

2002, 3:349 - 363.

12 Desmouliere A, Guyot C, Gabbiani G. The stroma reaction myofibroblast; a key player in the control of tumor cell behavior. *Int J Dev Biol*, 2004, 48: 509 - 517.

13 Thannickal VJ, Toews GB, White ES, et al. Mechanisms of pulmonary fibrosis. *Annu Rev Med*, 2004, 55: 395 - 417.

14 Desmouliere A, Chaponnier C, Gabbiani G. Tissue repair, contraction and the myofibroblast. *Wound Repair Regen*, 2005, 13:7 - 12.

15 李才, 主编. 器官纤维化——基础与临床. 北京: 人民卫生出版社, 2003. 1 - 34.

16 Phan SH. The myofibroblast in pulmonary fibrosis. *Chest*, 2002, 122: 286 - 289.

17 Pardo A, Selman M. Molecular mechanisms of pulmonary fibrosis. *Front Biosci*, 2002, 7:1743 - 1761.

18 Malmstrom J, Lindberg H, Lindberg C, et al. Transforming growth factor-beta 1 specifically induce proteins involved in the myofibroblast contractile apparatus. *Mol Cell Proteomics*, 2004, 3: 466 - 477.

19 Bellemare J, Roberge CJ, Bergeron D, et al. Epidermis promotes dermal fibrosis; role in the pathogenesis of hypertrophic scars. *J Pathol*, 2005, 206: 1 - 8.

20 Rossi F, Jankovski A, Sotelo C. Differential regenerative response of purkinje cell and inferior olivary axons confronted with embryonic grafts: environmental cues versus intrinsic neuronal determinants. *J Comp Neurol*, 1995, 359: 663 - 677.

21 Oppenheim RW. Neurotrophic survival molecules for motoneurons: an embarrassment of riches. *Neuron*, 1996, 17: 195 - 197.

22 Persson H, Ibanez CF. Role and expression of neurotrophins and the trk family of tyrosine kinase receptors in neural growth and rescue after injury. *Curr Opin Neurol Neurosurg*, 1993, 6:11 - 18.

23 Pettmann B, Henderson CE. Neuronal cell death. *Neuron*, 1998, 20: 633 - 647.

24 Snider WD. Functions of the neurotrophins during nervous system development; what the knockouts are teaching us. *Cell*, 1994, 77: 627 - 638.

25 Fang MZ, Liu C, Song Y, et al. Over-expression of gastrin-releasing peptide in human esophageal squamous cell carcinomas. *Carcinogenesis*, 2004, 25: 865 - 871.

26 Miura N, Naganuma A. Metallothionein mediates gene expression of 3.1 mRNA (PTZ17) related to epileptic seizure. *FEBS Lett*, 2000, 479: 146 - 148.

27 Kajiwar K, Nagawawa H, Nishikawa SS, et al. Molecular characterization of seizure-related genes isolated by differential screening. *Biochem Biophys Res Commun*, 1996, 219: 795 - 799.

28 Kajiwar K, Sugaya E, Yuyama N, et al. Molecular mechanism of regulation of pentylene tetrazol-induced calcium entry by 3'-untranslated region of a seizure-related cDNA, PTZ-17, in *Xenopus* oocytes. *Brain Res Mol Brain Res*, 1997, 47: 49 - 58.

29 Roschier M, Kuusisto E, Kyrlyenko S, et al. Expression of seizure-related PTZ-17 is induced by potassium deprivation in cerebellar granule cells. *Biochem Biophys Res Commun*, 1998, 252:10 - 13.

30 Baran N, Kelly PA, Binart N. Characterization of a prolactin-regulated gene in reproductive tissues using the prolactin receptor knockout mouse model. *Biol Reprod*, 2002, 66: 1210 - 1218.

31 Sironen R, Elo M, Kaarniranta K, et al. Transcriptional activation in chondrocytes submitted to hydrostatic pressure. *Biorheology*, 2000, 37: 85 - 93.

32 Lecker SH, Jagoe RT, Gilbert A, et al. Multiple types of skeletal muscle atrophy involve a common program of changes in gene expression. *Faseb J*, 2004, 18: 39 - 51.

33 Costa DN, Gillivray MC, Bai Q, et al. Restriction of dietary energy and protein induces molecular changes in young porcine skeletal muscles. *J Nutr*, 2004, 134: 2191 - 2199.

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· 病例报告 ·

尿囊素致烧伤后荨麻疹一例

薛铁所

尿囊素(康瑞保,德国法兰克福 D-60318 麦氏大药厂,批号:209721)是一种治疗瘢痕增生的外用药,根据药物说明“罕见有皮肤反应”,在我国及其他许多国家广泛应用。笔者在临床上救治 1 例烧伤后外用尿囊素导致荨麻疹的患者,现报告如下。

患者男,38 岁。全身多处被电弧烧伤,烧伤总面积 53%,其中深 II 度 25%、III 度 28% TBSA,伤后 1 h 急诊入院。经抗休克、抗感染、创面处理及多次手术,患者住院 4 个月后创面全部封闭,并开始出现瘢痕增生。用积雪苷霜软膏(扶原,上海雷允上封滨制药有限公司)治疗 4 个月,效果不明显,改用尿囊素治疗。几天后,患者全身出现大小不等的荨麻疹,且反复发作、痛痒剧烈,经中、西医多种抗过敏方法治疗,效果欠佳。后经过敏原筛查试验,结果显示对葱、姜、蒜过敏。患者停用尿囊素后几天,荨麻疹逐渐消退,未再复发。

讨论 经询问,本例患者曾有皮肤划痕试验可疑史,烧伤后抗休克期间输入同型血浆时也出现过荨麻疹,说明该患

者可能为过敏性体质。患者日常生活中食用葱、姜、蒜并无不适反应,就治期间对葱、姜、蒜过敏可能是烧伤所致。烧伤后免疫系统的变化,并不能被笼统称为烧伤后免疫抑制。实际是免疫网络平衡被打破,某些功能受到抑制,而某些功能被激活,导致一系列免疫活动异常<sup>[1]</sup>。该患者烧伤后出现过过敏反应,可能为某些免疫功能活化或过度活化<sup>[2]</sup>。尿囊素的主要成分为洋葱提取物,患者外用尿囊素后皮肤持续出现荨麻疹,停用后症状改善,证明荨麻疹确系尿囊素所致。

笔者建议,治疗烧伤后瘢痕增生的患者时,对可疑过敏体质者,特别是对葱、姜、蒜过敏者,应慎用尿囊素。

参 考 文 献

1 盛志勇,郭振荣,主编. 危重烧伤治疗与康复学. 北京:科学出版社,2000. 174 - 175.

2 吴军,罗高兴. 烧伤免疫研究进展. 中华烧伤杂志,2004,20:321 - 323.

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作者单位:030008 太原,兴安医院烧伤科