



## 银翘解毒口服液对流感病毒FM1感染SCID小鼠NK细胞活性及IFN- $\gamma$ 含量的影响

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**中文摘要:**目的: 研究银翘解毒口服液对流感病毒FM1感染的T、B细胞缺陷小鼠(SCID)NK细胞活性及IFN- $\gamma$ 含量的影响。方法: 除正常对照组外,其余小鼠在感染流感病毒鼠肺炎适应株FM1后,分为模型组、阳性药组、银翘解毒口服液(YQD)5.0、10.0、20.0 g·kg<sup>-1</sup>剂量组,按组别灌胃,分别于感染后第1、3、5、7天采用乳酸脱氢酶释放法检测脾脏NK细胞活性;双抗体夹心ABC-ELISA法动态观察血清IFN- $\gamma$ 含量的变化。结果: 银翘解毒口服液治疗后,小鼠脾脏NK细胞活性和血清中IFN- $\gamma$ 含量均有所提高,并且体现出一定的量效关系。YQD 10.0、20.0 g·kg<sup>-1</sup>剂量组对两者的调节作用强于YQD 5.0 g·kg<sup>-1</sup>剂量组。从感染时相上看,NK细胞活性从第3天开始升高,到第5天达最大值,第7天有所回落;而血清IFN- $\gamma$ 含量第3天达峰值,并持续至第5天,第7天有所下降。结论: 银翘解毒口服液能够提高流感病毒感染小鼠脾脏NK细胞活性和血清IFN- $\gamma$ 含量,并且对两者具有不同的时效影响。

**中文关键词:** 银翘解毒口服液 甲型流感病毒 SCID小鼠 NK细胞活性 干扰素- $\gamma$

### Effects of Yinqiao detoxification oral liquid on NK cell viability and serum concentration of IFN- $\gamma$ in SCID mouse infected by influenza virus FM1

**Abstract:** Objective: To explore the dynamic effects of Yinqiao detoxification oral liquid (YQD) on NK cell lysis in spleen and serum concentration of IFN- $\gamma$  in SCID mouse infected by influenza A virus FM1. Method: The mice were divided into six different groups randomly. Except normal control, other mice were intranasally instilled with 15 TCID<sub>50</sub> of virus. Three dosage groups of YQD (5.0, 10.0, 20.0 g·kg<sup>-1</sup>) were respectively fed with YQD. Positive control group was administrated orally with 0.07 g·kg<sup>-1</sup> of ribavirin. Normal control and model group were fed with physiological saline. After 1, 3, 5 and 7 days' infection, spleens and serum were collected. Then the NK cell lysis was detected by LDH release kit and the concentration of IFN- $\gamma$  was examined by ELISA assay. Result: Contents of IFN- $\gamma$  reached to peak value on the 3th day and until the 5th day. Later, the level of IFN- $\gamma$  returned to normal level. The variation tendency of activity of NK cell in spleen was according with that of IFN- $\gamma$ . But it reached the maximum value until the 5th day. The activity of NK cell lysis in three groups of YQD was well above that in model group. In addition, therapeutic action of both 10.0 g·kg<sup>-1</sup> and 20.0 g·kg<sup>-1</sup> of YQD treatment groups was better than that of 5.0 g·kg<sup>-1</sup>. Conclusion: The data showed that serum concentration of IFN- $\gamma$  and NK cell lysis were improved by YQD at different time, which was demonstrated YQD could perform well in immune system.

**keywords:** Yinqiao detoxification oral liquid influenza A virus FM1 SCID mouse NK cell lysis IFN- $\gamma$

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