Stanford



L. Henry Goodnough, MD, PhD

Assistant Professor of Orthopaedic Surgery

CLINICAL OFFICE (PRIMARY)

- **Orthopaedic Surgery**
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  Redwood City, CA 94063
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ACADEMIC CONTACT INFORMATION

- **Academic Contact**
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Bio

BIO

Dr. Goodnough is an orthopaedic surgeon who is fellowship-trained in orthopaedic traumatology. This specialty is dedicated to the care of patients with complex injuries to the body's bones, joints, or tissues.

Dr. Goodnough is a clinical instructor of orthopaedic surgery. He also holds a PhD degree, and his doctoral research focused on genetic mechanisms of early bone development.

For each patient, he develops a personalized plan of care. His goals are to treat the patient's injury, restore function, and help promote the best possible quality of life. His clinical interests include nonunions, periarticular fractures, fractures of the pelvis and acetabulum, and infections.

Dr. Goodnough has conducted research on the role of skeletal stem cells in fracture healing. He also has investigated how cells function in fractures that have failed to heal ("nonunions").

He has co-authored articles on his research discoveries in the Journal of the American Academy of Orthopaedic Surgery, Journal of Orthopaedic Trauma, Journal of Bone and Mineral Research, and elsewhere. Topics include advances in surgical technique and technology.

He also has contributed to chapters in the textbooks Surgery of the Hip, Skeletal Trauma of the Upper Extremity, and Operative Techniques in Orthopedic Trauma.

Dr. Goodnough has presented the findings of his research at numerous national and regional conferences. They include meetings of the Orthopaedic Trauma Association, American Academy of Orthopaedic Surgeons, and Western Orthopaedic Association. Topics have included the effects of non-steroidal anti-inflammatory drugs on skeletal stem cells in fractures.

Dr. Goodnough is a member of the American Academy of Orthopaedic Surgeons, Orthopaedic Trauma Association, and AO, the global network of doctors dedicated to the surgical treatment of trauma and musculoskeletal disorders.

CLINICAL FOCUS

- Orthopaedic Trauma

ACADEMIC APPOINTMENTS

- Assistant Professor-Univ Med Line, Orthopaedic Surgery

HONORS AND AWARDS

- Recipient, Orthopaedic Summit Resident Travel Grant
- What's New in Musculoskeletal Basic Science, Journal of Bone and Joint Surgery "Orthobuzz"
- Resident Award, Western Orthopaedic Association Annual Meeting
- Recipient, Depuy Synthes Travel Grant
- Recipient, Foundations Orthopedic Trauma Travel Grant
- Intern of the Year, Stanford Department of Vascular Surgery
- Member, Alpha Omega Alpha Honors Society
- Recipient, Doctoral Excellence Award in Pathology
- Recognition, Graduate School, Case Western Reserve University School of Medicine (4.0 Cumulative GPA)
- Representative, Case Western Reserve University Medical Science Training Program, National MD/PhD Conference
- Finalist, Lindau Laureates
- Best Poster, Musculoskeletal Research Day, Case Western Reserve University School of Medicine
- Best Poster, MSTP Winter Retreat, Case Western Reserve University School of Medicine
- Participant, National Institutes of Health Medical Scientist Training Program

PROFESSIONAL EDUCATION

- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2023)
- Fellowship: Harborview Medical Center (2021) WA
- Residency: Stanford University Orthopaedic Surgery Residency (2020) CA
- Medical Education: Case Western Reserve School of Medicine (2015) OH

Research & Scholarship

CLINICAL TRIALS

- Patient-Reported and Functional Outcomes After Nonoperative Management of Minimally Displaced Femoral Neck Fractures, Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Andrew Du

Publications

PUBLICATIONS

- **Short-term outcomes of locking mini-fragment plate fixation for treatment of Vancouver B2 periprosthetic femur fractures.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
  Lee, M. L., Pius, A. K., Goodnough, L. H.
  2025; 35 (1): 288

- **Human skeletal development and regeneration are shaped by functional diversity of stem cells across skeletal sites.** *Cell stem cell*
  Ambrosi, T. H., Taheri, S., Chen, K., Sinha, R., Wang, Y., Hunt, E. J., Goodnough, L. H., Murphy, M. P., Steininger, H. M., Hoover, M. Y., Felix, F., Weldon, K. C., Koepke, et al
  2025

- **Preoperative and Postoperative Therapeutic Anticoagulation in Orthopaedic Surgery Increases the Risk of Bleeding: A Systematic Review and Meta-Analysis.** *The Journal of the American Academy of Orthopaedic Surgeons*
  Wadhwa, H., Rohde, M. S., Xiao, M., Maschhoff, C., Bishop, J. A., Gardner, M. J., Goodnough, L. H.
  2024

- **Outcomes of isolated medial tibial plateau fractures by fracture morphology.** *Injury*
  Cruz, J. P., Michaud, J. B., Van Rysselberghe, N. L., Walsh, D., Svetgoff, R., Bailey, R., Pirkle, S. B., Megerian, M. F., Harbison, G. J., Becerra, J. A., Sakka, B., Vega, A., Bohlen, et al
  2024; 55 (8): 111662

- **Historic indications for fixation of posterior malleolus fractures- where did they come from and where are we now?** *Injury*
  Hunt, A. A., Maschhoff, C., Van Rysselberghe, N., Gonzalez, C. A., Goodnough, H., Gardner, M., Bishop, J. A.
  2024; 55 (6): 111537

- **The use of hinged elbow orthosis following surgical management of terrible triad injuries of the elbow.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
  Cruz, J. P., Salazar, B., van Niekerk, M., Finlay, A. K., Van Rysselberghe, N. L., Goodnough, L. H., Bishop, J. A., Gardner, M. J.
  2024

- **Retrograde Intramedullary Nailing Versus Locked Plating for Extreme Distal Periprosthetic Femur Fractures: A Multicenter Retrospective Cohort Study.** *Journal of orthopaedic trauma*
  Van Rysselberghe, N. L., Seltzer, R., Lawson, T. A., Kuether, J., White, P., Grisdela, P., Daniell, H., Amirhekmat, A., Merchan, N., Seaver, T., Samineni, A., Saiz, A., Ngo, et al
  2023

- **A Single Proximal Interlocking Bolt May Be Sufficient for Retrograde Nailing of Extra-articular Femur Fractures.** *Journal of orthopaedic trauma*
  Campbell, S. T., Dhillon, E., Sliepka, J., Higgins, A., DeBaun, M. R., Goodnough, L. H., Agel, J., Barei, D. P.
  2022; 36 (12): 610-614

- **A Staged Protocol for Treatment of High Energy Tongue - Type Calcaneus Fractures: Surgical Technique and Case Series.** *Journal of orthopaedic trauma*
  Goodnough, L. H., Bunzel, E. W., Benirschke, S. K., Githens, M. F.
  2022

- **Relationship of Aging, Inflammation, and Skeletal Stem Cells and Their Effects on Fracture Repair.** *Current osteoporosis reports*
  Goodnough, L. H., Goodman, S. B.
  2022

- **Risk of Revision After Hip Fracture Fixation Using DePuy Synthes Trochanteric Fixation Nail or Trochanteric Fixation Nail Advanced: A Cohort Study of 7,979 Patients.** *The Journal of bone and joint surgery. American volume*
  Goodnough, L. H., Chang, R. N., Fasig, B. H., Prentice, H. A., Paxton, E. W., Diekmann, G. R., Jackman, J. M., Okike, K., Fang, A. S.
  2022

- **Mini-fragment plating of olecranon fractures is comparable to precontoured small-fragment plating.** *Journal of orthopaedics*
  Wadhwa, H., Oquendo, Y. A., Goodnough, L. H., DeBaun, M. R., Bishop, J. A., Gardner, M. J.

2022; 30: 41-45

- **A bioactive synthetic membrane improves bone healing in a preclinical nonunion model.** *Injury*
  DeBaun, M. R., Salazar, B. P., Bai, Y., Gardner, M. J., Yang, Y. P., Stanford iTEAM group, Pan, C., Stahl, A. M., Moeinzadeh, S., Kim, S., Lui, E., Kim, C., Lin, S., et al
  1800

- **Cross-species comparisons reveal resistance of human skeletal stem cells to inhibition by non-steroidal anti-inflammatory drugs.** *Frontiers in endocrinology*
  Goodnough, L. H., Ambrosi, T. H., Steininger, H. M., Butler, M. G., Hoover, M. Y., Choo, H., Van Rysselberghe, N. L., Bellino, M. J., Bishop, J. A., Gardner, M. J., Chan, C. K.
  2022; 13: 924927

- **Impact on periosteal vasculature after dual plating of the distal femur: a cadaveric study.** *OTA international : the open access journal of orthopaedic trauma*
  Chen, M. J., Goodnough, L. H., Salazar, B. P., Gardner, M. J.
  2021; 4 (2): e131

- **Antibiotic resistance: still a cause of concern?** *OTA international : the open access journal of orthopaedic trauma*
  DeBaun, M. R., Lai, C., Sanchez, M., Chen, M. J., Goodnough, L. H., Chang, A., Bishop, J. A., Gardner, M. J.
  2021; 4 (3 Suppl)

- **Supplemental medial small fragment fixation adds stability to distal femur fixation: A biomechanical study.** *Injury*
  Henry Goodnough, L., Salazar, B. P., Chen, M. J., Storaci, H., Guzman, R., Heffner, M., Tam, K., DeBaun, M. R., Gardner, M. J.
  2021

- **Authors' Reply to Michael Auerbach's Comment on: "Frequency and Associated Costs of Anaphylaxis- and Hypersensitivity-Related Adverse Events for Intravenous Iron Products in the USA: An Analysis Using the US Food and Drug Administration Adverse Event Reporting System".** *Drug safety*
  Trumbo, H., Kaluza, K., Numan, S., Goodnough, L. T.
  2021

- **Indications for cement augmentation in fixation of geriatric intertrochanteric femur fractures: a systematic review of evidence.** *Archives of orthopaedic and trauma surgery*
  Goodnough, L. H., Wadhwa, H., Tigchelaar, S. S., DeBaun, M. R., Chen, M. J., Graves, M. L., Gardner, M. J.
  2021

- **White-Light Body Scanning Captures Three-Dimensional Shoulder Deformity After Displaced Diaphyseal Clavicle Fracture.** *Journal of orthopaedic trauma*
  DeBaun, M. R., Lai, C., Schultz, B. J., Oquendo, Y. A., Campbell, S. T., Goodnough, L. H., Bishop, J. A., Gardner, M. J.
  2021; 35 (4): e142–e147

- **Medial Column Support in Pilon Fractures Using Percutaneous Intramedullary Large Fragment Fixation.** *Journal of orthopaedic trauma*
  Goodnough, L. H., Tigchelaar, S. S., Van Rysselberghe, N. L., DeBaun, M. R., Gardner, M. J., Hecht, G. G., Lucas, J. F.
  2021

- **Cephalomedullary helical blade is independently associated with less collapse in intertrochanteric femur fractures than lag screws.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
  Goodnough, L. H., Wadhwa, H., Tigchelaar, S. S., Pfaff, K., Heffner, M., Van Rysselberghe, N., DeBaun, M. R., Bishop, J. A., Gardner, M. J.
  2021

- **Short versus long cephalomedullary nailing of intertrochanteric fractures: a meta-analysis of 3208 patients.** *Archives of orthopaedic and trauma surgery*
  Cinque, M. E., Goodnough, L. H., Md, B. J., Fithian, A. T., DeBaun, M. n., Lucas, J. F., Md, M. J., Bishop, J. A.
  2021

- **Incidence and Management of Articular Impaction in Geriatric Olecranon Fractures.** *The Journal of the American Academy of Orthopaedic Surgeons*
  Wadhwa, H. n., Goodnough, L. H., Finlay, A. K., DeBaun, M. R., Campbell, S. T., Hecht, G. n., Lucas, J. F., Bishop, J. A., Gardner, M. J.
  2021

- **Distal Femur Replacement versus Open Reduction and Internal Fixation for Treatment of Periprosthetic Distal Femur Fractures: Systematic Review and Meta-Analysis.** *Journal of orthopaedic trauma*
  Wadhwa, H. n., Salazar, B. P., Goodnough, L. H., Van Rysselberghe, N. L., DeBaun, M. R., Wong, H. N., Gardner, M. J., Bishop, J. A.
  2021

- **Parenteral iron therapy and phosphorus homeostasis: A review.** *American journal of hematology*
  Kalantar-Zadeh, K. n., Ganz, T. n., Trumbo, H. n., Seid, M. H., Goodnough, L. T., Levine, M. A.
  2021

- **Artificial Neural Networks Predict 30-Day Mortality After Hip Fracture: Insights From Machine Learning.** *The Journal of the American Academy of Orthopaedic Surgeons*
  DeBaun, M. R., Chavez, G., Fithian, A., Oladeji, K., Van Rysselberghe, N., Goodnough, L. H., Bishop, J. A., Gardner, M. J.
  2020

- **Frequency and Associated Costs of Anaphylaxis- and Hypersensitivity-Related Adverse Events for Intravenous Iron Products in the USA: An Analysis Using the US Food and Drug Administration Adverse Event Reporting System.** *Drug safety*
  Trumbo, H., Kaluza, K., Numan, S., Goodnough, L. T.
  2020

- **Lateral Distractor Use During Internal Fixation of Tibial Plateau Fractures Has Minimal Risk of Iatrogenic Peroneal Nerve Palsy.** *Journal of orthopaedic trauma*
  Chen, M. J., Salazar, B. P., Tigchelaar, S. S., Frey, C. S., DeBaun, M. R., Goodnough, L. H., Bellino, M. J., Bishop, J. A., Gardner, M. J.
  2020

- **Delayed Union of a Diaphyseal Forearm Fracture Associated With Impaired Osteogenic Differentiation of Prospectively Isolated Human Skeletal Stem Cells.** *JBMR plus*
  Goodnough, L. H., Ambrosi, T. H., Steininger, H., DeBaun, M. R., Abrams, G. D., McAdams, T. R., Gardner, M. J., Chan, C. K., Bishop, J. A.
  2020; 4 (10): e10398

- **Human skeletal stem cell aging.** *Aging*
  Ambrosi, T. H., Goodnough, L. H., Chan, C. K.
  2020

- **Frequency and Associated Cost of Anaphylaxis- and Hypersensitivity-Related Adverse Events for Intravenous Iron Products: A Database Analysis**
  Trumbo, H., Goodnough, L., Kaluza, K., Numan, S.
  LIPPINCOTT WILLIAMS & WILKINS.2020: 31–32

- **Distal Femur Replacement versus Surgical Fixation for the Treatment of Geriatric Distal Femur Fractures: A Systematic Review.** *Journal of orthopaedic trauma*
  Salazar, B. P., Babian, A. R., DeBaun, M. R., Githens, M. F., Chavez, G. A., Goodnough, H., Gardner, M. J., Bishop, J. A.
  2020

- **Geriatric fragility fractures are associated with a human skeletal stem cell defect.** *Aging cell*
  Ambrosi, T. H., Goodnough, L. H., Steininger, H. M., Hoover, M. Y., Kim, E., Koepke, L. S., Marecic, O., Zhao, L., Seita, J., Bishop, J. A., Gardner, M. J., Chan, C. K.
  2020: e13164

- **Complication Rates after Lateral Plate Fixation of Periprosthetic Distal Femur Fractures: A Multicenter Study.** *Injury*
  Campbell, S. T., Lim, P. K., Kantor, A. H., Gausden, E. B., Goodnough, L. H., Park, A. Y., Bishop, J. A., Achor, T. S., Scolaro, J. A., Gardner, M. J.
  2020

- **How do pilon fractures heal? An analysis of dual plating and bridging callus formation.** *Injury*
  Campbell, S. T., Goodnough, L. H., Salazar, B., Lucas, J. F., Bishop, J. A., Gardner, M. J.
  2020

- **How do I manage severe postpartum hemorrhage?** *Transfusion*
  Butwick, A., Lyell, D., Goodnough, L.
  2020

- **Selective screw fixation is associated with early failure of primary acetabular components for aseptic loosening.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*
  Henry Goodnough, L., Bonano, J. C., Finlay, A. K., Aggarwal, V., Huddleston, J. I., Maloney, W. J., Goodman, S. B., Amanatullah, D. F.
  2020

- **Establishing a Satellite Transfusion Service Within an Academic Medical Center.** *American journal of clinical pathology*
  Murphy, C. H., Lim, A. Y., Chua, L., Shan, H., Goodnough, L. T., Virk, M. S.
  2020

- **Is percutaneous screw fixation really superior to non-operative management after valgus-impacted femoral neck fracture: a retrospective cohort study.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
  Goodnough, L. H., Wadhwa, H. n., Fithian, A. T., DeBaun, M. R., Campbell, S. T., Gardner, M. J., Bishop, J. A.
  2020

- **Iron Administration, Infection, and Anemia Management in CKD: Untangling the Effects of Intravenous Iron Therapy on Immunity and Infection Risk.** *Kidney medicine*
  Ganz, T. n., Aronoff, G. R., Gaillard, C. A., Goodnough, L. T., Macdougall, I. C., Mayer, G. n., Porto, G. n., Winkelmayer, W. C., Wish, J. B.
  2020; 2 (3): 341–53

- **Trochanteric fixation nail advanced with helical blade and cement augmentation: early experience with a retrospective cohort.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
  Goodnough, L. H., Wadhwa, H. n., Tigchelaar, S. S., DeBaun, M. R., Chen, M. J., Bishop, J. A., Gardner, M. J.
  2020

- **How I treat Anemia in the Perisurgical Setting.** *Blood*
  Shander, A. n., Kaufman, M. n., Goodnough, L. T.
  2020

- **How are peri-implant fractures below short versus long cephalomedullary nails different?** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
  Goodnough, L. H., Salazar, B. P., Furness, J. n., Feng, J. E., DeBaun, M. R., Campbell, S. T., Lucas, J. F., Cross, W. W., Leucht, P. n., Grant, K. D., Gardner, M. J., Bishop, J. A.
  2020

- **Metaphyseal callus formation in pilon fractures is associated with loss of alignment: Is stiffer better?** *Injury*
  Van Rysselberghe, N. L., Campbell, S. T., Goodnough, L. H., Salazar, B. P., Bishop, J. A., Bellino, M. J., Lucas, J. F., Gardner, M. J.
  2020

- **Dual Mini-Fragment Plating is Comparable to Precontoured Small Fragment Plating for Operative Diaphyseal Clavicle Fractures: A Retrospective Cohort Study.** *Journal of orthopaedic trauma*
  DeBaun, M. R., Chen, M. J., Campbell, S. T., Goodnough, L. H., Lai, C., Salazar, B. P., Bishop, J. A., Gardner, M. J.
  2019

- **Clinical decision support and improved blood use in patient blood management**
  Goodnough, L., Hollenhorst, M. A.
  AMER SOC HEMATOLOGY.2019: 577–82

- **Intramedullary Cage Fixation for Proximal Humerus Fractures Has Low Reoperation Rates at One Year: Results of a Multi-Center Study.** *Journal of orthopaedic trauma*
  Goodnough, L. H., Campbell, S. T., Githens, T. C., DeBaun, M. R., Bishop, J. A., Gardner, M. J.
  2019

- **Rates of Perioperative Complications Among Patients Undergoing Orthopedic Trauma Surgery Despite Having Positive Results for Methamphetamine** *ORTHOPEDICS*
  Githens, T., DeBaun, M. R., Campbell, S. T., Wu, E. J., Goodnough, L., Lichstein, P., Painter, C., Krygier, J. E., Bishop, J., Gardner, M. J.
  2019; 42 (4): 192–96

- **Geriatric olecranon fractures treated with plate fixation have low complication rates** *CURRENT ORTHOPAEDIC PRACTICE*
  Campbell, S. T., DeBaun, M. R., Goodnough, L., Bishop, J. A., Gardner, M. J.
  2019; 30 (4): 353–55

- **Changing practice patterns: flexed versus semi-extended positioning for tibial nailing** *CURRENT ORTHOPAEDIC PRACTICE*
  Goodnough, L., Campbell, S. T., Githens, M. F., Gardner, M. J., Bishop, J. A.
  2019; 30 (4): 356–60
- **Geriatric olecranon fractures treated with plate fixation have low complication rates** *CURRENT ORTHOPAEDIC PRACTICE*
  Campbell, S. T., DeBaun, M. R., Goodnough, L., Bishop, J. A., Gardner, M. J.
  2019; 30 (4): 353–55
- **Decreased estimated blood loss in lateral trans-psoas versus anterior approach to lumbar interbody fusion for degenerative spondylolisthesis.** *Journal of spine surgery (Hong Kong)*
  Goodnough, L. H., Koltsov, J., Wang, T., Xiong, G., Nathan, K., Cheng, I.
  2019; 5 (2): 185–93
- **From Tolerating Anemia to Treating Anemia** *ANNALS OF INTERNAL MEDICINE*
  Shander, A., Goodnough, L.
  2019; 170 (2): 125-+
- **Anemia of inflammation** *BLOOD*
  Weiss, G., Ganz, T., Goodnough, L. T.
  2019; 133 (1): 40–50
- **Understanding the Radiographic Anatomy of the Proximal Ulna and Avoiding Inadvertent Intraarticular Screw Placement.** *Journal of orthopaedic trauma*
  Githens, T. C., Campbell, S. T., Salazar, B. n., Goodnough, L. H., DeBaun, M. R., Bishop, J. A., Gardner, M. J.
  2019
- **Clinical decision support and improved blood use in patient blood management.** *Hematology. American Society of Hematology. Education Program*
  Goodnough, L. T., Hollenhorst, M. A.
  2019; 2019 (1): 577–82
- **Oral versus intravenous iron therapy for postpartum anemia: A systematic review and meta-analysis.** *American journal of obstetrics and gynecology*
  Sultan, P., Bampoe, S., Shah, R., Guo, N., Estes, J., Stave, C., Goodnough, T., Halpern, S., Butwick, A. J.
  2018
- **From Tolerating Anemia to Treating Anemia.** *Annals of internal medicine*
  Shander, A., Goodnough, L. T.
  2018
- **Anemia of inflammation.** *Blood*
  Weiss, G., Ganz, T., Goodnough, L. T.
  2018
- **Identification of the Human Skeletal Stem Cell** *CELL*
  Chan, C. K. F., Gulati, G. S., Sinha, R., Tompkins, J., Lopez, M., Carter, A. C., Ransom, R. C., Reinisch, A., Wearda, T., Murphy, M., Brewer, R. E., Koepke, L. S., Marecic, et al
  2018; 175 (1): 43-+
- **Identification of the Human Skeletal Stem Cell.** *Cell*
  Chan, C. K., Gulati, G. S., Sinha, R., Tompkins, J. V., Lopez, M., Carter, A. C., Ransom, R. C., Reinisch, A., Wearda, T., Murphy, M., Brewer, R. E., Koepke, L. S., Marecic, et al
  2018; 175 (1): 43
- **Management of anemia in patients who decline blood transfusion** *AMERICAN JOURNAL OF HEMATOLOGY*
  Shander, A., Goodnough, L.
  2018; 93 (9): 1183–91
- **Obesity Is Independently Associated With Early Aseptic Loosening in Primary Total Hip Arthroplasty** *JOURNAL OF ARTHROPLASTY*
  Goodnough, L. H., Finlay, A. K., Huddleston, J. I., Goodman, S. B., Maloney, W. J., Amanatullah, D. F.

2018; 33 (3): 882–86

- **Thresholds, triggers or requirements-time to look beyond the transfusion trials** *JOURNAL OF THORACIC DISEASE*
  Shander, A., Kim, T., Goodnough, L.
  2018; 10 (3): 1152–57
- **Antiseptics Commonly Used in Total Joint Arthroplasty Interact and May Form Toxic Products** *JOURNAL OF ARTHROPLASTY*
  Campbell, S. T., Goodnough, L. H., Bennett, C. G., Giori, N. J.
  2018; 33 (3): 844–46
- **Metal-on-metal total hip arthroplasty is not associated with cardiac disease** *BONE & JOINT JOURNAL*
  Goodnough, L. H., Bala, A., Huddleston, J. I., Goodman, S. B., Maloney, W. J., Amanatullah, D. F.
  2018; 100B (1): 28–32
- **Blood transfusion strategies in elderly patients** *LANCET HAEMATOLOGY*
  Murphy, M. F., Estcourt, L., Goodnough, L.
  2017; 4 (10): E453–E454
- **Real-Time Clinical Decision Support Decreases Inappropriate Plasma Transfusion** *AMERICAN JOURNAL OF CLINICAL PATHOLOGY*
  Shah, N., Baker, S. A., Spain, D., Shieh, L., Shepard, J., Hadhazy, E., Maggio, P., Goodnough, L. T.
  2017; 148 (2): 154–60
- **Blood Transfusion Therapy.** *Medical clinics of North America*
  Goodnough, L. T., Panigrahi, A. K.
  2017; 101 (2): 431-447
- **Management of anemia in patients with congestive heart failure** *AMERICAN JOURNAL OF HEMATOLOGY*
  Goodnough, L. T., Comin-Colet, J., Leal-Noval, S., Ozawa, S., Takere, J., Henry, D., Javidroozi, M., Hohmuth, B., Bisbe, E., Gross, I., Shander, A.
  2017; 92 (1): 88-93
- **Zika Virus and Patient Blood Management.** *Anesthesia and analgesia*
  Goodnough, L. T., Marques, M. B.
  2017; 124 (1): 282-289
- **"Simplified International Recommendations for the Implementation of Patient Blood Management" (SIR4PBM).** *Perioperative medicine (London, England)*
  Meybohm, P., Froessler, B., Goodnough, L. T., Klein, A. A., Muñoz, M., Murphy, M. F., Richards, T., Shander, A., Spahn, D. R., Zacharowski, K.
  2017; 6: 5-?
- **A Standardized Approach for Transfusion Medicine Support in Patients With Morbidly Adherent Placenta.** *Anesthesia and analgesia*
  Panigrahi, A. K., Yeaton-Massey, A. n., Bakhtary, S. n., Andrews, J. n., Lyell, D. J., Butwick, A. J., Goodnough, L. T.
  2017
- **Estimating Blood Loss.** *Anesthesia and analgesia*
  Goodnough, L. T., Panigrahi, A. K.
  2017; 125 (1): 13–14
- **"Simplified International Recommendations for the Implementation of Patient Blood Management" (SIR4PBM).** *Perioperative medicine (London, England)*
  Meybohm, P., Froessler, B., Goodnough, L. T., Klein, A. A., Muñoz, M., Murphy, M. F., Richards, T., Shander, A., Spahn, D. R., Zacharowski, K.
  2017; 6: 5-?
- **Patient Blood Management Bundles to facilitate implementation** *ANASTHESIOLOGIE & INTENSIVMEDIZIN*
  Meybohm, P., Richards, T., Isbister, J., Hofmann, A., Shander, A., GOODNOUGH, L. T., Munoz, M., Gombotz, H., Weber, C. F., Choorapoikayil, S., Spahn, D. R., Zacharowski, K.
  2017; 58: 16-29
- **Patient Blood Management Bundles to Facilitate Implementation** *TRANSFUSION MEDICINE REVIEWS*
  Meybohm, P., Richards, T., Isbister, J., Hofmann, A., Shander, A., Goodnough, L. T., Munoz, M., Gombotz, H., Weber, C. F., Choorapoikayil, S., Spahn, D. R., Zacharowski, K.
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