

Publication**Antibodies against carbonic anhydrase in patients with aplastic anemia****JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)****ID** 2832680**Author(s)** Lakota, J.; Lanz, A.; Dubrovackova, M.; Jankovicova, B.; Gonzalez, A.; Stern, M.**Author(s) at UniBasel** [Stern, Martin Andreas](#) ;**Year** 2012**Title** Antibodies against carbonic anhydrase in patients with aplastic anemia**Journal** Acta Haematologica**Volume** 128**Number** 3**Pages / Article-Number** 190-4

Keywords Anti-thymocyte globulin, Aplastic anemia, Bone marrow transplantation, Carbonic anhydrase

BACKGROUND/AIMS: Antibodies against carbonic anhydrase (CA) have been detected in patients with an aplastic anemia (AA)-like syndrome after autologous stem cell transplantation. **METHODS:** We analyzed sera of 53 bona fide AA patients before and after treatment with anti-thymocyte globulin (ATG) or bone marrow transplantation for the presence of anti-CA antibodies. **RESULTS:** Anti-CA antibodies were detected in 20 patients (38%) and were associated with older age at diagnosis of AA. Antibody-positive patients showed poor response to ATG treatment (complete response 14%) and inferior long-term survival (36% at 10 years), when compared to antibody-negative patients (complete response and 10-year survival both 64%). Two thirds of patients with antibodies at diagnosis of AA became antibody negative after treatment with ATG. Clearance of the antibody did not appear to be associated with hematological improvement. **CONCLUSION:** Antibodies against CA are detected frequently at diagnosis of AA, and their presence identifies a subset of patients with poor response to immunosuppressive treatment.

Publisher Karger**ISSN/ISBN** 0001-5792 ; 1421-9662**edoc-URL** <http://edoc.unibas.ch/dok/A6338086>**Full Text on edoc** Available;**Digital Object Identifier DOI** 10.1159/000338826**PubMed ID** <http://www.ncbi.nlm.nih.gov/pubmed/22889718>**ISI-Number** WOS:000307875700011**Document type (ISI)** Journal Article