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Risk factors, treatment and immune dysregulation in autoimmune cytopenia following 1 2 allogeneic hematopoietic stem cell transplantation in pediatric patients Matthijs D. Kruizinga¹, Maarten J.D. van Tol², Vincent Bekker¹, Tanja Netelenbos³, Frans J. Smiers¹, 3 Dorine Bresters¹, Anja M. Jansen-Hoogendijk², Monique M. van Ostaijen-ten Dam², Wouter J.W. 4 Kollen¹, Jaap J. Zwaginga^{3,4}, Arjan C. Lankester¹, Robbert G.M. Bredius¹* 5 6 7 ¹ Department of Pediatrics, section Immunology, Hematology and Stem Cell Transplantation, Leiden 8 University Medical Center, Leiden, the Netherlands. ² Department of Pediatrics, Laboratory for Immunology, Leiden University Medical Center, Leiden, the 9 10 Netherlands. ³ Department of Immunohematology and Blood Transfusion, Leiden University Medical Center, 11 12 Leiden, the Netherlands. ⁴ Center for Clinical Transfusion Research, Sanquin Research, Leiden, the Netherlands. 13 14 *Corresponding author 15 Dr. R.G.M. Bredius, Department of Pediatrics, section Immunology, Hematology and Stem Cell 16 Transplantation, Leiden University Medical Center, Albinusdreef 2, 2333 ZA Leiden, the Netherlands, 17 phone: +31 71 5264131, fax: +31 71 5248198, email: r.g.m.bredius@lumc.nl 18 19 Word count abstract: 237 20 21 Word count main text: 3707 22 Number of tables: 3 Number of figures: 3 23 24 Number of supplemental tables/figures: 7 25 Keywords: autoimmune cytopenia, stem cell transplantation, cytomegalovirus, hemolysis,

27

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28 Highlights

neutropenia, thrombopenia

• Autoimmune cytopenia following stem cell transplantation is a rare complication.

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