18-19.
- Wutzler S, Maegele M, Wafaisade A, Wyen H, Marzi I, Lefering R and TraumaRegister DGU. Risk stratification in trauma and hemorrhagic shock: Scoring systems derived from the TraumaRegister DGU®. *Injury* 2014; 45 Suppl 3: S29-S34.

2013:

- Andruszkow H, Lefering R, Frink M, Mommsen P, Zeckey C, Rahe K, Krettek C, Hildebrand F. Survival benefit of helicopter emergency medical services compared to ground emergency medical services in traumatized patients. *Crit Care* 2013; 17:R124 *

- Banerjee M, Wafaisade A, Shafizaheh S, Paffrath T, Lefering R, Bouillon B and TraumaRegister DGU. Epidemiology of extremity injuries in multiple trauma patients. *Injury* 2013; 44(8): 1015-1021 *
- Brockamp T, Maegele M, Gaarder C, Goslings JC, Cohen MJ, Lefering R, Joosse P, Naess PA, Skaga NO, Groat T, Eaglestone S, Borgman MA, Spinella PC, Schreiber MA, Brohi K. Comparison of the predictive performance of the BIG, TRISS and PS09 score in an adult trauma population derived from multiple international trauma registries. *Crit Care* 2013; 17:R134 *
- Burkhardt M, Nienaber U, Holstein JH, Culemann U, Bouillon B, Aghayev E, Paffrath T, Maegele M, Pohlemann T, Lefering R, TraumaRegister DGU and German Pelvic Injury Register DGU. Trauma Registry Record Linkage: Methodological approach to benefit from complementary data using the example of the German Pelvic Injury Register and the TraumaRegister DGU. *BMC Medical Research Methodology* 2013; 13:30.
- Esmer E, Steinmetz A, Zeh A, Stachow M, Siekmann H, Lefering R, Brinkmann V, Schütte V, Freche S, Delank KS. Intrakranielle Blutung bei Polytrauma und leichtem Schädel-Hirn-Trauma. *Notfall und Rettungsmedizin* 2013, 16: 532-538.
- Franz D, Lefering R, Siebert H, Windolf J, Roeder N, Mahlke L. Die Herausforderung der sachgerechten Vergütung von Schwerverletzten im deutschen DRG-System Ergebnisse einer multizentrischen Analyse. *Gesundheitswesen* 2013; 75:84-93 *
- Geiger EV, Lustenberger T, Wutzler S, Lefering R, Lehnert M, Walcher F, Laurer HL, Marzi I. Predictors of pulmonary failure following severe trauma: a trauma registry-based analysis. *Scand J Trauma Resusc Emerg Med.* 2013; 21:34.
- Helm M, Bitzl A, Klinger S, Lefering R, Lampl L, Kulla M. Das TraumaRegister DGU® als Basis eines medizinischen Qualitätsmanagements. *Unfallchirurg* 2013; 116:624-632. *
- Heuer M, Hussmann B, Kaiser GM, Lefering R, Paul A, Lendemans S and Trauma Registry of DGU. Abdominal vascular trauma in 760 severely injured patients. *Europ. J. Trauma Emerg. Med.* 2013; 39: 47-55 *
- Hilbert P, zur Nieden K, Kaden I, Hofmann GO and Stuttmann R. Early and Rapid Diagnosis with Multislice CT Reduces Lethality in Trauma Patients Requiring Intensive Care: Findings of a Prospective Study. *ISRN Emergency Medicine* 2013; Article ID 458165: 1-8.
- Huber-Wagner S, Biberthaler P, Häberle S, Wierer M, Dobritz M, Rummeny E, van Griensven M, Kanz KG, Lefering R and TraumaRegister DGU. Whole-body CT in haemodynamically unstable severely injured patients - A retrospective, multicentre study. *PLOS ONE* 2013; 8: e68880.
- Hussmann B, Lefering R, Waydhas C, Touma A, Ruchholtz S, Lendemans S and the Trauma Registry of the German Society for Trauma Surgery. Does increased prehospital replacement volume lead to a poor clinical course and an increased mortality? A matched-pair analysis of 1896 patients of the trauma registry of the German Society for Trauma Surgery who were managed by an emergency doctor at the accident site. *Injury* 2013; 44: 611-617.
- Kleber C, Lefering R, Kleber AJ, Buschmann CT, Bail HJ, Schaser KD, Haas NP, DGU TraumaRegister. Rettungszeit und Überleben von Schwerverletzten in Deutschland. *Unfallchirurg* 2013; 116: 345-350.
- Kobbe P, Micansky F, Lichte P, Sellei RM, Pfeifer R, Dombroski D, Lefering R, Pape HC; TraumaRegister DGU. Increased morbidity and mortality after bilateral femoral shaft fractures: Myth or reality in the era of damage control? *Injury* 2013; 44: 221-225.

- Kühne CA, Mand C, Lefering R, Lendemans S, Ruchholtz S. Dringlichkeit neurochirurgischer Interventionen bei schwerem Schädel-Hirn-Trauma. *Unfallchirurg* 2013; 116:39-46 *
- Lefering R, Nienaber U, Paffrath T. TraumaRegister DGU® der Deutschen Gesellschaft für Unfallchirurgie. *Notfall Rettungsmed* 2013; 16:269-273 *
- Lefering R, Zielske D, Bouillon B, Hauser C, Levy H. Lactic acidosis is associated with multi-organ failure and need for ventilator support in patients with severe hemorrhage from trauma. *Europ J Trauma Emerg Med* 2013; 5: 487-493 *
- Mahlke L, Lefering R, Siebert H, Windolf J, Roeder N, Franz D. Abbildung von Schwerverletzten im DRG-System - wird die Schwerverletztenversorgung doch bezahlbar? *Chirurg* 2013; 84: 978-986.
- Mand C, Müller T, Lefering R, Ruchholtz S, Kühne CA. Vergleich der Schwerverletztenversorgung in den neuen und alten deutschen Bundesländern. *Dtsch Arztebl* 2013; 110: 203-210.
- Mand C, Müller T, Lefering R, Ruchholtz S, Kühne CA. A comparison of the treatment of severe injuries between the former East and West German states. *Dtsch Arztebl Int* 2013; 110(12): 203-1203-210.
- Mutschler M, Nienaber U, Münzberg M, Wöfl C, Schöchl H, Paffrath T, Bouillon B, Maegele M. The Shock Index revisited - a fast guide to transfusion requirement? A retrospective analysis on 21,853 patients derived from the TraumaRegister DGU(R). *Crit Care* 2013; 17: R172.
- Mutschler M, Nienaber U, Brockamp T, Wafaisade A, Fabian T, Paffrath T, Bouillon B, Maegele M. Renaissance of base deficit for the initial assessment of trauma patients: A base deficit-based classification for hypovolaemic shock developed on data from 16,305 patients derived from the TraumaRegister DGU®. *Crit Care* 2013; 17: R42.
- Mutschler M, Nienaber U, Brockamp T, Wafaisade A, Peiniger S, Paffrath T, Bouillon B, Maegele M. A critical reappraisal of the ATLS classification of hypovolaemic shock: Does it really reflect clinical reality? *Resuscitation* 2013; 84: 309-313.
- Nau C, Wutzler S, Dörr H, Lehnert M, Lefering R, Laurer H, Wyen H, Marzi I and Trauma Registry of DGU. Liver cirrhosis but not alcohol abuse is associated with impaired outcome in trauma patients - A retrospective, multicenter study. *Injury* 2013; 44: 661-666.
- Pape HC, Lefering R (Editorial). Grading of injury severity - What should be the prerequisites to separate multiply injured patients from those in critical condition and polytrauma? *Injury* 2013; 44:157-158.
- Ruchholtz S, Lefering R, Debus F, Mand C, Kühne C, Siebert H. TraumaNetzwerk DGU® und TraumaRegister DGU®: Erfolge durch Kooperation und Dokumentation. *Chirurg* 2013; 84(9):730-8.
- Trentzsch H, Wöfl C, Matthes G, Paffrath T, Nienaber U, Lefering R, Flohé S. Neues aus der Schwerverletztenversorgung. Bericht vom 2. Jahreskongress der Sektion Notfall-, Intensivmedizin und Schwerverletztenversorgung (Sektion NIS). *Unfallchirurg* 2013; 116:664-668.
- Trentzsch H, Wöfl C, Matthes G, Paffrath T, Lefering R, Flohé S. (Journal Club) Neuigkeiten aus der Polytraumaversorgung: aktuelle Fakten und Entwicklungen. Bericht vom 1. Jahreskongress der Sektion Notfall-, Intensivmedizin und Schwerverletztenversorgung (Sektion NIS). *Unfallchirurg* 2013; 116:1039-1042.
- Topp T, Lefering R, Mueller T, Ruchholtz S, Patzer T, Kühne CA, TraumaRegister DGU. Suizid im Alter – das unterschätzte Risiko. Eine Untersuchung an 1.894 Patienten des TraumaRegister DGU. *Unfallchirurg* 2013; 116: 332-337.

Wafaisade A, Lefering R, Bouillon B, Helm P, Braun M, Paffrath T, Maegele M und das Trauma Register der DGU. Rekombinanter Faktor VIIa in der Hämorrhagiebehandlung des Schwerverletzten - Eine Matched-Pair-Analyse anhand des TraumaRegisters der Deutschen Gesellschaft für Unfallchirurgie. *Unfallchirurg* 2013; 116:524-530.

Wafaisade A, Lefering R, Maegele M, Brockamp T, Mutschler M, Lendemans S, Banerjee M, Bouillon B, Probst C; the Trauma Registry of DGU. Administration of fibrinogen concentrate in exsanguinating trauma patients is associated with improved survival at 6 hours but not at discharge. *J Trauma* 2013; 74: 387-395.

Wyen H, Lefering R, Maegele M, Brockamp T, Wafaisade A, Wutzler S, Walcher F, Marzi I; the TraumaRegister DGU. The golden hour of shock - how time is running out: prehospital time intervals in Germany--a multivariate analysis of 15, 103 patients from the TraumaRegister DGU(R). *Emerg Med J* 2013; 30:1048-55.

2012:

Andruszkow H, Lioudakis E, Lefering R, Krettek C, Hildebrand F, Haasper C; Trauma Registry of DGU. Knee injuries in severe trauma patients: a trauma registry study in 3.458 patients. *J Trauma Manag. Outcomes* 2012; 6(1):7.

Brockamp T, Nienaber U, Mutschler M, Wafaisade A, Peiniger S, Lefering R, Bouillon B, Maegele M. Predicting on-going hemorrhage and transfusion requirement after severe trauma: A validation of six scoring systems and algorithms on the TraumaRegister DGU®. *Crit Care* 2012 16:R129.

Burkhardt M, Nienaber U, Pizanis A, Maegele M, Culemann U, Bouillon B, Flohé S, Pohlemann T, Paffrath T. Acute management and outcome of multiple trauma patients with pelvic disruptions. *Crit Care* 2012, 16:R163 *

Heuer M, Hussmann B, Schenck M, Kaiser GM, Nast-Kolb D, Ruchholtz S, Lefering R, Paul A, Taeger G, Lendemans S und das TraumaRegister DGU. Nierenverletzung und Polytrauma: Outcome, Verlauf und Behandlungsalgorithmus. Eine organspezifische Auswertung von 835 Patienten des TraumaRegisters der DGU. *Unfallchirurg* 2012, 115: 700-707 *

Hoffmann M, Lefering R, Gruber-Rathmann M, Rueger JM, Lehmann W, Trauma Registry of DGU. The impact of BMI on polytrauma outcome. *Injury* 2012; 43(2):184-8.

Hoffmann M, Lefering R, Rueger JM, Kolb JP, Izbicki JR, Ruecker AH, Rupprecht M, Lehmann W and Trauma Registry of DGU. Pupil evaluation in addition to the Glasgow Coma Scale (GCS) components in prediction of traumatic brain injury and mortality. *Br. J. Surg.* 2012; 99 Suppl 1: 122-30.

Hoffmann M, Lehmann W, Rueger JM, Lefering R and Trauma Registry of DGU. Introduction of a novel trauma score. *J Trauma Acute Care Surg* 2012, 73: 1607-13 *

Hussmann B, Lefering R, Kauther MD, Ruchholtz S, Moldzio P, Lendemans S and the Trauma Registry of the German Society for Trauma Surgery. Influence of prehospital volume replacement on outcome in polytraumatized children. *Crit Care* 2012, 16: R201 *

Kulla M, Helm M, Lefering R, Walcher F. Pre-hospital endotracheal intubation and chest tubing does not prolong the overall resuscitation time of severely injured patients. A retrospective, multi centre study of the Trauma Registry of the German Society of Trauma Surgery. *Emerg. Med. J.* 2012; 29(6): 497-501.

- Lefering R, Paffrath T. Versorgungsrealität auf der Basis des TraumaRegister DGU®. *Unfallchirurg* 2012; 115: 30-32 *
- Lefering R, Paffrath T, Bouamra O, Coats TJ, Woodford M, Jenks T, Wafaisade A, Nienaber U, Lecky F. Epidemiology of In-hospital Trauma Deaths. *Europ. J. Trauma Emerg. Surg* 2012; 38: 3-9 *
- Lefering R, Ruchholtz S. Trauma registries in Europe. (Editorial) *Europ J Trauma Emerg Med* 2012; 38: 1-2 *
- Lefering R, Tecic T, Schmidt Y, Pirente N, Bouillon B, Neugebauer E and the POLO Chart Study Group. Quality of Life after multiple trauma: validation and population norm of the Polytrauma Outcome (POLO)-Chart. *Europ J Trauma Emerg Med* 2012; 38:403–415 *
- Maegele M, Brockamp T, Nienaber U, Probst C, Schöchl H, Görlinger K, Spinella, P. Predictive Models and Algorithms for the Need of Transfusion including Massive Transfusion in Severely Injured Patients. *Transfu Med Hemother.* 2012 39(2): 85-97.
- Marzi I, Rose S (Hrsg.) Praxisbuch Polytrauma. Vom Unfall bis zur Rehabilitation. Deutscher Ärzte-Verlag Köln, 2012.
- Peiniger S, Maegele M. Traumaassoziierte Blutung beim Schwerverletzten. Relevanz, Risikostratifizierung und aktuelle Therapieansätze. *Unfallchirurg* 2012; 115: 173-183.
- Peiniger S, Nienaber U, Braun M, Wafaisade A, Borgmann M, Spinella PC, Maegele M. Glasgow Coma Scale as a predictor for hemocoagulative disorders after blunt pediatric traumatic brain injury. *Pediatr Crit Care Med.* 2012 13(4): 455-460.
- Peiniger S, Paffrath T, Mutschler M, Brockamp T, Borgmann M, Spinella PC, Bouillon B, Maegele M; TraumaRegister DGU. The trauma patient in hemorrhagic shock: how is the C-priority addressed between emergency and ICU admission? *Scand J Trauma Resusc Emerg Med.* 2012; 20:78.
- Schneppendahl J, Lefering R, Kühne CA, Ruchholz S, Hakimi M, Witte I, Lögters T, Windolf J, Flohé S, TraumaRegister der DGU. Verlegungsrealität schwerverletzter Patienten in Deutschland. *Unfallchirurg* 2012; 115:717-724.
- Sellmann TN, Miersch D, Kienbaum P, Flohé S, Schneppendahl J, Lefering R und TraumaRegister DGU. Einfluss arterieller Hypertonie bei Traumapatienten mit Schädel-Hirn-Trauma. *Dtsch Arztebl* 2012 109: 849-856 *
- Sellmann TN, Miersch D, Kienbaum P, Flohé S, Schneppendahl J, Lefering R and DGU Trauma Registry. The impact of arterial hypertension on polytrauma and traumatic brain injury. *Dtsch Arztebl Int* 2012; 109:849-856.
- Topp T, Müller T, Kiriazidis I, Lefering R, Ruchholtz S, Trauma Registry of the German Trauma Society, Kühne CA. Multiple blunt trauma after suicidal attempt: an analysis of 4,754 multiple severely injured patients. *Eur J Trauma Emerg Surg* 2012; 38: 19-24.
- Trentzsch H, Huber-Wagner S, Hildebrand F, Kanz KG, Faist E, Piltz S, Lefering R and Trauma Registry of DGU. Hypothermia for prediction of death in severely injured blunt trauma patients. *Shock* 2012, 37: 131-139 *
- Wafaisade A, Lefering R, Maegele M, Lendemans S, Flohé S, Hussmann B, Defosse JM, Probst C, Paffrath T, Bouillon B, Trauma Registry of DGU. Coagulation management of bleeding trauma patients is changing in German trauma centers - an analysis from the Trauma Registry of the German Society for Trauma Surgery. *J Trauma* 2012; 72(4): 936-42.

Walcher F, Kulla M, Klinger S, Röhrig R, Wyen H, Bernhard M, Graeff I, Nienaber U, Petersen P, Schweigkofler U, Marzi I, Lefering R. Standardisierte Dokumentation im Schockraum mit dem Kern-datensatz `Notaufnahme´ der DIVI. *Unfallchirurg* 2012; 115: 457-463.

Wutzler S, Wafaisade A, Maegele M, Laurer H, Geiger E, Walcher F, Barker J, Lefering R, Marzi I and the Trauma Registry of DGU. Lung Organ Failure Score (LOFS): Probability of severe pulmonary organ failure after multiple injuries including chest trauma. *Injury* 2012; 43(9): 1507-1512.

2011:

Borgman MA, Maegele M, Wade CE, Blackbourne LH, Spinella PC. Pediatric Trauma BIG Score: Predicting mortality in children after military and civilian trauma. *Pediatrics* 2011; 127: e892-e897 *

Borgman MA, Spinella PC, Holcomb JB, Blackbourne LH, Wade CE, Lefering R, Bouillon B, Maegele M. The effect of FFP:RBC ratio on morbidity and mortality in trauma patients based on transfusion prediction score. *Vox Sanguinis* 2011, 101: 44-54 *

Gräsner JT, Wnent J, Seewald S, Meybohm P, Fischer M, Paffrath T, Wafaisade A, Bein B, Lefering R. Cardiopulmonary resuscitation traumatic cardiac arrest – there are survivors. An analysis of two national emergency registries. *Crit Care* 2011, 15: R276 *

Grote S, Böcker W, Mutschler W, Bouillon B, Lefering R, Diagnostic value of the Glasgow Coma Scale for traumatic brain injury in 18 002 patients with multiple injuries. *J Neurotrauma* 2011 28: 527-34 *

Hussmann B, Taeger G, Lefering R, Waydhas C, Nast-Kolb D, Ruchholtz S, Lendemans S und das TraumaRegister der DGU. Letalität und Outcome beim Mehrfachverletzten nach schwerem Abdominal- und Beckentrauma - Einfluss der präklinischen Volumengabe. Eine Auswertung von 604 Patienten des TraumaRegisters. *Unfallchirurg* 2011; 114: 705-712.

Hussmann B, Taeger G, Lefering R, Wydhas C, Nast-Kolb D, Ruchholtz S, Lendemans S and DGU Trauma Registry. Influence of pre-hospital fluid resuscitation on patients with multiple injuries in hemorrhagic shock. A matched-pair analysis of 2702 patients from the DGU Trauma Registry. *J. Emergencies Trauma Shock*, 2011, 4: 465-471 *

Hussmann B, Kauther MD, Lefering R, Waydhas C, Taeger G, Ruchholtz S, Wafaisade A, Lendemans S and the Trauma Registry of DGU. Prehospital intubation of the moderately injured patient: a cause of morbidity? A matched-pairs analysis of 1200 patients from the DGU Trauma Registry. *Crit. Care* 2011, 15:R207 *

Maegele M, Lefering R, Wafaisade A, Theodorou P, Wutzler S, Fischer P, Bouillon B, Paffrath T and TraumaRegister DGU. Revalidation and update of the TASH score: a scoring system to predict the probability of massive transfusion as a surrogate for life-threatening haemorrhage after severe injury. *Vox Sanguinis* 2011, 100: 231-238 *

Maegele M, Paffrath T, Bouillon B. Akute trauma-assoziierte Gerinnungsstörung beim Schwerverletzten. *Dtsch Arztebl* 2011; 108(49): 827–35.

Maegele M, Paffrath T, Bouillon B. Acute traumatic coagulopathy in severe injury: incidence, risk stratification, and treatment options. *Dtsch Arztebl Int* 2011; 108:827-835.

Nienaber U, Innerhofer P, Westermann I, Schöch H, Attal R, Breitkopf R, Maegele M. The impact of fresh frozen plasma versus coagulation factor concentrates on morbidity and mortality in trauma-associated haemorrhage and massive transfusion. *Injury* 2011, 42: 697-701 *

Peiniger S, Nienaber U, Lefering R, Braun M, Wafaisade A, Wutzler S, Borgmann M, Spinella PC, Maegele M. Balanced massive transfusion ratios in multiple injured patients with traumatic brain injury. *Crit Care* 2011 15: R68 *

Ringdal KG, Lossius HM, Jones JM, Lauritsen JM, Coats TJ, Palmer CS, Lefering R, Di Bartolomeo S, Dries DJ, Søreide K and The Utstein Trauma Data Collaborators. Collecting core data in severely injured patients using a consensus trauma template: an international multicentre study. *Crit Care* 2011, 15: R237 *

Schöchl H, Nienaber U, Maegele M, Hochleitner G, Primavesi F, Steitz B, Arndt C, Hanke A, Voeckel W, Solomon C. Transfusion in trauma: thromboelastometry-guided coagulation factor concentrate-based therapy versus standard fresh frozen plasma-based therapy. *Crit Care* 2011, 15: R83 *

Wafaisade A, Maegele M, Lefering R, Braun M, Peiniger S, Neugebauer E, Bouillon B and the Trauma-Registry of DGU. High plasma to red blood cell ratios are associated with lower mortality rates in patients receiving multiple transfusion ($4 \leq$ red blood cell units < 10) during acute trauma resuscitation. *J Trauma* 2011, 70: 81-89 *

Wafaisade A, Lefering R, Bouillon B, Sakka SG, Thamm OC, Paffrath T, Neugebauer E, Maegele M and the Trauma Registry of DGU. Epidemiology and risk factors of sepsis after multiple trauma - an analysis on 29,829 patients from the Trauma Registry of the German Trauma Society. *Crit. Care Med.* 2011, 39: 621-628 *

2010:

Brilej D, Vlaović M, Komadina R. Improved Prediction from Revised Injury Severity Classification (RISC) over Trauma and Injury Severity Score (TRISS) in an Independent Evaluation of Major Trauma Patients. *J Int Med Research* 2010, 38: 1530-1538 *

Heuer M, Taeger G, Nast-Kolb D, Kuehne CA, Ruchholtz S, Lefering R, Paul A, Lendemanns S and the Trauma Registry of DGU. No further incidence of sepsis after splenectomy for severe trauma: a multi-institutional experience of the Trauma Registry of the DGU with 1630 patients. *Eur. J. Med. Res.* 2010, 15: 258-265 *

Hilbert P, Lefering R, Stuttmann R. Traumaversorgung in Deutschland. Erhebliche Letalitätsunterschiede zwischen den Zentren. *Dtsch Arztebl* 2010, 107: 463-469 *

Hilbert P, Lefering R, Stuttmann R. Trauma care in Germany. Major differences in case fatality rates between centers. *Dtsch Arztebl Int* 2010, 107: 463-469 *

Hilbert P, Lefering R, Stuttmann R. Unterschiedliche Letalitätsraten an deutschen Traumazentren. Kritische Analyse. *Anästhesist* 2010, 59: 700-708 *

Huber-Wagner S, Stegmaier J, Mathonia P, Paffrath T, Euler E, Mutschler W, Kanz KG, Lefering R on behalf of the Working Group on Polytrauma (NIS) of the German Trauma Society (DGU). The Sequential Trauma Score: A new instrument for the sequential mortality prediction in major trauma. *Eur. J. Med. Res.* 2010; 15: 185-195.

Kanz KG, Paul AO, Lefering R, Kay MV, Kreimeier U, Linsenmaier U, Mutschler W, Huber-Wagner S, for the Trauma Registry of the German Trauma Society. Trauma management incorporating focused assessment with computed tomography in trauma (FACTT) - potential effect on survival. *J Trauma Management Outcome* 2010, 4: 4 *

- Lefering R. Abschätzung der Gesamtzahl Schwerstverletzter in Folge von Straßenverkehrsunfällen in Deutschland. Bundesanstalt für Straßenwesen (BASt) – Unfallforschung Berichte 2010 *
- Lögters T, Lefering R, Schneppendahl J, Alldinger I, Witte I, Windolf J, Flohé S, TraumaRegister DGU. Abbruch der Schockraumdiagnostik und Notfalloperation beim Polytrauma: Inzidenz und klinische Relevanz. Eine Auswertung des TraumaRegisters der DGU. *Unfallchirurg* 2010 113: 832-838 *
- Nijboer JMM, Wullschleger ME, Nielsen SE, McNamee AM, Lefering R, ten Duis HJ, Schuetz MA. A comparison of severely injured trauma patients admitted to level 1 trauma centres in Queensland and Germany. *ANZ J Surg* 2010; 80: 145-150 *
- Paffrath T, Wafaisade A, Lefering R, Simanski C, Bouillon B, Spanholtz T, Wutzler S, Maegele M and Trauma Registry of DGU. Venous thromboembolism after severe trauma: incidence, risk factors and outcome. *Injury* 2010, 41: 97-101 *
- Probst C, Richter M, Lefering R, Frink M, Gaulke R, Krettek C, Hildebrand F. Incidence and significance of injuries to the foot and ankle in polytrauma patients. An analysis of the Trauma Registry of DGU. *Injury* 2010, 41: 210-215 *
- Schöchl H, Nienaber U, Hofer G, Voelckel W, Jambor C, Scharbert G, Kozek-Langenecker S, Solomon C. Goal-directed coagulation management of major trauma patients using thromboelastometry (ROTEM)-guided administration of fibrinogen concentrate and prothrombin complex concentrate. *Crit Care*. 2010; 14: R55.
- Stanworth SJ, Morris TP, Gaarder C, Goslings C, Maegele M, Cohen MJ, König TC, Davenport RA, Pittet JF, Johansson PI, Allard S, Johnson T, Brohi K. Reappraising the concept of massive transfusion in trauma. *Crit. Care* 2010, 14: R239 *
- Wafaisade A, Wutzler S, Lefering R, Tjardes T, Banerjee M, Paffrath T, Bouillon B, Maegele M. Drivers of acute coagulopathy after severe trauma – a multivariate analysis on 1987 patients. *Emergency Med. J.* 2010, 27: 934-939 *
- Wafaisade A, Lefering R, Tjardes T, Wutzler S, Simanski C, Paffrath T, Fischer P, Bouillon B, Maegele M. and TraumaRegistry of DGU. Acute coagulopathy in isolated blunt traumatic brain injury. *Neurocrit. Care* 2010, 12: 211-219 *
- Wutzler S, Westhoff J, Lefering R, Lauerer HL, Wyen H, Marzi I, Sektion NIS der DGU. Zeitintervalle während und nach Schockraumversorgung: Eine Analyse anhand des Traumaregisters der Deutschen Gesellschaft für Unfallchirurgie (DGU). *Unfallchirurg* 2010, 113: 36-43 *
- Wyen H, Jakob H, Wutzler S, Lefering R, Laurer HL, Marzi I, Lehnert M and the Trauma Registry of DGU. Prehospital and early clinical care of infants, children and teenagers compared to an adult cohort - Analysis of 2.961 children in comparison to the 21.435 patients from the Trauma Registry of DGU in a 15 years period. *Europ J Trauma Emerg Med* 2010, 36: 300-307 *

2009:

- Auerbach K, Otte D, Jänsch M, Lefering R. Medizinische Folgen von Straßenverkehrsunfällen: drei Datenquellen, drei Methoden, drei unterschiedliche Ergebnisse? Berichte der Bundesanstalt für Straßenwesen (BASt) 2009 * Download unter www.bast.de
- Heuer M, Taeger G, Kaiser GM, Nast-Kolb D, Kuehne CA, Ruchholtz S, Lefering R, Paul A, Lendemanns S and the Trauma Registry of DGU. Prognostic factors of liver injury in polytraumatic patients. Results from 895 severe abdominal trauma cases. *J. Gastrointestin. Liver Dis.* 2009, 18: 197-203 *

- Huber-Wagner S, Lefering R, Qvick LM, Körner M, Kay MV, Pfeifer KJ, Reiser M, Mutschler W, Kanz KG, and the Working Group on Polytrauma (NIS) of the German Trauma Society (DGU). Effect of whole-body CT during trauma resuscitation on survival: a retrospective, multicentre study. *Lancet* 2009; 373: 1455-1461.
- Huber-Wagner S, Lefering R, Kay MV, Stegmaier J, Khalil PN, Paul AO, Biberthaler P, Mutschler W, Kanz KG, on behalf of the Working Group on Polytrauma (NIS) of the German Trauma Society (DGU). Duration and predictors of emergency surgical operations – basis for medical management of mass casualty incidents. *Eur. J. Med. Res.* 2009; 14: 532-540.
- Laurer HL, Wutzler S, Wyen H, Lefering R, Westhoff J, Lehnert, M, Marzi I und Sektion NIS der DGU. Prä- und frühklinische Versorgungsqualität pädiatrischer Traumapatienten im Schulalter im Vergleich mit dem Erwachsenenkollektiv - Eine Matched-Pair-Analyse an 624 Patienten aus dem Traumaregister der DGU. *Unfallchirurg* 2009 112: 771-777 *
- Lefering R. Development and validation of the Revised Injury Severity Classification (RISC) score for severely injured patients. *Europ. J. Trauma Emerg. Surg.* 2009, 35: 437-447 *
- Lefering R. Entwicklung der Anzahl Schwerstverletzter infolge von Straßenverkehrsunfällen in Deutschland. Berichte der Bundesanstalt für Straßenwesen (BAST) 2009, Heft M 200 *
- Maegele M, Lefering R, Paffrath T, Simanski C, Wutzler S, Bouillon B. Changes in transfusion practice in multiple injury between 1993 and 2006: a retrospective analysis on 5389 patients from the German Trauma Registry. *Transfusion Medicine* 2009, 19: 117-124 *
- Maegele M. Frequency, risk stratification and therapeutic management of acute post-traumatic coagulopathy. *Vox Sanguinis* 2009, 97: 39-49 *
- Raum M, Nijsten MWN, Vogelzang M, Schuring F, Lefering R, Bouillon B, Rixen D, Neugebauer EAM, ten Duis HJ and the Polytrauma Study Group of the German Trauma Society. Emergency Trauma Score: An instrument for early estimation of trauma severity. *Crit. Care Med.* 2009; 37: 1972-1977.
- Ruchholtz S, Lefering R, Paffrath T, Siebert H Sektion Notfall, Intensivmedizin und Schwerverletztenversorgung. Das TraumaRegister: Qualitätsmanagement in der Schwerverletztenversorgung. *Berlin Medical* 2009, 5: 4-7
- Wutzler S, Maegele M; Marzi I, Spanholtz T, Wafaisade A, Lefering R. and Trauma Registry of DGU. Association of preexisting medical conditions with in-hospital mortality in multiple-trauma patients. *J. Am. Coll. Surgeons* 2009, 209: 75-81 *

2008:

- Lefering R, Paffrath T, Linker R, Bouillon B, Neugebauer E and German Society for Trauma Surgery. Head injury and outcome - What influence do concomitant injuries have? *J. Trauma* 2008, 65: 1036-1044 *
- Lefering R. Das schwere Trauma. Qualitative und quantitative Herausforderung für das Rettungssystem. *Notfall- u. Rettungsmed.* 2008, 11: 373-376 *
- Lendemans S, Heuer M, Nast-Kolb D, Kühne CA, Dammann M, Lefering R, Flohé S, Ruchholtz S, Tagger G. Bedeutung des Lebertraumas für die Inzidenz von Sepsis, Multiorganversagen und Letalität bei Schwerstverletzten. Eine Organspezifische Auswertung von 24.771 Patienten des Traumaregisters der DGU. *Unfallchirurg* 2008, 111: 232-239 *

- Maegele M, Lefering R, Paffrath T, Tjardes T, Simanski C, Bouillon B and Working Group on Polytrauma of DGU. Red blood cell to plasma ratios transfused during massive transfusion are associated with mortality in severe multiply injury: a retrospective analysis from the Trauma Registry of the Deutsche Gesellschaft für Unfallchirurgie. *Vox Sanguinis* 2008, 95: 112-119 *
- Oestern HJ (Hrsg.) Das Polytrauma. Urban & Fischer, München, 2008 (u.a. mit Beiträgen von Bouillon, Grotz, Lefering, Neugebauer, Oestern und Seekamp)
- Probst C, Richter M, Haasper T, Lefering R, Otte D, Oestern HJ, Krettek C, Hübner T und das Trauma-register der DGU. Trauma- und Unfalldokumentation in Deutschland. Eine Standortbestimmung im europäischen Vergleich. *Chirurg* 2008, 79: 650-656 *
- Ringdal KG, Coats TJ, Lefering R, di Bartolomeo S, Steen PA, Røise O, Handolin L, Lossius HM and Utstein TCD expert panel. The Utstein template for uniform reporting of data following major trauma: A joint revision by SCANTEM, TARN, DGU-TR and RITG. *Scand J Trauma Resusc Emerg Med.* 2008, 16: 7.
- Ruchholtz S, Lefering R, Paffrath T, Oestern HJ, Neugebauer E, Nast-Kolb D, Pape HC, Bouillon B. Rückgang der Traumaletalität. Ergebnisse des Traumaregisters der Deutschen Gesellschaft für Unfallchirurgie. *Dtsch Arztebl* 2008, 105: 225-231 *
- Ruchholtz S, Lefering R, Paffrath T, Oestern HJ, Neugebauer E, Nast-Kolb D, Pape HC, Bouillon B. Reduction in mortality of severely injured patients in Germany. *Dtsch Arztebl Int* 2008, 105: 225-231 *
- Wutzler S, Lefering R, Laurer HL, Walcher F, Wyen H, Marzi I und Sektion NIS der DGU. Veränderungen in der Alterstraumatologie. Eine Analyse an 14.869 Patienten aus dem deutschen Traumaregister. *Unfallchirurg* 2008, 111: 592-598 *

2007:

- Flohé S, Buschmann C, Nabring J, Merguet P, Luetkes P, Lefering R, Nast-Kolb D, Ruchholtz S. Polytraumadefinition im G-DRG-System 2006. Bis zu 30% „Fehlgruppierungen“. *Chirurg* 2007, 110: 651-658 *
- Frink M, Probst C, Hildebrand F, Richter M, Hausmanninger C, Wiese B, Krettek C, Pape HC und die AG Polytrauma der DGU. Einfluss des Transportmittels auf die Letalität bei polytraumatisierten Patienten. Eine Analyse anhand des Deutschen Traumaregisters. *Unfallchirurg* 2007, 110: 334-340 *
- Helm M, Kulla M, Birkenmaier H, Lefering R, Lampl L. Traumamanagement unter militärischen Einsatzbedingungen: Daten eines Feldlazarets in Afghanistan und die des nationalen Traumaregisters im Vergleich. *Chirurg* 2007; 78: 1130-1138 *
- Huber-Wagner S, Lefering R, Qvick M, Kay MV, Paffrath T, Mutschler W, Kanz KG; Working Group on Polytrauma of the German Trauma Society DGU. Outcome in 757 severely injured patients with traumatic cardiorespiratory arrest. *Resuscitation* 2007; 75: 276-85 *
- Huber-Wagner S, Qvick M, Mussak T, Euler E, Kay MV, Mutschler W, Kanz KG and Working Group on Polytrauma of the German Trauma Society (DGU). Massive blood transfusion and Outcome in 1062 polytrauma patients: a prospective study based on the Trauma Registry of the German Trauma Society. *Vox Sang.* 2007; 92: 69-78 *

- Maegele M, Lefering R, Yucel N, Tjardes T, Rixen D, Paffrath T, Simanski C, Neugebauer E, Bouillon B and AG Polytrauma of DGU. Early coagulopathy in multiple injury: An analysis from the German Trauma Registry on 8724 patients. *Injury* 2007; 38: 298-304 *
- Probst C, Probst T, Gaensslen A, Krettek C, Pape HC, Polytrauma Study Group of the German Trauma Society: Timing and duration of the initial pelvic stabilization after multiple trauma in patients from the German Trauma Registry: is there an influence on outcome? *J Trauma* 2007; 62: 370-377 *
- Roudsari BS, Nathens AB, Arreola-Risa C, Cameron P, Civil I, Grigoriou G, Gruen RL, Koepsell TD, Lecky FE, Lefering R, Liberman M, Mock CN, Oestern HJ, Petridou E, Schildhauer TA, Waydhas C, Zargar M, Rivara FP: Emergency Medical Service (EMS) systems in developed and developing countries. *Injury* 2007; 38: 1001-1013 *
- Roudsari BS, Nathens AB, Cameron P, Civil I, Gruen RL, Koepsell TD, Lecky FE, Lefering R, Liberman M, Mock CN, Oestern HJ, Schildhauer TA, Waydhas C, Rivara FP: International comparison of prehospital trauma care systems. *Injury* 2007; 38: 993-1000 *
- Ruchholtz S, Lefering R, Paffrath T, Bouillon B, Sektion NIS der DGU: Traumaregister der Deutschen Gesellschaft für Unfallchirurgie. *Trauma Berufskrankheit* 2007; 9: 270-278 *
- Ruchholtz S, Kühne CA, Siebert H und der Arbeitskreis Umsetzung Weißbuch/Traumanetzwerk in der DGU – AKUT. Traumanetzwerk der Deutschen Gesellschaft für Unfallchirurgie. *Unfallchirurg* 2007; 110: 373-380 *
- Schinkel C, Frangen TM, Kmetc A, Andress HJ, Muhr D und die AG Polytrauma der DGU. Wirbelsäulenfrakturen bei Mehrfachverletzten. Eine Analyse des DGU-Traumaregisters. *Unfallchirurg* 2007; 110: 946-952 *
- Siebert HR, Ruchholtz S: Projekt TraumaNetzwerk^D DGU. *Trauma Berufskrankh.* 2007; 9: 265-270 *
- The EuroTARN Group (Edwards A, Di Bartolomeo S, Chierigato A, Coats T, Della Corte F, Giannoudis P, Gomes E, Groenborg H, Lefering R, Leppaniemi A, Lossius HM, Oakley P, Ortenwal P, Roise O, Rusnak M, Sturms L, Smith M, Bondegaard Tomsen AM, Willet K, Woodford M, Yates D, Lecky F). A comparison of European Trauma Registries. The first report from the EuroTARN Group. *Resuscitation* 2007; 75: 268-297 *
- Waydhas C, Sauerland S: Pre-hospital pleura decompression and chest tube placement after blunt trauma: A systematic review. *Resuscitation* 2007; 72: 11-25 *

2006:

- Dutton RP, Lefering R, Lynn M: Database predictors of transfusion and mortality. *J Trauma* 2006; 60: S70-S77 *
- Harwood PJ, Giannoudis PV, Probst C, van Giensven M, Krettek C, Pape HC and the Polytrauma Study Group of the German Trauma Society: Which AIS based scoring system is the best predictor of outcome in orthopaedic blunt trauma patients? *J. Trauma* 2006; 60: 334-340 *
- Kanz KG, Huber-Wagner SM, Lefering R, Kay MV, Qvick ML, Biberthaler P, Mutschler W und AG Polytrauma der DGU: Abschätzung von Operationskapazitäten bei einem Massenanfall von Verletzten anhand des Zeitbedarfs für lebensrettende Notfalloperationen. *Unfallchirurg* 2006; 109: 278-284 *
- Kauvar DS, Lefering R, Wade CE: Impact of hemorrhage on trauma outcome: An overview of epidemiology, clinical presentations, and therapeutic considerations. *J Trauma* 2006; 60: S3-S11 *

Kühne CA, Ruchholtz S, Buschmann C, Sturm J, Lackner CK, Wentzensen A, Bouillon B, Weber C und AG Polytrauma der DGU: Polytraumaversorgung in Deutschland: Eine Standortbestimmung. *Unfallchirurg* 2006; 109: 357-366 *

Pirente N, Ottlik Y, Lefering R, Bouillon B, Neugebauer E and the Working Group Polytrauma of the DGU: Quality of life in multiply injured patients. Development of the Trauma Outcome Profile (TOP) as part of the modular Polytrauma Outcome (POLO) chart. *Europ J Trauma* 2006; 32: 44-62 *

Probst C, Paffrath T, Krettek C, Pape HC and the German Trauma Registry. Comparative update on documentation of trauma in seven national registries. *Europ. J. Trauma* 2006; 32: 357-364 *

Yücel N, Lefering R, Maegele M, Vorweg M, Tjardes T, Ruchholtz S, Wappler F, Bouillon B, Rixen D, and Polytrauma Study Group of DGU: Trauma-associated severe hemorrhage (TASH) – score: early risk evaluation of life threatening hemorrhage in multiple trauma. *J. Trauma* 2006; 60: 1228-1237 *

2005:

Grimme K, Pape HC, Probst C, Seelis M, Sott A, Harwood P, Zelle B, Krettek C, Allgöwer M: Calculation of different triage scores based on the German Trauma Registry. Value of the shock index. *Europ. J. Trauma* 2005; 31: 480-487 *

Helm M, Kulla M, Hauke J, Wieland V, Lampl L: Improved data quality by pen computer-assisted emergency room data recording following major trauma. *Europ J Trauma* 2005; 31: 252-257 *

Kühne CA, Ruchholtz S, Voggenreiter G, Eggebrecht H, Paffrath T, Waydhas C, Nast-Kolb D und AG Polytrauma der DGU: Traumatische Aortenverletzungen bei polytraumatisierten Patienten. *Unfallchirurg* 2005; 108: 279-287 *

Matthes G, Seifert J, Bogatzki S, Steinhage K, Ekkernkamp A, Stengel D: Alter und Überlebenswahrscheinlichkeit nach Polytrauma. „Local Tailoring“ des DGU-Prognosemodells. *Unfallchirurg* 2005; 108: 288-292 *

Rixen D, Grass G, Sauerland S, Lefering R, Raum MR, Yücel N, Bouillon B, Neugebauer EAM and the Polytrauma Study Group of the German Trauma Society: Evaluation of criteria for temporary external fixation in risk-adapted damage control orthopedic surgery of femur shaft fractures in multiple trauma patients: 'Evidence based medicine' versus 'reality' in the trauma registry of the German Trauma Society. *J Trauma* 2005; 59: 1375-1395 *

2004:

Aufmkolk M, Ruchholtz S, Hering M, Waydhas C, Nast-Kolb D und AG Polytrauma der DGU: Wertigkeit der subjektiven Einschätzung der Thoraxverletzungsschwere durch den Notarzt. *Notfall & Rettungsmedizin* 2004; 7: 493-500 *

Beck A, Bischoff M, Gebhard F, Huber-Lang M, Kinzl L, Schmelz A: Apparative Diagnostik im Schockraum. *Unfallchirurg* 2004; 107: 862-870 *

Grotz M, Schwermann T, Mahlke L, Lefering R, Ruchholtz S, Graf v.d. Schulenburg JM, Krettek C, Pape HC: DRG-Entlohnung beim Polytrauma – Ein Vergleich mit den tatsächlichen Krankenhauskosten anhand des DGU-Traumaregisters. *Unfallchirurg* 2004; 107: 68-76 *

- Paffrath T. Klinikübergreifendes Trauma-Register verbessert die Versorgung Schwerverletzter. *Krankenhaus IT-Journal* 1/2004: 44-47 *
- Ruchholtz S, AG Polytrauma der DGU: Das externe Qualitätsmanagement in der klinischen Schwerverletztenversorgung. *Unfallchirurg* 2004, 107: 837-843 *
- Schwermann T, Grotz M, Blanke M, Ruchholtz S, Lefering R, Graf v.d.Schulenburg JM, Krettek C, Pape HC und AG Polytrauma der DGU: Evaluation der Kosten von polytraumatisierten Patienten insbesondere aus der Perspektive des Krankenhauses. *Unfallchirurg* 2004; 107: 563-74 *
- Schwermann T: Analysen des Traumaregisters der DGU: Kostenmodul Polytrauma. *J Anästhesie Intensivbeh* 1-2004: 230-233 *
- Schwermann T. Datenbasierte Erhebung und statistische Bewertung der Behandlungskosten und des Outcomes von Polytraumapatienten. (Reihe: Betriebswirtschaft) Shaker Verlag, Aachen. 2004
- Zettl RP, Ruchholtz S, Lewan U, Waydhas C, Nast-Kolb D: Lebensqualität polytraumatisierter Patienten 2 Jahre nach Unfall. *Notfall & Rettungsmedizin* 2004, 7: 547-553 *

2003:

- Aufmkolk M, Ruchholtz S, Hering M, Waydhas C, Nast-Kolb D, und AG Polytrauma der DGU: Wertigkeit der subjektiven Einschätzung der Thoraxverletzungsschwere durch den Notarzt. *Unfallchirurg* 2003; 106: 746-753 *
- Guenther S, Waydhas C, Ose C, Nast-Kolb D and Multiple Trauma Task Force of the German Trauma Society: Quality of multiple trauma care in 33 German and Swiss trauma centers during a 5-year period: regular versus on-call service. *J Trauma* 2003; 54: 973-978 *
- Kühne CA, Homann M, Ose C, Waydhas C, Nast-Kolb D, Ruchholtz S: Der Schockraumpatient. Einschätzung ernster Schädelverletzungen anhand der GCS bei vermeintlich leichtem und mittelschwerem Schädel-Hirn-Trauma. *Unfallchirurg* 2003; 106: 380-386 *
- Pape HC, Grotz M, Schwermann T, Ruchholtz S, Lefering R, Rieger M, Tröger M, Graf v.d.Schulenburg JM, Krettek C und AG Polytrauma der DGU: Entwicklung eines Modells zur Berechnung der Kosten der Versorgung Schwerverletzter - eine Initiative des Traumaregisters der DGU. *Unfallchirurg* 2003; 106: 348-357 *
- Pape HC, Krettek C: Frakturversorgung des Schwerverletzten – Einfluss des Prinzips der „verletzungsadaptierten Behandlungsstrategie“ („damage control orthopaedic surgery“). *Unfallchirurg* 2003; 106: 87-96 *
- Rixen D, Raum M, Bouillon B, Lefering R, Neugebauer E und die AG Polytrauma der DGU. Die Basen-Defizit-Entwicklung und ihre prognostische Bedeutung im posttraumatischen Verlauf. Eine Analyse mit Hilfe des Traumaregisters der DGU (Herbert-Lauterbach-Preis 2002). *DGU - Mitteilungen und Nachrichten* 47 / 2003: 21-23.
- Ruchholtz S, Schwermann T, Lefering R, Grotz M, Pape H Ch, AG-Polytrauma der DGU: Was kostet ein Schwerverletzter im Schockraum. *J. Anästhesie Intensivbeh* 2003; 1: 219-222
- Schwermann T, Pape HC, Grotz M, Blanke M, Greiner W, Tröger M, Stalp M, Graf v.d.Schulenburg JM, Krettek C und AG Polytrauma der DGU: Einflussfaktoren auf die Überlebenschancen beim Polytrauma. *Gesundheitsökonomie und Qualitätsmanagement* 2003; 8: 285-289 *

Waydhas C, Sauerland S. Thoraxtrauma und Thoraxdrainage: Diagnostik und Therapie – Ein systematisches Review. Teil 1: Diagnostik. *Notfall Rettungsmed.* 2003; 6: 541-548 *

Waydhas C, Sauerland S. Thoraxtrauma und Thoraxdrainage: Diagnostik und Therapie – Ein systematisches Review. Teil 2: Therapie. *Notfall Rettungsmed.* 2003; 6: 627-639 *

Westhoff J, Hildebrand F, Grotz M, Richter M, Pape HC, Krettek C: Trauma care in Germany. *Injury* 2003; 34: 674-683 *

Zelle B, Stalp M, Weihs C, Müller F, Reiter FO, Krettek C, Pape HC und AG Polytrauma der DGU: Hannover Score for Polytrauma Outcome (HASPOC). Validierung am Beispiel von 170 Polytrauma-Patienten und Vergleich mit dem SF-12. *Chirurg* 2003; 74: 361-369 *

2002:

Lefering R: Trauma score systems for quality assessment. *Europ. J. Trauma* 2002; 28: 52-63 *

Neugebauer E, Sauerland S und AG Polytrauma der DGU: Leitlinienentwicklung: Der polytraumatisierte Patient von der Akutversorgung bis zur Rehabilitation. *J. Anästhesie* 2002; 1: 185.

Oestern HJ, Schwermann T: Qualität und Ökonomie - ein unüberbrückbarer Gegensatz? In: Kongressband der Deutschen Gesellschaft für Chirurgie. Springer, Berlin 2002; S. 937-40.

Pirente N, Bouillon B, Schäfer B, Raum M, Helling HJ, Berger E, Neugebauer E und AG Polytrauma der DGU. Systematische Entwicklung eines Messinstruments zur Erfassung der gesundheitsbezogenen Lebensqualität beim polytraumatisierten Patienten. Die Polytrauma-Outcome- (POLO)-Chart. *Unfallchirurg* 2002; **105**: 413-422 *

Rixen D, Raum M, Bouillon B, Neugebauer E und die AG Polytrauma der DGU: Der Base Excess als Prognose-Indikator bei Polytrauma-Patienten. *Anaesthesiol Intensivmed Notfallmed Schmerzther* 2002; 37: 347-349.

Ruchholtz S, Waydhas C, Ose C, Lewan U, Nast-Kolb D and Working Group on Multiple Trauma of the German Trauma Society: Prehospital intubation in severe thoracic trauma without respiratory insufficiency: a matched-pair analysis based on the Trauma Registry of the German Trauma Society. *J. Trauma* 2002; 52: 879-886 *

Stalp M, Koch C, Ruchholtz S, Regel G, Panzica M, Krettek C, Pape HC: Standardized outcome evaluation after blunt multiple injuries by scoring systems: a clinical follow-up investigation 2 years after injury. *J Trauma* 2002; 52: 1160-1168 *

2001:

Bouillon B, Neugebauer E: Qualitätsmanagement bei Schwerverletzten. *Z. Ärztl. Fortbild. Qualitätssich.* 2001; 95: 475-478

Oestern HJ: Das Polytrauma-Register, ein Beitrag zur Qualitätsverbesserung. In: Ekkernkamp A, Scheibe: Qualitätsmanagement. Ecomed, Augsburg 2001

Oestern HJ, Rieger G, Wittke M und AG Polytrauma der DGU: Lehren und Konsequenzen aus Sammelregistern: Das Polytraumaregister der DGU. In: Kongressband der Deutschen Gesellschaft für Chirurgie. Springer, Berlin 2001, S. 712-715

Pirente N, Gregor S, Bouillon B, Neugebauer E: Lebensqualität schwerstverletzter Patienten ein Jahr

nach dem Trauma – eine 'Matched-pair'-Studie im Vergleich zu einer gesunden Kontrollgruppe. *Unfallchirurg* 2001; 104: 57-63 *

Raum MR, Bouillon B, Rixen D, Lefering R, Tiling T, Neugebauer E and German Polytrauma Study Group of the German Trauma Society: The prognostic value of prothrombin time in predicting survival after major trauma: a prospective analysis of 1,351 patients from the German Trauma Registry. *Europ. J. Trauma* 2001; 27: 110-116 *

Rixen D, Raum M, Bouillon B, Lefering R, Neugebauer E und AG Polytrauma der DGU: Base deficit development and its prognostic significance in posttrauma critical illness: An analysis by the Trauma Registry of the DGU. *Shock* 2001; 15: 83-89 *

Rixen D, Raum M, Bouillon B, Schlosser LE, Neugebauer E und AG Polytrauma der DGU: Prognoseabschätzung des Schwerverletzten. Eine Analyse von 2069 Schwerverletzten des Traumaregisters der DGU. *Unfallchirurg* 2001; 104: 230-239 *

Stalp M, Koch C, Regel G, Krettek C, Pape HC und AG Polytrauma der DGU: Entwicklung eines standardisierten Instruments zur quantitativen und reproduzierbaren Rehabilitationserfassung nach Polytrauma (HASPOC). *Chirurg* 2001; 72: 312-318 *

2000:

Bardenheuer M, Obertacke U, Waydhas C und AG Polytrauma der DGU: Epidemiologie des Schwerverletzten - eine prospektive Erfassung der präklinischen und klinischen Versorgung. *Unfallchirurg* 2000; 103: 355-363 *

Nast-Kolb D, Ruchholtz S, Oestern HJ, Neugebauer E und AG Polytrauma der DGU: Das Traumaregister der Arbeitsgemeinschaft "Polytrauma" der Deutschen Gesellschaft für Unfallchirurgie *Notfall & Rettungsmedizin* 2000; 3: 147-150 *

Nast-Kolb D, Taeger G, Bardenheuer M: Indikationsbegrenzung beim alten und multimorbiden Patienten. *Unfallchirurg* 2000; 103: 168-171 *

Neugebauer E, Bouillon B, Schlosser LE, AG Polytrauma DGU: Guidelines in Multiple Injured Patients. The Approach of the German Trauma Registry. In: Gonzalez-Feria L, von Wild KRH, Diemath HE: Quality management in head injuries care. Santa Cruz de Tenerife, Servicio de Salud 2000; S. 119-125

Oestern HJ, Nast-Kolb D, Pape HC, Stalp M: Gegenwärtiger Stand der Traumadokumentation in Deutschland. *Notfall & Rettungsmed.* 2000; 3: 151-155 *

Pape HC: Thoraxtrauma im Alter. *J. Anästhesie Intensivbehandl* 2000; 7: 154-155.

Pape HC, Oestern H-J, Leenen L, Yates DW, Stalp M, Grimme K, Tscherne H, Krettek C and the German Polytrauma Study Group: Documentation of blunt trauma in Europe. Survey of the current status of documentation and appraisal of the value of standardization. *Europ. J. Trauma* 2000; 5: 233-247 *

Rixen D, Bouillon B, Neugebauer E: Konzeption des Qualitätsmanagements beim Polytrauma. *J. Anästhesie Intensivbeh.* 2000; 7: 166-168.

Ruchholtz S und AG Polytrauma der DGU: Das Traumaregister der Deutschen Gesellschaft für Unfallchirurgie als Grundlage des interklinischen Qualitätsmanagements in der Schwerverletztenversorgung. *Unfallchirurg* 2000; 103: 30-37 *

Ruchholtz S, Waydhas C, Nast-Kolb D und AG Polytrauma der DGU: Qualitätsmanagement und Outcome in der Primärversorgung: Umsetzung und Ergebnisse der AG Polytrauma der DGU am Beispiel des Traumaregisters der DGU. *J. Anästhesie Intensivbeh.* 2000; 7: 170-173.

Waydhas C, Kanz KG, Nast-Kolb D: Klinisches Polytraumamanagment (Kap. 10). In: Dick WF, Ahnefeld FW, Knuth P: Logbuch der Notfallmedizin, Springer, Berlin 2000, S. 99-107

1999:

Bardenheuer M, Obertacke U, Ruchholtz S und AG Polytrauma der DGU: Polytrauma beim alten Menschen. *Hefte zu "Der Unfallchirurg"* 1999; 275: 162-163.

Jansen T, Warnecke J, Rieger G, Oestern HJ, AG Polytrauma der DGU: Gibt es frühe prognostische Indizes der Sepsis beim Beckentrauma? *Hefte zu "Der Unfallchirurg"* 1999; 275: 483.

Nast-Kolb D: Grenzen der Behandlung Schwerstverletzter. *Chirurg* 1999; 70: 1278-1284 *

Nast-Kolb D, Ruchholtz S: Qualitätsmanagement der frühen klinischen Behandlung schwer verletzter Patienten. *Unfallchirurg* 1999; 102: 338-346 *

Oestern HJ: Versorgung Polytraumatisierter im internationalen Vergleich. *Unfallchirurg* 1999; 102: 80-91 *

Pape HC, Stalp M, Dahlweid M, Regel G, Tscherne H und AG Polytrauma der DGU: Welche primäre Operationsdauer ist hinsichtlich eines ‚Borderline-Zustandes‘ polytraumatisierter Patienten vertretbar? Eine prospektive Evaluation anhand des Traumaregisters der DGU. *Unfallchirurg* 1999; 102: 861-869.

Ruchholtz S, Nast-Kolb D, Waydhas C, Schweiberer L: Der polytraumatisierte Patient, Triage und Versorgungsprioritäten. *Anesthesiol. Intensivmed. Notfallmed. Schmerzther.* 1999; 34 (Suppl 1): S6-S12.

Ruchholtz S, Waydhas C, Zintl B, Zettl R, Schweiberer L, Nast-Kolb D: Kann die klinische Versorgung schwerverletzter Patienten durch Qualitätssicherung und Qualitätsmanagement optimiert werden? *Langenbecks Arch. Suppl.* 1999; 116: 1029-1031.

Stalp M, Pape HC, Koch C und AG Polytrauma der DGU: Standardisierte Erfassung der Behandlungsergebnisse 2 Jahre nach Polytrauma. *Hefte zu "Der Unfallchirurg"* 1999; 275: 165-167.

1998:

Bardenheuer M, Obertacke U: Sepsis nach Polytrauma - eine aktuelle Analyse. *Hefte zu "Der Unfallchirurg"* 1998; 272: 381-382

Bouillon B, Neugebauer E: Outcome after polytrauma. *Langenbeck's Arch. Surg.* 1998; 383: 228-234

Nast-Kolb D, Trupka A, Ruchholtz S, Schweiberer L: Abdominaltrauma. *Unfallchirurg* 1998; 101: 82-91 *

Nast-Kolb D, Waydhas C, Linsenmeier U, Pfeifer KJ, Schweiberer L: Indikation und Durchführung der Thromboseprophylaxe beim Polytrauma. *Akt. Traumatol.* 1998; 28: 91-95

Pape HC, Baur H, Pohlemann T, Tscherne H: Beckenverletzungen bei Polytrauma - eine Untersuchung prognostischer Parameter anhand des DGU-Traumaregisters. *Hefte zu "Der Unfallchirurg"* 1998; 272: 76-77

Rixen D: Warum stirbt das Polytrauma? Das Paradigma der Hypoxie im posttraumatischen Krankheitsverlauf - eine aktuelle Übersicht und klinische Relevanz. In: Eypasch E, Nagelschmidt M, Neugebauer E: Chirurgische Interaktion - Ideengeber und Ideennehmer. J. A. Barth, Heidelberg, 1998, S. 102-117

Rixen D, Bouillon B, Neugebauer E: Prognoseabschätzung des Polytraumas - eine Analyse von 2069 Patienten des Traumaregisters der DGU. *Hefte zu "Der Unfallchirurg"* 1998; 272: 389-390

Ruchholtz S, Zintl B, Nast-Kolb D, Waydhas C, Lewan U, Kanz K G, Schwender D, Pfeifer KJ, Schweiberer L: Improvement in the therapy of multiply injured patients by introduction of clinical management guidelines. *Injury* 1998; 29: 115-129.

Zintl B, Ruchholtz S, Waydhas C, Nast-Kolb D: Diagnostik Schwerverletzter in der frühen Hospitalphase im Rahmen eines Qualitätsmanagementsystems. *Hefte zu "Der Unfallchirurg"* 1998; 272: 587-588.

1997:

Bardenheuer M, Obertacke U, Schmidt-Neuerburg KP und AG Polytrauma der DGU: Das DGU-Traumaregister zur Standortbestimmung des schweren Traumas in Deutschland. *Hefte zu "Der Unfallchirurg"* 1997; 268: 269-273.

Bouillon B, Lefering R, Vorweg M, Tiling T, Neugebauer E, Troidl H: Trauma Score Systems: Cologne Validation Study. *J Trauma* 1997; 42: 652-658.

Bouillon B: Die präklinische Therapie beim Polytrauma - wie effektiv ist sie? *Hefte zu "Der Unfallchirurg"* 1997; 268: 295-298.

Nast-Kolb D: Marknagelung beim Polytrauma. Für und Wider der Frühversorgung. *Unfallchirurg* 1997; 100: 80-84

Nast-Kolb D, Ruchholtz S, Waydhas C: Evaluation und Qualitätsmanagement bei der Polytraumaversorgung. *Langenbecks Arch. Chir. Suppl. II* 1997; 330-336.

Nast-Kolb D, Waydhas C, Gippner-Steppert C, Schneider I, Trupka A, Ruchholtz S, Zettl R, Schweiberer L, Jochum M: Indicators of the posttraumatic inflammatory response correlate with organ failure in patients with multiple injuries. *J. Trauma* 1997; 42: 446-454.

Pape HC, Regel G: Das schwere Thoraxtrauma - Entscheidungshilfen bei der Diagnostik und Therapie. *J. Anästhesie Intensivmed.* 1-1997: 98-100.

Pape HC, Regel G, Baur H und AG Polytrauma der DGU: Einfluss der Sekundäroperationen auf den klinischen Verlauf - Eine Untersuchung an 1037 Patienten des DGU Traumaregisters. *Hefte zu "Der Unfallchirurg"* 1997; 268: 581-582.

Regel G und AG Polytrauma der DGU: Kann die Qualität in der Versorgung des Polytraumas erhöht werden? - Eine Analyse der Deutschen Gesellschaft für Unfallchirurgie. *Hefte zu "Der Unfallchirurg"* 1997; 268: 305-307.

Rieger G, Kabus K, Oestern HJ und AG Polytrauma der DGU: Sind Major Trauma Outcome Study und Traumaregister vergleichbar? *Hefte zu "Der Unfallchirurg"* 1997; 268: 266-269.

Rixen D, Bouillon B, Neugebauer E, und AG Polytrauma der DGU: Der Base Excess bei Klinikaufnahme als Indikator für posttraumatische Hämodynamik, Transfusionsbedarf und Mortalität - Eine Analyse mit Hilfe des Traumaregisters der DGU. *Hefte zu "Der Unfallchirurg"* 1997; 268: 280-283.

- Ruchholtz S, Nast-Kolb D, Waydhas C, Lefering R und AG Polytrauma der DGU: Das Traumaregister der AG "Polytrauma" der DGU als Grundlage des Qualitätsmanagements in der Schwerverletztenversorgung. *Langenbecks Arch. Chir. Suppl. II* 1997; 114: 1265-1267.
- Ruchholtz S, Nast-Kolb D, Waydhas C, Lefering R und die AG Polytrauma der DGU: Die interklinische Analyse der Behandlung schwerverletzter Patienten durch das Traumaregister der Deutschen Gesellschaft für Unfallchirurgie. *Hefte zu "Der Unfallchirurg"* 1997; 268: 262-265.
- Ruchholtz S, Zintl B, Nast-Kolb D, Waydhas C Schwender D, Pfeifer KJ, Schweiberer L: Qualitätsmanagement in der frühen klinischen Polytraumaversorgung: II. Therapieoptimierung durch Behandlungsleitlinien. *Unfallchirurg* 1997; 100: 859-866 *
- Waydhas C, Kanz KG, Ruchholtz S, Nast-Kolb D: Algorithmen in der Traumaversorgung. *Unfallchirurg* 1997; 100: 913-921 *
- Waydhas C, Nast-Kolb D, Ruchholtz S: Zeit- und Prioritätenorientierter Algorithmus. *Langenbecks Arch. Chir. Suppl. II (Kongressbd.)* 1997; 114: 966-969.
- Zintl B, Ruchholtz S, Nast-Kolb D, Waydhas C, Schweiberer L: Qualitätsmanagement der frühen klinischen Polytraumaversorgung: Dokumentation der Behandlung und Beurteilung der Versorgungsqualität. *Unfallchirurg* 1997; 100: 811-819 *
- Zintl B, Ruchholtz S, Waydhas C, Nast-Kolb D: Therapieoptimierung durch prioritätenorientierte Behandlungsleitlinien (Algorithmen) bei der frühen klinischen Polytraumaversorgung. *Hefte zu "Der Unfallchirurg"* 1997; 268: 273-276.