



36th Hemophilia Symposium Hamburg 2005

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About 31% of the patients with a factor VIII replacement therapy develop a factor VIII inhibitor. From these are 23% low-responder (5BE) [8]. In the case of severe hemophilia B, about 10.5% of the patients develop inhibitory antibodies [9]. Anti-factor VIII-antibodies are also seen in 15-78% healthy people without hemophilia [7, 17, 19]. Lacroix-Desmazes et al. [10, 11] showed anti-idiotypic antibodies neutralizing the inhibitory activity of the anti-factor VIII antibodies in healthy people. Well-known predisposing factors for inhibitor formation are genetic features of factor VIII, which include large deletions, nonsense mutations or intrachromosomal recombinations [5, 23]. Also, ethnic groups other than Caucasians (e.g. Africans) have a higher risk of developing inhibitors. Other risk factors are presumably derived from the immune system. For instance, a reduction of the inhibitor was seen with lower CD4+ T helper cell counts in HIV positive hemophilic patients [3,4]. The development of inhibitors is very likely to be a Th-2 mediated event where cytokines and their receptors, T-cell receptors and the Major Histocompatibility Complex may also play an important role. Theoretical Background The substituted factor is an unknown protein for patients with a severe hemophilia. Fig. 1. The normal immunoresponse (according to BAENKLER [2]) Abbreviations: TCR - T cell-receptor; APC - antigen presenting cell 36 I. Wieland et al.

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