**S1 Methods. Prophylaxis against infections after PBSCT.**

According to institutional guidelines, levofloxacin was discontinued when patients had an absolute neutrophil count above 1 x 10^9/L. Antifungal prophylaxis was stopped at day 100 if patients had an absolute CD4⁺ T-cell count above 0.2 x 10^9/L and were off corticosteroids. Prophylaxis against Pneumocystis Jiroveci and Toxoplasmosis was withdrawn when immunosuppressive treatment was discontinued and CD4⁺ T-cell count was ≥ 0.2 x 10^9/L. Acyclovir was continued for at least 6 months after cessation of immunosuppression. Posaconazole and oral amoxicillin were given in case of moderate/severe chronic GVHD.