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Effects of lipopolysaccharide on expression of cytosolic phospholipase A_2 in hepatic tissues after endotoxemia in rats

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Abstrac **Objective**: To study the effects of lipopolysaccharide (LPS) on the expression of cytosolic phospholipase A_2 ($cPLA_2$) in the hepatic tissues during endotoxemia in rats. **Methods**: 30 Wistar rats were randomized into the control and LPS-treated groups. The indicators of liver functions and the level of prostaglandin E_2 (PGE_2) in the serum of all the experimental animals were determined. The frozen sections of the liver tissues, after incubation and immunostaining, were studied with SP method to look for the expression of $cPLA_2$. **Results**: The activity of ALP and ALT and PGE_2 level were higher in the serum of LPS-treated group than in the control and $cPLA_2$ expression was also significantly higher in the LPS-treated group. **Conclusion**: $cPLA_2$ may contribute to elevate the serum level of PGE_2 during endotoxemia in rats.

Key words lipopolysaccharide; liver; phospholipase A_2; rat

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Natacyn 眼液治疗真菌性角膜溃疡 9 例临床报告

Report of 9 cases of keratomycosis treated with Natacyn

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真菌性角膜溃疡在我国有增多趋势[1], 但国内用来局部治疗该病的药物尚不够理想。本院近来用5% Natacyn 眼液(ALCON 公司)治疗 9 例真菌性角膜溃疡取得较好结果, 报告如下。

1 临床资料

9 例患者, 男性 8 例, 女性 1 例。年龄 10～65 岁, 平均年龄 41.5岁。右眼 3 例, 左眼 6 例, 以上病例均经刮片查出霉菌菌丝及孢子。确诊后根据病情轻重程度用 5% Natacyn 眼液滴患眼 1 次/2 h, 并常规用 1%阿托品眼液散瞳。结果 8 例治愈, 1 例有效, 痊愈 8 例的疗效最短为 8 d, 疗效最长为 31 d, 平均 20.6 d。

典型病例: 男, 10 岁。左眼红痛、异物感伴视力下降 15 d。患儿 15 d 前因腐烂枝叶刺伤左眼后发病, 曾在当地医院给予抗生素眼液无效, 后疼痛逐渐加重, 遂来我院。眼部检查: 左眼视力光感, 角膜中央 7 mm×6 mm 浸润, 偏下方 6 mm×4 mm 乳白

(下转 759 页)

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The relationship of unilateral ureteral obstruction-induced renal tubular interstitial fibrosis with TGF β_1 mRNA expression in rats

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Abstract　**Objective**：To study the possible role of transforming growth factor β_1（TGF β_1）in the formation of unilateral ureteral obstruction-induced interstitial fibrosis of renal tubules in rats. **Methods**：Rat model of unilateral ureteral obstruction was established. *In situ* hybridization，biochemical analysis were used to determine the relationship of TGF β_1 mRNA expression with the changes of hydroxyproline content and the morphological changes of the renal tubules，on the 1st，3rd，7th，14th adn 21st day after unilateral ureteral obstruction. **Results**：After unilateral ureteral obstruction，the content of hydroxyproline was significantly increased in the renal tissues and in the interstitial area of the renal tubules. Meanwhile，there was an increase of the expression of TGF β_1 mRNA. **Conclusion**：In the formation of interstitial fibrosis of the renal tubules induced by unilateral ureteral obstruction，the increase of TGF β_1 mRNA expression may be one of the factors.

Key words　transforming growth factor β_1；ureteral obstruction；interstitial fibrosis；renal tubule；rat

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色溃疡，表面粗糙干燥呈“苔垢”样。实验室检查：涂片镜检左眼结膜囊分泌物可见霉菌菌丝及孢子。患者入院后用静脉注射的 0.2%氟康唑液点眼，1 次/2 h，效果不明显。患儿疼痛明显，哭闹不止，夜间不能入睡，依赖 0.5%表麻滴瞳止痛及全身使用镇静药。第 3 天加 5% Natacyn 眼液点左眼，1 次/2 h。3 d 后患儿觉疼痛明显减轻，夜间能安睡。9 d 后溃疡表面干净，面积缩小为 4 mm×3 mm。30 d 后视力 0.02，溃疡面痊愈。

2　讨论

由于真菌性角膜溃疡无理想的抗真菌药物，故预后往往很差[2]，易出现角膜穿孔、丧失视力[3]。

Natacyn 在国外被誉为治疗真菌性角膜溃疡最有效的药物[4]，以前国内一直未引进，近来美国 ALCON 公司生产的 5%的 Natacyn 眼液开始进入国内，并在临床少量试用。Natacyn 眼液每毫升含有纳他霉素 50 mg。纳他霉素是 Struyk 等 1955 年从 NATALENSIS 链霉素菌中提取的四烯烃类抗菌素，在体外具有抗多种酵母菌和丝状真菌，包括念珠菌，曲霉菌，头孢子菌，镰刀霉菌和青霉菌的作用[4]。临床上 Forster 等[5]报道 53 例，有效 46 例(86.79%)；三井幸严等报道 188 例，有效 155 例(82.44%)。本文 9 例，有效 8 例。疗效和国产金羯霉素相近，而优于二性霉素 B 和克霉唑。

关键词　真菌性角膜溃疡；药物治疗
中图法分类号　R772.21　　**文献标识码**：B

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