

论著

注射用尖吻蝥蛇凝血酶对兔凝血功能的影响

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摘要 目的 研究注射用尖吻蝥蛇凝血酶(Hem)对兔凝血功能的影响, 为临床应用提供实验依据。方法 于日本大耳白兔耳静脉分别一次性iv给予Hem 0.25, 0.5和1.0 U·kg⁻¹和阳性对照药注射用血凝酶(HAI)1.0 克氏单位(KU)·kg⁻¹, 于给药前(0 min)和给药后10 min, 30 min, 2 h和12 h分别采血, 应用Lee-White试管法测定全血凝血时间(CT), 血球计数仪测定血小板计数(PLT), C2000-4高性能血凝仪测定凝血酶原时间(PT)、凝血酶时间(TT)、血浆纤维蛋白原(FIB)和鞣花酸活化部分凝血活酶时间(APTT)。结果 正常对照组不同时间点各指标均无明显变化。与给药前比较, CT在给予Hem 0.25, 0.5和1.0 U·kg⁻¹和HAI 1.0 KU·kg⁻¹后10 min~12 h明显缩短(*P*<0.05); PLT在Hem 1.0 U·kg⁻¹给药后10~30 min明显增加(*P*<0.05); APTT在Hem 1.0 U·kg⁻¹(10 min~2 h)和HAI 1.0 KU·kg⁻¹(30 min~12 h)明显降低(*P*<0.05); PT在Hem 0.25 U·kg⁻¹(10 min), 0.5 U·kg⁻¹(10 min~2 h)和1.0 U·kg⁻¹(10~30 min)及HAI 1.0 KU·kg⁻¹(10~30 min)明显降低(*P*<0.05); TT在Hem 1.0 U·kg⁻¹(10 min~12 h)和HAI 1.0 KU·kg⁻¹(30 min)明显降低(*P*<0.05); FIB在Hem 0.25 U·kg⁻¹(30 min), 0.5 U·kg⁻¹(10~30 min)和1.0 U·kg⁻¹(10 min~2 h)及HAI 1.0 KU·kg⁻¹(10~30 min)明显升高(*P*<0.05)。结论 Hem 1.0 U·kg⁻¹在给药后10 min即有促凝血作用, TT缩短可持续12 h。

关键词 [尖吻蝥蛇凝血酶](#) [凝血酶](#) [凝血功能试验](#)

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Effect of hemocoagulase actutus for injection on blood coagulation function in rabbits

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Abstract

OBJECTIVE To investigate the effect of hemocoagulase actutus for injection (Hem) on the blood coagulation system in rabbits. **METHODS** The rabbits were divided into four groups. Three groups were given 0.25, 0.5 and 1.0 U·kg⁻¹ of Hem separately by ear intravenous injection, and one group was given hemocoagulase atrox for injection (HAI) 1.0 Klobusitzky unit (KU)·kg⁻¹ as positive control group. Before administration and 10 min, 30 min, 2 h and 12 h after administration, the coagulation time (CT) and platelet(PLT) were determined with Lee-White tube method and globulimeter, respectively. The prothrombin time (PT), thrombin time (TT), fibrinogen(FIB) and activated partial thromboplastin (APTT) were measured by C2000-4 high performance blood coagulation analyzer. **RESULTS** No index at different times in normal control group had obvious change. CT was shorted 10 min-12 h after Hem 0.25, 0.5 and 1.0 U·kg⁻¹ and HAI 1.0 KU·kg⁻¹ were given (*P*<0.05). PLT was increased 10-30 min after Hem 1.0 U·kg⁻¹

