



Lawrence Tim Goodnough

Professor of Pathology and of Medicine (Hematology), Emeritus

CONTACT INFORMATION

- **Alternate Contact**

Devvyn Moore - Administrative Associate

Email devvyn@stanford.edu

Bio

BIO

Lawrence Tim Goodnough, MD is Professor of Pathology and Medicine (Hematology) in the Departments of Pathology and Medicine, at Stanford University.

Dr. Goodnough received his medical degree in 1975 from the University of Pennsylvania, completed an internship and residency in Internal Medicine at the University of Alabama Hospitals in Birmingham, Alabama, and a fellowship in Hematology/Oncology at Case Western Reserve University (CWRU). He is board certified in Medicine, Hematology, and Oncology; and has an American College of Pathology Certification in Blood Banking.

In his fellowship at CWRU, Dr. Goodnough specialized in coagulation research and later focused on Transfusion Medicine as a specialty that embraces the fields of Blood Banking, Coagulation, and Hematology.

As a frequent lecturer, he has presented his work in more than 300 national and international forums. Dr. Goodnough has contributed more than 500 articles and 200 abstracts to the medical literature. He has a long-standing interest in devising strategies for patients to utilize alternatives to blood transfusion for the management of anemia, a concept more recently defined as Patient Blood Management.

ACADEMIC APPOINTMENTS

- Emeritus Faculty - University Medical Line, Pathology

ADMINISTRATIVE APPOINTMENTS

- Director, Transfusion Service Stanford Medical Center, (2004-2015)
- Associate Director, Stanford Blood Center, (2004-2018)
- Director, Transfusion Medicine Fellowship Program, (2006-2019)
- Member, Committee on Performance, Professionalism, and Promotion Stanford University School of Medicine, (2007-2011)
- Director, Path 304A Clerkship Course, (2007- present)
- Chair, School of Medicine Faculty Senate Steering Committee, (2008-2010)
- Chair, School of Medicine Faculty Senate, (2008-2010)
- Member, Committee on Admissions, Stanford University School of Medicine, (2008- present)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Goodnough has a long-standing interest in alternatives to blood therapy. This includes the concept of autologous blood pre-donation before elective surgery; acute normovolemic hemodilution; erythropoietic agents to stimulate red blood cell production; pharmacologic strategies to reduce blood loss; artificial oxygen carriers; and re-evaluation of the transfusion trigger.

Publications:

Goodnough LT. Transfusion Medicine, in (Greer JP, Foerster J, Rodgers G et al, eds), Wintrobe's Clinical Hematology, 14th edition, Lippincott Williams & Wilkins, Philadelphia, PA, 2019;548-587.

Goodnough LT. Iron deficiency and related disorders. In Wintrobe's Clinical Hematology, 14th Edition (Greer JP, ed), Lippincott, Williams & Wilkins, Philadelphia, PA 2019;615-643.

Goodnough LT. Oral vs intravenous iron therapy for postpartum anemia: a systematic review and meta-analysis. Am J of Obstetrics and Gynecology 2018; doi: <https://doi.org/10.1016/j.ajog.2018.12.016>.

Goodnough LT. Anemia of Inflammation. Blood 2019;133:40-50.

Goodnough LT. The effects of monoclonal anti-CD47 on red cells, compatibility testing and transfusion requirements in refractory acute myeloid leukemia. Transfusion 2019;59(7):2248-2254.

Goodnough LT. Management of anemia in patients who decline blood transfusion. Amer J Hematol, 2018;1183-1191.

Goodnough LT. Real-time clinical decision support decreases inappropriate plasma transfusion. AJCP 2017;148:154-160.

Goodnough LT. A standardized approach for transfusion medicine support in patients with morbidly adherent placenta. Anesth & Analg 2017;125:603-608.

Goodnough LT. Patient blood management bundles to facilitate implementation. Trans Med Rev 2017;31:62-71.

Goodnough LT. Zika virus and patient blood management. Anesth & Analg 2017;124:282-289.

Goodnough LT. Simplified international recommendations for the implementation of patient blood management. Perioperative Medicine 2017;6:5-7.

Goodnough LT. Management of anemia in patients with congestive heart failure. Am. J. Hematol 2017;92:88-93.

Goodnough LT. How I train specialists in transfusion medicine. Transfusion 2016;56(12):2923-2933.

Goodnough LT. How do I use clinical decision support to improve red blood cell utilization. Transfusion 2016;56(10):2406-2411.

Publications

PUBLICATIONS

- **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
- **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
- **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
- **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

- **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
- **How do I manage severe postpartum hemorrhage?** *Transfusion*
Butwick, A., Lyell, D., Goodnough, L.
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
- **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., Winkelmayr, W. C., Wish, J. B.
2020; 2 (3): 341–53
- **How I treat Anemia in the Perisurgical Setting.** *Blood*
Shander, A. n., Kaufman, M. n., Goodnough, L. T.
2020
- **Clinical decision support and improved blood use in patient blood management**
Goodnough, L., Hollenhorst, M. A.
AMER SOC HEMATOLOGY.2019: 577–82
- **Oral vs 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, L., Halpern, S., Butwick, A.
2019; 222 (1): 19–+
- **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
- **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
- **Management of anemia in patients who decline blood transfusion** *AMERICAN JOURNAL OF HEMATOLOGY*
Shander, A., Goodnough, L.
2018; 93 (9): 1183–91
- **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

- **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
- **National and International Guidelines for Patient Blood Management in Obstetrics: A Qualitative Review** *ANESTHESIA AND ANALGESIA*
Shaylor, R., Weiniger, C. F., Austin, N., Tzabazis, A., Shander, A., Goodnough, L. T., Butwick, A. J.
2017; 124 (1): 216-232
- **"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
- **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.
2017; 31 (1): 62-71
- **Zika Virus and Patient Blood Management** *ANESTHESIA AND ANALGESIA*
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- **"Simplified International Recommendations for the Implementation of Patient Blood Management" (SIR4PBM).** *Perioperative medicine (London, England)*
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- **Management of anemia in patients with congestive heart failure** *AMERICAN JOURNAL OF HEMATOLOGY*
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- **How I train specialists in transfusion medicine** *TRANSFUSION*
Goodnough, L. T., Murphy, M. F.
2016; 56 (12): 2923-2933
- **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.
2016
- **How I use clinical decision support to improve red blood cell utilization** *TRANSFUSION*

- Goodnough, L. T., Baker, S. A., Shah, N.
2016; 56 (10): 2406-2411
- **Patient Blood Management as Standard of Care** *ANESTHESIA AND ANALGESIA*
Shander, A., Bracey, A. W., Goodnough, L. T., Gross, I., Hassan, N. E., Ozawa, S., Marques, M. B.
2016; 123 (4): 1051-53
 - **How I use clinical decision support to improve red blood cell utilization.** *Transfusion*
Tim Goodnough, L., Andrew Baker, S., Shah, N.
2016; 56 (10): 2406-2411
 - **Knowledge of blood loss at delivery among postpartum patients** *PEERJ*
Farber, M. K., Miller, C. M., Ramachandran, B., Hegde, P., Akbar, K., Goodnough, L. T., Butwick, A. J.
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 - **National and International Guidelines for Patient Blood Management in Obstetrics: A Qualitative Review.** *Anesthesia and analgesia*
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2016: -?
 - **Clinical Pattern in Hypotensive Transfusion Reactions.** *Anesthesia and analgesia*
Metcalf, R. A., Bakhtary, S., Goodnough, L. T., Andrews, J.
2016; 123 (2): 268-273
 - **Transportation Cooler Interventions Reduce Plasma and RBC Product Wastage.** *American journal of clinical pathology*
Metcalf, R. A., Baker, S. A., Goodnough, L. T., Shah, N.
2016; 146 (1): 18-24
 - **The Judicious Use of Recombinant Factor VIIa.** *Seminars in thrombosis and hemostasis*
Goodnough, L. T., Levy, J. H.
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 - **Study to investigate the association between placenta accreta subtype and red blood cell transfusion**
Bakhtary, S., Yeaton-Massey, A., Panigrahi, A., Lyell, D., Goodnough, L. T., Butwick, A. J.
MOSBY-ELSEVIER.2016: S380-S381
 - **International Validation of a Dithiothreitol (DTT)-Based Method to Resolve the Daratumumab Interference with Blood Compatibility Testing**
Chapuy, C. I., Aguad, M. D., Nicholson, R. T., AuBuchon, J. P., Cohn, C. S., Delaney, M., Cid, J., Dzik, W., Fung, M. K., Greinacher, A., Ang, A., Devine, D. V., Dunbar, et al
AMER SOC HEMATOLOGY.2015
 - **How do I implement an automated screen for high-titer ABO antibody as an inventory management tool for ABO plasma-incompatible platelets?** *TRANSFUSION*
Fontaine, M. J., Webster, J., Gomez, S., Pham, T. D., Goodnough, L. T., Galel, S. A.
2015; 55 (12): 2783-2789
 - **How do I implement an automated screen for high-titer ABO antibody as an inventory management tool for ABO plasma-incompatible platelets?** *Transfusion*
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Goodnough, L. T., Shah, N.
2015; 90 (10): 927-933
 - **Transfusions for anemia in adult and pediatric patients with malignancies.** *Blood reviews*
Shah, N., Andrews, J., Goodnough, L. T.
2015; 29 (5): 291-299
 - **Transfusion and coagulation management in major obstetric hemorrhage** *CURRENT OPINION IN ANESTHESIOLOGY*
Butwick, A. J., Goodnough, L. T.
2015; 28 (3): 275-284

- **Iron Deficiency Anemia in Women: A Practical Guide to Detection, Diagnosis, and Treatment** *OBSTETRICAL & GYNECOLOGICAL SURVEY*
Friedman, A. J., Shander, A., Martin, S. R., Calabrese, R. K., Ashton, M. E., Lew, I., Seid, M. H., Goodnough, L. T.
2015; 70 (5): 342-353
- **Infusion pump-mediated mechanical hemolysis in pediatric patients.** *Annals of clinical and laboratory science*
Hughes, J., McNaughton, J., Andrews, J., George, T., Bergero, C., Pyke-Grimm, K., Galel, S. A., Gonzalez, C., Goodnough, L. T., Fontaine, M. J.
2015; 45 (2): 140-147
- **How I use fibrinogen replacement therapy in acquired bleeding** *BLOOD*
Levy, J. H., Goodnough, L. T.
2015; 125 (9): 1387-1393
- **Why Providers Transfuse Blood Products Outside Recommended Guidelines in Spite of Integrated Electronic Best Practice Alerts** *JOURNAL OF HOSPITAL MEDICINE*
Chen, J. H., Fang, D. Z., Goodnough, L. T., Evans, K. H., Porter, M. L., Shieh, L.
2015; 10 (1): 1-7
- **Intravenous Iron Therapy in Patients with Iron Deficiency Anemia: Dosing Considerations.** *Anemia*
Koch, T. A., Myers, J., Goodnough, L. T.
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- **Cryoprecipitate therapy** *BRITISH JOURNAL OF ANAESTHESIA*
Nascimento, B., GOODNOUGH, L. T., Levy, J. H.
2014; 113 (6): 922-934
- **The next chapter in patient blood management: real-time clinical decision support.** *American journal of clinical pathology*
Goodnough, L. T., Shah, N.
2014; 142 (6): 741-747
- **The Next Chapter in Patient Blood Management Real-Time Clinical Decision Support** *AMERICAN JOURNAL OF CLINICAL PATHOLOGY*
Goodnough, L. T., Shah, N.
2014; 142 (6): 741-747
- **Blood utilization and hemoglobin levels in cancer patients after label and coverage changes for erythropoiesis-stimulating agents** *EXPERT REVIEW OF HEMATOLOGY*
Xu, H., Kaye, J. A., Saltus, C. W., Crawford, J., Gasal, E., Goodnough, L. T.
2014; 7 (5): 617-633
- **Restrictive blood transfusion practices are associated with improved patient outcomes** *TRANSFUSION*
Goodnough, L. T., Maggio, P., Hadhazy, E., Shieh, L., Hernandez-Boussard, T., Khari, P., Shah, N.
2014; 54 (10): 2753-2759
- **Restrictive blood transfusion practices are associated with improved patient outcomes.** *Transfusion*
Goodnough, L. T., Maggio, P., Hadhazy, E., Shieh, L., Hernandez-Boussard, T., Khari, P., Shah, N.
2014; 54 (10): 2753-2759
- **Case report of a transfusion-associated hepatitis A infection.** *Transfusion*
Hughes, J. A., Fontaine, M. J., Gonzalez, C. L., Layon, A. G., Goodnough, L. T., Galel, S. A.
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- **Case report of a transfusion-associated hepatitis A infection** *TRANSFUSION*
Hughes, J. A., Fontaine, M. J., Gonzalez, C. L., Layon, A. G., Goodnough, L. T., Galel, S. A.
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- **The scientific basis for patient blood management** *TRANSFUSION CLINIQUE ET BIOLOGIQUE*
Murphy, M. F., GOODNOUGH, L. T.
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- **Off-Label Use of Recombinant Human Factor VIIa** *ANNALS OF THORACIC SURGERY*
Goodnough, L., Levy, J. H.

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- **Iron Deficiency Anemia-Bridging the Knowledge and Practice Gap** *TRANSFUSION MEDICINE REVIEWS*
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2014; 28 (3): 156-166
- **Perioperative and transfusion outcomes in women undergoing cesarean hysterectomy for abnormal placentation.** *Transfusion*
Brookfield, K. F., Goodnough, L. T., Lyell, D. J., Butwick, A. J.
2014; 54 (6): 1530-1536
- **In reply.** *Transfusion*
Levy, J. H., Goodnough, L. T.
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- **Improved blood utilization using real-time clinical decision support.** *Transfusion*
Goodnough, L. T., Shieh, L., Hadhazy, E., Cheng, N., Khari, P., Maggio, P.
2014; 54 (5): 1358-1365
- **Fibrinogen as a therapeutic target for bleeding: a review of critical levels and replacement therapy** *TRANSFUSION*
Levy, J. H., Welsby, I., Goodnough, L. T.
2014; 54 (5): 1389-1405
- **Experience with intravenous ferric carboxymaltose in patients with iron deficiency anemia.** *Therapeutic advances in hematology*
Bregman, D. B., Goodnough, L. T.
2014; 5 (2): 48-60
- **Experience with intravenous ferric carboxymaltose in patients with iron deficiency anemia** *THERAPEUTIC ADVANCES IN HEMATOLOGY*
Bregman, D. B., Goodnough, L. T.
2014; 5 (2): 48-60
- **Ferric carboxymaltose in patients with iron-deficiency anemia and impaired renal function: the REPAIR-IDA trial** *NEPHROLOGY DIALYSIS TRANSPLANTATION*
Onken, J. E., Bregman, D. B., Harrington, R. A., Morris, D., Buerkert, J., Hamerski, D., Iftikhar, H., Mangoo-Karim, R., Martin, E. R., Martinez, C. O., Newman, G. E., Qunibi, W. Y., Ross, et al
2014; 29 (4): 833-842
- **Iron-related adverse effects from stored blood** *BLOOD*
Goodnough, L. T.
2014; 123 (9): 1287-1289
- **Open aortic valve replacement in a patient with Glanzmann's thrombasthenia: a multidisciplinary strategy to minimize perioperative bleeding.** *Transfusion*
Sheikh, A. Y., Hill, C. C., Goodnough, L. T., Leung, L. L., Fischbein, M. P.
2014; 54 (2): 300-305
- **Successful treatment of recurrent hyperhemolysis syndrome with immunosuppression and plasma-to-red blood cell exchange transfusion** *TRANSFUSION*
Uhlmann, E. J., Shenoy, S., Goodnough, L. T.
2014; 54 (2): 384-388
- **A multicenter, randomized, active-controlled study to investigate the efficacy and safety of intravenous ferric carboxymaltose in patients with iron deficiency anemia** *TRANSFUSION*
Onken, J. E., Bregman, D. B., Harrington, R. A., Morris, D., Acs, P., Akright, B., Barish, C., Bhaskar, B. S., Smith-Nguyen, G. N., Butcher, A., Koch, T. A., Goodnough, L. T.
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Shander, A., Goodnough, L. T.
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- **Do liberal blood transfusions cause more harm than good?** *BMJ (Clinical research ed.)*
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Goodnough, L. T., Schrier, S. L.
2014; 89 (1): 88-96
- **Does Plasma Transfusion Therapy Have a Role in Clinical Medicine?** *CRITICAL CARE MEDICINE*
Goodnough, L. T.
2013; 41 (8): 2041-2042
- **Concepts of blood transfusion in adults.** *Lancet*
Goodnough, L. T., Levy, J. H., Murphy, M. F.
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- **Alternatives to blood transfusion** *LANCET*
Spahn, D. R., Goodnough, L. T.
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- **Blood management: transfusion medicine comes of age.** *Lancet*
Goodnough, L. T.
2013; 381 (9880): 1791-1792
- **HEPCIDIN ASSAY AND IV IRON THERAPY ARE SUPERIOR TO FERRITIN AND ORAL IRON THERAPY IN IDENTIFYING PATIENTS WITH IRON DEFICIENCY ANEMIA (IDA)**
Goodnough, L., Morris, D., Koch, T., He, A., Bregman, D.
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- **Logistics of transfusion support for patients with massive hemorrhage** *CURRENT OPINION IN ANESTHESIOLOGY*
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- **Transfusion outcomes in patients undergoing coronary artery bypass grafting treated with prasugrel or clopidogrel: TRITON-TIMI 38 retrospective data analysis** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
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- **Update on erythropoiesis-stimulating agents** *BEST PRACTICE & RESEARCH-CLINICAL ANAESTHESIOLOGY*
Goodnough, L., Shander, A.
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- **Iron: the new advances in therapy.** *Best practice & research. Clinical anaesthesiology*
Auerbach, M., Goodnough, L. T., Shander, A.
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- **Hepcidin levels predict nonresponsiveness to oral iron therapy in patients with iron deficiency anemia** *AMERICAN JOURNAL OF HEMATOLOGY*
Bregman, D. B., Morris, D., Koch, T. A., He, A., Goodnough, L. T.
2013; 88 (2): 97-101
- **In reply.** *Anesthesiology*
Goodnough, L. T., Shander, A.
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McClain, C. M., Hughes, J., Andrews, J. C., Blackburn, J., Sephel, S., France, D., Viele, M., Goodnough, L. T., Young, P. P.
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- Goodnough, L. T., Shander, A.
2013; 116 (1): 15-34
- **Hemoglobinuria and Mechanical Hemolysis Associated with Red Blood Cell Transfusion in Pediatric Patients** *54th Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
McNaughton, J., Hughes, J., Andrews, J. C., George, T. I., Bergero, C., Pike-Grimm, K., Galel, S., Gonzalez, C., Goodnough, L., Fontaine, M. J.
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 - **Hepcidin Levels Predict Non-Responsiveness to Oral Iron Therapy in Patients with Iron Deficiency Anemia**
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 - **Invited commentary.** *Annals of thoracic surgery*
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