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Title: Effects of ulinastatin in treatment of invasive candidiasis

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Body: Objective To investigate the effects and mechanism of Ulinastatin (UTI) combined with antifungal agents in treatment of Invasive Candidiasis (IC). Method Sixty Kunming mice were randomly assigned to control group, low-dose group and high-dose group (each n=20). The model of IC was reproduced by intraperitoneal injection of White monial suspension after CTX pretreatment. Mice in control group were treated with antifungal agents. Mice in low-dose group and high-dose group were treated with UTI (10^4 U/kg or 5×10^4 U/kg) and antifungal agents. Survival rate, cytokine in liver tissue and blood lymphocyte subsets were compared among these groups. Results There was significant difference in survival rate between control group and high-dose group [30% (6/20) vs. 70% (14/20), $p=0.011$]. There was no significant difference in survival rate between other groups ($p>0.05$). There were significant differences in IL-10 among three groups [94.1 ± 9.11 vs. 93.9 ± 4.91 vs. 82.5 ± 14.0 , $p<0.05$]. There were significant differences in CD3+ rate, CD4+ rate and CD8+ rate between control group and high-dose group [22.5 ± 5.24 vs. 26.4 ± 3.63 , 14.6 ± 1.26 vs. 16.7 ± 2.19 , 6.60 ± 1.51 vs. 4.50 ± 0.97 , $p<0.05$]. There were significant differences in CD4+/CD8+ rate among three groups [2.32 ± 0.59 vs. 2.90 ± 0.87 vs. 3.82 ± 0.82 , $p<0.05$]. Conclusions High-dose UTI could improve survival rate in mice with IC through improving cellular immune and reducing immunosuppression.