

### THE BOTTOM LINE

---

- e247**     **Induction, Bridging, or Straight Ahead: The Ongoing Dilemma of Allografting in Advanced Myelodysplastic Syndrome**  
*Nicolaus Kröger*
- e250**     **Intestinal Acute Graft-versus-Host Disease: A Bug Highway to the Bloodstream**  
*Mitchell E. Horwitz*

### REVIEWS

---

- e252**     **Nutritional and Post-Transplantation Outcomes of Enteral versus Parenteral Nutrition in Pediatric Hematopoietic Stem Cell Transplantation: A Systematic Review of Randomized and Nonrandomized Studies**  
*James C. Evans, Shashivadan P. Hirani, Justin J. Needle*
- e260**     **Risks and Outcomes of Allogeneic Hematopoietic Stem Cell Transplantation for Hematologic Malignancies in Patients with HIV Infection**  
*Shukaib Arslan, Mark R. Litzow, Nathan W. Cummins, Stacey A. Rizza, Andrew D. Badley, Willis Navarro, Shahrukh K. Hashmi*

### BIOLOGY

---

- I475**     **Long-Acting IL-33 Mobilizes High-Quality Hematopoietic Stem and Progenitor Cells More Efficiently Than Granulocyte Colony-Stimulating Factor or AMD3100**  
*Carsten Alt, Shujun Yuan, Faye Wu, Basha Stankovich, Joy Caloagan, Sandra Schopies, Josephine Y. Wu, Jun Shen, Doug Schneider, Ying Zhu, Xiao-Yan Zhao, Shaun M. Lippow, Maxine Bauzon*

### BIOMARKERS

---

- I486**     **Circulating Heme Oxygenase-1 and Complement Activation in Transplant-Associated Thrombotic Microangiopathy**  
*Tingting Pan, Jiaqian Qi, Tao You, Shiyu Han, Liping Yang, Wenjing Miao, Depei Wu, Changgeng Ruan, Li Zhu, Yue Han*

### IMMUNOTHERAPY

---

- I492**     **A Phase 2 Study of Pembrolizumab during Lymphodepletion after Autologous Hematopoietic Cell Transplantation for Multiple Myeloma**  
*Anita D'Souza, Parameswaran Hari, Marcelo Pasquini, Thomas Braun, Bryon Johnson, Steven Lundy, Daniel Couriel, Mehdi Hamadani, John Magenau, Binod Dhakal, Nirav N. Shah, Mary Riwes, Brian Parkin, Pavan Reddy, Attaphol Pawarode*

- 1498**     **Blinatumomab for Acute Lymphoblastic Leukemia Relapse after Allogeneic Hematopoietic Stem Cell Transplantation**  
*Anthony S. Stein, Hagop Kantarjian, Nicola Gökbuget, Ralf Bargou, Mark R. Litzow, Alessandro Rambaldi, Josep-Maria Ribera, Alicia Zhang, Zachary Zimmerman, Gerhard Zugmaier, Max S. Topp*

---

**AUTOLOGOUS**

---

- 1505**     **Outcomes of Consecutively Diagnosed Primary Central Nervous System Lymphoma Patients Using the Alberta Lymphoma Clinical Practice Guideline Incorporating Thiotepa-Busulfan Conditioning for Transplantation-Eligible Patients**  
*Sheilagh Sanders, Neil Chua, Jean-François Larouche, Carolyn Owen, Mona Shafey, Douglas A. Stewart*
- 1511**     **Gastrointestinal Microbiome and Mycobiome Changes during Autologous Transplantation for Multiple Myeloma: Results of a Prospective Pilot Study**  
*Najla El Jurdi, Ali Filali-Mouhim, Iman Salem, Mauricio Retuerto, Nina Margaret Dambrosio, Linda Baer, Hillard M. Lazarus, Paolo Caimi, Brenda Cooper, Benjamin Tomlinson, Leland Metheny, Ehsan Malek, Folashade Otegbeye, Rafick-Pierre Sekaly, Mahmoud Ghannoum, Marcos de Lima*
- 1520**     **Outcomes of Patients with Light Chain Amyloidosis Who Had Autologous Stem Cell Transplantation with 3 or More Organs Involved**  
*Abdullah S. Al Saleh, M. Hasib Sidiqi, Eli Muchtar, Angela Dispenzieri, Francis K. Buadi, David Dingli, Martha Q. Lacy, Rahma M. Warsame, Wilson I. Gonsalves, Taxiarchis V. Kourelis, William J. Hogan, Suzanne R. Hayman, Prashant Kapoor, Shaji K. Kumar, Morie A. Gertz*

---

**ALLOGENEIC – ADULT**

---

- 1526**     **Standard Antithymocyte Globulin Dosing Results in Poorer Outcomes in Overexposed Patients after Ex Vivo CD34<sup>+</sup> Selected Allogeneic Hematopoietic Cell Transplantation**  
*Michael Scordo, Valkal Bhatt, Patrick Hilden, Melody Smith, Katie Thoren, Christina Cho, Gunjan L. Shah, Molly A. Maloy, Esperanza B. Papadopoulos, Ann A. Jakubowski, Scott T. Avecilla, Richard J. O'Reilly, Hugo Castro-Malaspina, Roni Tamari, Brian C. Shaffer, Jaap J. Boelens, Miguel-Angel Perales, Sergio A. Giralt*
- 1536**     **Comparison of Outcomes of Allogeneic Transplantation for Primary Myelofibrosis among Hematopoietic Stem Cell Source Groups**  
*Makoto Murata, Katsuto Takenaka, Naoyuki Uchida, Yukiyasu Ozawa, Kazuteru Ohashi, Sung-Won Kim, Kazuhiro Ikegame, Yoshinobu Kanda, Hikaru Kobayashi, Jun Ishikawa, Hiroatsu Ago, Makoto Hirokawa, Takahiro Fukuda, Yoshiko Atsuta, Takeshi Kondo*
- 1544**     **Excellent Outcomes of Allogeneic Hematopoietic Stem Cell Transplantation in Patients with Paroxysmal Nocturnal Hemoglobinuria: A Single-Center Study**  
*Limin Liu, Shan Liu, Yanming Zhang, Huifen Zhou, Qingyuan Wang, Hong Tian, Feng Chen, Huiying Qiu, Xiaowen Tang, Yue Han, Chengcheng Fu, Zhengming Jin, Suning Chen, Aining Sun, Miao Miao, Depei Wu*

- I 550**      **Comparison between Upfront Transplantation and different Pretransplant Cytoreductive Treatment Approaches in Patients with High-Risk Myelodysplastic Syndrome and Secondary Acute Myelogenous Leukemia**  
*Thomas Schroeder, Nadija Wegener, Michael Lauseker, Christina Rautenberg, Kathrin Nachtkamp, Esther Schuler, Mustafa Kondakci, Rainer Haas, Ulrich Germing, Guido Kobbe*
- I 560**      **Pretreatment CD34<sup>+</sup>/CD38<sup>-</sup> Cell Burden as Prognostic Factor in Myelodysplastic Syndrome Patients Receiving Allogeneic Stem Cell Transplantation**  
*Madlen Jentzsch, Ulrike Geus, Juliane Grimm, Vladan Vucinic, Wolfram Pönisch, Georg-Nikolaus Franke, Gerhard Behre, Dietger Niedrwieser, Sebastian Schwind*
- I 567**      **Comparable Outcomes of First-Line Hematopoietic Stem Cell Transplantation from Unrelated and Matched Sibling Donors in Adult Patients with Aplastic Anemia: A Retrospective Single-Center Study**  
*Yuping Zhang, Liangliang Wu, Wenjian Mo, Ming Zhou, Yumiao Li, Xiaowei Chen, Caixia Wang, Shiyi Pan, Shilin Xu, Wei Zhou, Ruiqing Zhou, Shunqing Wang*
- I 576**      **Safety and Seropositivity after Live Attenuated Vaccine in Adult Patients Receiving Hematopoietic Stem Cell Transplantation**  
*Takatoshi Aoki, Tomohiko Kamimura, Shuro Yoshida, Yasuo Mori, Masanori Kadowaki, Kentaro Kohno, Daisuke Ishihara, Shingo Urata, Takeshi Sugio, Kenjiro Kamezaki, Koji Kato, Yoshikiyo Ito, Tetsuya Eto, Koichi Akashi, Toshihiro Miyamoto*
- I 586**      **Challenge to Predict Mobilized Peripheral Blood Stem Cells on the Fourth Day of Granulocyte Colony-Stimulating Factor Treatment in Healthy Donors: Predictive Value of Basal CD34<sup>+</sup> Cell and Platelet Counts**  
*Massimo Martino, Mercedes Gori, Tiziana Moscato, Virginia Naso, Anna Ferreri, Fabio Provenzano, Barbara Loteta, Maria Cristina Sanguedolce, Giuseppe Console, Antonia Dattola, Giulia Pucci, Massimo Gentile, Antonella Morabito, Anna Grazia Recchia, Giovanni Tripepi, Annalisa Pitino*

---

**PEDIATRIC**

---

- I 592**      **Unrelated Donor Peripheral Blood Stem Cell Transplantation for Patients with  $\beta$ -Thalassemia Major Based on a Novel Conditioning Regimen**  
*Lan Sun, Na Wang, Yi Chen, Liyuan Tang, Chongyun Xing, Nina Lu, Yifen Shi, Yongyong Ma, Fengyang Lin, Kang Yu, Jianhua Feng*
- I 597**      **Allogeneic Stem Cell Transplantation for Acute Lymphoblastic Leukemia in Adolescents and Young Adults**  
*Mayumi Hangai, Kevin Y. Urayama, Junji Tanaka, Koji Kato, Satoshi Nishiwaki, Katsuyoshi Koh, Maiko Noguchi, Keisuke Kato, Nao Yoshida, Maho Sato, Hiroaki Goto, Yuki Yuza, Yoshiko Hashii, Yoshiko Atsuta, Shuichi Mizuta, Motohiro Kato*

- 1603**    **Population Pharmacokinetics of Clofarabine as Part of Pretransplantation Conditioning in Pediatric Subjects before Hematopoietic Cell Transplantation**  
*Hechuan Wang, Aksana K. Jones, Christopher C. Dvorak, Liusheng Huang, Paul Orchard, Vijay Ivaturi, Janel Long-Boyle*

- 1611**    **Allogeneic Hematopoietic Stem Cell Transplantation, Especially Haploidentical, May Improve Long-Term Survival for High-Risk Pediatric Patients with Philadelphia Chromosome–Positive Acute Lymphoblastic Leukemia in the Tyrosine Kinase Inhibitor Era**  
*Yu-juan Xue, Yi-fei Cheng, Ai-dong Lu, Yu Wang, Ying-xi Zuo, Chen-hua Yan, Jun Wu, Yu-qian Sun, Pan Suo, Yu-hong Chen, Huan Chen, Yue-ping Jia, Kai-yan Liu, Wei Han, Lan-ping Xu, Le-ping Zhang, Xiao-jun Huang*

---

## HAPLOIDENTICAL

---

- 1621**    **Impact of Preemptive Granulocyte Infusions During Febrile Neutropenia in Patients Colonized with Carbapenem-Resistant Gram-Negative Bacteria Undergoing Haploidentical Transplantation**  
*Sarita Rani Jaiswal, Prakash Bhakuni, Gitali Bhagwati, Aby Joy, Aditi Chakrabarti, Suparno Chakrabarti*

- 1629**    **Incidence, Risk Factors, and Outcome of Immune-Mediated Neuropathies (IMNs) following Haploidentical Hematopoietic Stem Cell Transplantation**  
*Xi-ying Ren, Xiao Liu, Qiu-sha Huang, Qian-ming Wang, Yun He, Xiao-lu Zhu, Wei Han, Huan Chen, Yu-hong Chen, Feng-rong Wang, Jing-zhi Wang, Yuan-yuan Zhang, Xiao-dong Mo, Yao Chen, Yu Wang, Hai-xia Fu, Ying-jun Chang, Lan-ping Xu, Kai-yan Liu, Xiao-jun Huang, Xiao-hui Zhang*

---

## INFECTIOUS DISEASE

---

- 1637**    **Levofloxacin versus Cefpodoxime for Antibacterial Prophylaxis in Allogeneic Stem Cell Transplantation**  
*Vi P. Doan, Jason C. Yeh, Alison M. Gulbis, Samuel L. Aitken, Ella Ariza-Heredia, Sairah Ahmed*

- 1642**    **Severe Herpes Zoster Requiring Intravenous Antiviral Treatment in Allogeneic Hematopoietic Cell Transplantation Recipients on Standard Acyclovir Prophylaxis**  
*Emily Baumrin, Matthew P. Cheng, Sanjat Kanjilal, Vincent T. Ho, Nicolas C. Issa, Lindsey R. Baden*

- 1648**    **Incidence and Outcomes of Bacterial Bloodstream Infections during Acute Graft-versus-Host Disease Involving the Gastrointestinal Tract after Hematopoietic Cell Transplantation**  
*Jenna Petersen, Christian Lindner, Morgan Hakki*

**QUALITY OF CARE**

---

- I 654**     **Reduction in Nephrotoxic Antimicrobial Exposure Decreases Associated Acute Kidney Injury in Pediatric Hematopoietic Stem Cell Transplant Patients**  
*Stefanie W. Benoit, Stuart L. Goldstein, Devesh S. Dahale, David B. Haslam, Adam Nelson, Kori Truono, Stella M. Davies*

**ANALYSIS**

---

- I 659**     **Healthcare Utilization is High in Adult Patients Relapsing after Allogeneic Hematopoietic Cell Transplantation**  
*Jessica A. Langston, Vandana Sundaram, Vyjeyanthi S. Periyakoil, Lori Muffly*
- I 666**     **Outcomes of Related and Unrelated Donor Searches Among Patients with Primary Immunodeficiency Diseases Referred for Allogeneic Hematopoietic Cell Transplantation**  
*Mary Joseph Acevedo, Jennifer S. Wilder, Sharon Adams, Joie Davis, Corin Kelly, Dianne Hilligoss, Ellen Carroll, Bazetta Blacklock-Schuver, Kristen Cole, Elizabeth M. Kang, Amy P. Hsu, Christopher G. Kanakry, Dimana Dimitrova, Jennifer A. Kanakry*
- I 674**     **Sorafenib Therapy Is Associated with Improved Outcomes for FMS-like Tyrosine Kinase 3 Internal Tandem Duplication Acute Myeloid Leukemia Relapsing after Allogeneic Hematopoietic Stem Cell Transplantation**  
*Li Xuan, Yu Wang, Jia Chen, Erlic Jiang, Li Gao, Bingyi Wu, Lan Deng, Xinquan Liang, Fen Huang, Zhiping Fan, Xiaowen Tang, Jing Sun, Xi Zhang, Mingzhe Han, Depei Wu, Xiaojun Huang, Qifa Liu*
- I 682**     **Assessment of Individual versus Composite Endpoints of Acute Graft-versus-Host Disease in Determining Long-Term Survival after Allogeneic Transplantation**  
*John Magenau, Thomas Braun, Erin Gatzka, Tracey Churay, Amanda Mazzoli, Grant Chappell, Joseph Brisson, Lyndsey Runaas, Sarah Anand, Monalisa Ghosh, Mary Riwes, Attaphol Pawarode, Gregory Yanik, Pavan Reddy, Sung Won Choi*

**BRIEF ARTICLE**

---

- I 689**     **Efficacy, Toxicity, and Infectious Complications in Ruxolitinib-Treated Patients with Corticosteroid-Refractory Graft-versus-Host Disease after Hematopoietic Cell Transplantation**  
*Sameem Abedin, Edward McKenna, Saurabh Chhabra, Marcelo Pasquini, Nirav N. Shah, James Jerkins, Arielle Baim, Lyndsey Runaas, Walter Longo, William Drobyski, Parameswaran N. Hari, Mehdi Hamadani*

- 1695**    **Efficacy of Allogeneic Hematopoietic Cell Transplantation in Human T Cell Lymphotropic Virus Type I –Associated Adult T Cell Leukemia/ Lymphoma: Results of a Systematic Review/Meta-Analysis**  
*Madiha Iqbal, Tea Reljic, Farina Klocksieben, Taimur Sher, Ernesto Ayala, Hemant Murthy, Ali Bazarbachi, Ambuj Kumar, Mohamed A. Kharfan-Dabaja*

---

**LETTERS TO THE EDITOR**

---

- e268**    **Regarding “Recipients Receiving Better HLA-Matched Hematopoietic Cell Transplantation Grafts, Uncovered by a Novel HLA Typing Method, Have Superior Survival: A Retrospective Study”**  
*Carolyn K. Hurley, Stephen Spellman, Jason Dehn, Juliet N. Barker, Steven Devine, Marcelo Fernandez-Vina, Michael Gautreaux, Brent Logan, Martin Maiers, Carlheinz Mueller, Miguel-Angel Perales, Neng Yu, Joseph Pidala*

- e270**    **A reply to Hurley et al. regarding Recipients Receiving Better HLA-Matched Hematopoietic Cell Transplantation Grafts, Uncovered by a Novel HLA Typing Method, Have Superior Survival: A Retrospective Study**  
*Neema P. Mayor, James D. Hayhurst, Thomas R. Turner, Richard M. Szydlo, Bronwen E. Shaw, Will P. Bultitude, Jex-Ray Sayno, Franco Tavarozzi, Katy Latham, Chloe Anthias, James Robinson, Henny Braund, Robert Danby, Julia Perry, Marie C. Wilson, Adrian J. Bloor, I. Grant McQuaker, Stephen MacKinnon, David I. Marks, Antonio Pagliuca, Michael N. Potter, Victoria T. Potter, Nigel H. Russell, Kirsty J. Thomson, J. Alejandro Madrigal, Steven G.E. Marsh*

---

**ASTCT NOTES**

---

- 1701**    **ASTCT Notes**