

疗中的一种重要手段。

参考文献:

- [1] Kirby C, Clarke J, Gregoriadis G. Effect of cholesterol content of small unilamellar liposomes on their stability in vivo and in vitro[J]. *Biochem J*, 1980, 186(2): 591.
- [2] Northfelt DW, Martin FJ, Working P, et al. Doxorubicin encapsulated in liposomes containing surface-bound polyethylene glycol: pharmacokinetics, tumor localization, and safety in patients with AIDS-related Kaposi sarcoma[J]. *J Clin pharmacol*, 1996, 36(1): 55.
- [3] Cill PS, Espina BM, Muggia F, et al. Phase I / II clinical and pharmacokinetic evaluation of liposomal daunorubicin[J]. *J Clin Oncol*, 1995, 13(4): 996.
- [4] Frezard F, Michalick MS, Soares CF, et al. Novel methods for the encapsulation of meglumine antimoniate into liposomes[J]. *Braz J Med Biol Res*, 2000, 33(7): 841.
- [5] Desormeaux A, Bergeron MG. Liposomes as drug delivery system: a strategic approach for the treatment of HIV infection[J]. *J Drug Target*, 1998, 6(1): 1.
- [6] Postma NS, Boerman OC, Oyen WJ, et al. Absorption and biodistribution of ¹¹¹Indium-labelled desferrioxamine (¹¹¹In-DFO) after subcutaneous injection of ¹¹¹In-DFO liposomes[J]. *J Controlled Release*, 1999, 58(1): 51.
- [7] Pak CC, Erukulla RK, Ahl PL, et al. Elastase activated liposomal delivery to nucleated cells[J]. *Biochem Biophys Acta*, 1999, 1419(2): 111.
- [8] Anderson KE, Stevenson BR, Rogers JA. Folic acid PEO-labelled liposomes to improve gastrointestinal absorption of encapsulated agents[J]. *J Controlled Release*, 1999, 60(2-3): 189.
- [9] Kimura T, Kurosawa H, Goto H. Oxygen carrying capacity and oxygen supply rate of artificial oxygen carrier, Neo Red Cell (NRC) [J]. *Artif Cells Blood Substit Immobil Biotechnol*, 1998, 26(5-6): 455.
- [10] 全东琴, 苏德森, 顾学裘. 药物载体空白脂质体的制备及性质的研究[J]. *沈阳药科大学学报*, 1999, 16(3): 160.
- [11] Kim IS, Choi HG, Choi HS, et al. Prolonged systemic delivery of streptokinase using liposome[J]. *Arch Pharm Res*, 1998, 21(3): 248.
- [12] Ng KO, Zhao L, Lin Y, et al. The effects of polyethylene glycol (PEG)-derived lipid on the activity of target-sensitive immunoliposome[J]. *Int J Pharm*, 2000, 193(2): 157.
- [13] Shimizu K, Maitani Y, Takayama K. Formulation of liposomes with soybean derived sterylglucoside mixture and cholesterol for liver targeting[J]. *Biol Pharm Bull*, 1997, 20(8): 881.
- [14] Hayashi H, Kono K, Takagishi T. Temperature sensitization of liposomes using copolymers of N-isopropylacrylamide[J]. *Bioconjug Chem*, 1999, 10(3): 412.
- [15] Duzgunes N, Pretzer E, Simoes S, et al. Liposome-mediated delivery of antiviral agents to human immunodeficiency virus infected cells[J]. *Mol Membr Biol*, 1999, 16(1): 111.
- [16] Saari M, Vidgren MT, Koskinen MO, et al. Pulmonary distribution and clearance of two beclomethasone liposome formulations in healthy volunteers[J]. *Int J Pharm*, 1999, 181(1): 1.

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• 药物不良反应 •

葛根素致血管神经性水肿 1 例

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1 临床资料

患者, 男, 81a, 在我院治疗与养老已 4 年, 既往诊断冠心病已 10 年。无药物过敏史。反复多次心电图示: 心房纤颤。近 2d 患者主诉头晕、心慌、气短。查体: T 36.7℃, R 20 次/min, P 平均 80 次/min, BP 20/12 kPa(150/90mmHg), 双肺未闻及干湿性啰音, 心律明显不齐, 心音强弱不等, 心尖部可闻及 II 级收缩期吹风样杂音。心电图示: 心房纤颤。给予葛根素 200mg 加入 5% 葡萄糖注射液 250ml g.d, iv gtt, 24h 后患者自感到双手、眼睛有些发痒, 未在意, 也未告诉医护人员。48h 后患者眼睛痒、痛难

忍, 面部、双手肿胀感, 急忙叫护理人员。医生检查: 患者双眼睑充血、水肿, 面部、双手潮红、水肿、无皮疹。立即停用葛根素, 给予地塞米松、氯苯那敏、维生素 C 抗过敏, 4h 后患者病症减轻, 3d 后症状完全消失。

2 讨论

葛根素是目前治疗心脑血管疾病临床应用较为广泛的药物, 此例患者出现的不适症状是葛根素引起的药物变态反应, 由于及时停药并应用糖皮质激素类药物及抗过敏药物治疗, 即告痊愈。

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