Tehran University Medical Sciences	of TUMS
Current Issue Browse Issues Search About this Journal Instruction to Authors Online Submission Contact Us Contact Us Contact Us	Acta Medica I ranica 2009: 47(4) : 367-372 NOPH Diaphorase staining of the corpus cavernosum in cholestatic rats: Role of nitrergic and opioid systems ■ Corresponding Author: 3degripour H Destract: Background: Relaxation of the corpus cavernosum plays an important role in penile erection. Previous studies have suggested that hittic oxide (NO) appears to be the most important rolexant involved in the erection process. The aim of the present study was to evaluate the effect of cholestasis in nNOS and eNOS activity of corpus cavernosum. Methods: forty-two adult male Sprague-Dawley rats were divided equally into seven groups: control, sham operated, 2- , 7., and 14-day bile duct-ligated animais, 7-day bile duct-ligated chronically treated with L-NAME (3mg/kg/day, i.p.) and 7-day bile duct-ligated animais, 7-day bile duct-ligated chronically treated with L-NAME (3mg/kg/day, i.p.) and 7-day bile duct-ligated animais, 7-day bile duct-ligated chronically treated with L-NAME (3mg/kg/day, i.p.) and 7-day bile duct-ligated animais, 7-day bile duct-ligated chronically treated with NAIC envises and endothelium using an NADPH-diaphorase staining technique. <i>Results:</i> our results showed that NADPH diaphorase staining in corporal NANC nerves and endothelium of sham- operated and control group had equal intensity. The staining was more intense in 2-day cholestatic rats than in control group, nte staining intensity increased in 7., and 14-day groups too. There were no significant differences between control group and 7-day cholestatic rats that had been treated chronically with L-NAME or Naitrexone. <i>Choclusions:</i> These results state that in corpus cavernosum of cholestatic rats there is a time-dependent increase in NOS activity of the corporal NANC nerves and endothelium. inhibition of nitric oxide and endogenous opioids by L-NAME or Naitrexone during cholestasis may play a key role in preventing the adverse effects of cholestasis. <i>Keywords:</i> Cholestasis, erection, nitric oxide, opioids, naitrexone, corpu
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