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A study to induce brain glioma with N-ethyl-N-nitrosourea in rats

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Abstract In order to induce brain glioma, transplacental and subcutaneous injections of N-ethyl-N-nitrosourea (ENU, 60 mg/kg body weight) were given to the Wistar rats in late gestational stage and of 3 days of age. The rats were followed up until the end of the 12th month after drug administration. The rate of total tumor formation was 73.2% and 68.3% and that of brain glioma was 65.9% and 63.4% respectively. Histologically, the main types of glioma were mixed oligodendro-astrocytoma and oligodendroglioma. The tumors exhibited the microfocal, multifocal and mixed features with focal and/or diffuse proliferation of glial cells. These findings indicate that the 2 rat models of glioma induced with synthetic N-ethyl-N-nitrosourea were successful and provide a reliable approach for the study of the pathogenesis of cerebral glioma. In addition, the significance of the proliferation of focal glioblasts in the genesis of cerebral glioma was discussed.

Key words glioma/CI; N-ethyl-N-nitrosourea; disease models, animal; rats

幼儿巨大喉乳突状瘤一例

A case of child large laryngeal papilloma

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患儿男性,4岁。鼾声响4年,声嘶伴呼吸费力半年,加重2周以喉部新生物于1993年4月8日入院。患儿出生后不久偶然发现腭部有一赘生物,睡眠时鼾声比同龄婴儿响。一岁时腭部赘生物已长至黄豆大。院外曾行赘生物切除,组织病理报告为腭部乳突状瘤。手术后鼾声未减。1992年10感冒后出现声音嘶哑,活动后有呼吸困难和喉鸣,睡眠时鼾声加重。经一般治疗声嘶无改善,近二周出现明显吸气性呼吸困难的喉鸣,鼾声加重。睡眠时有呼吸暂停现象,并经常惊醒。

家族中无类似疾病史。其母妊娠期无异常。体格检查:发育正常,一般情况好。周身皮肤无异常包块。鼻翼扇动,吸气时可见明显"三凹"体征。心,肺,肝,脾未发现异常。间接喉镜下见喉前庭有巨大新生物,浅红色,表面粗糙不平,声门被新生物覆盖。入院诊断:喉新生物(性质待诊)。喉梗阻Ⅱ°。入院后于4月11日晚22点30分,突然出现Ⅲ°呼吸困难。患儿烦躁不安,嘴唇紫绀,大汗淋漓,不能平卧。即刻给予吸氧并行紧急气管切开

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Changes of plasma PGE_2 level and its significance in severely burned patients

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Abstract The plasma level of PGE_2 and serum levels of C_{3C}, C_4, IgA and IgG were determined in 24 cases of severe burn injury with agar gel single diffusion and immunological analysis. It was found that along with the development of postburn immunosuppression, severe infection and MSOF, there was marked decrese of serum C_{3C}, C_4 and immunoglobulin especially in cases complicated with MSOF. Plasma PGE_2 level was also markedly decreased in cases with MSOF and severe systemic infection. There was a positive correlation between the decrease of plasma PGE_2 and the development of severe systemic infection and MSOF, which supports the hypothesis that PGE_2 seems to play a role of immunoprotection not immunosuppression in burn injury.

Key words prostaglandins E/BL; burns; multiple organ failure

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术。4月22日在全麻下联合径路施行新生物切除术。先行颈部环甲膜平面横行切口,切开环甲膜发现新生物1.5 cm×1.5 cm×1.0 cm大小。基底部占右侧声带后4/5。新生物垂于声门下。巨大新生物阻塞声门裂。即从环甲膜切口处与麦氏喉镜下联合径路,完全切除肿瘤。病理报告为喉乳突状瘤。术后鼾声完全消失。5月3日堵管出院。1993年10月入院检查喉部未见新生物复发,堵管后无呼吸困难,即拔管出院。术后随访8个月,情况良好。

关键词 喉肿瘤;乳头状瘤
中图法分类号 R739.65

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