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Effects of PMN, an activator of protein kinase C, on free calcium in cultured rat neurons*

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Abstract Objective: To explore the mechanism of participation of activated protein kinase C (PKC) in damaging the neurons. Methods: The neurons dissected from the neonatal Wistar rats were cultured to observe the effects of PMN, an activator of PKC, on changes of intraneuronal free calcium and neuronal toxic rate. Results: PMN could markedly increase the content of intraneuronal free calcium and the neuronal toxic rate. Conclusion: The activation of PKC causes the damage of the neurons through mediating accumulation of intraneuronal free calcium.

Key words protein kinase; intraneuronal free calcium; neuronal injury; rat

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唇裂术后5天呼吸道梗阻一例

Report case of respiratory tract obstruction 5 days after repairment of the clefe lip

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1 临床资料

患儿,男性, 1岁。因上唇裂开要求整复入院,诊断为双侧先天性唇腭裂(III°)。入院后查体无阳性征、无哮喘病史;常规实验室检查未见异常。于1996年8月28日在气管插管全麻下行双侧唇裂整复术。麻醉复苏缓慢,体温38℃~40℃左右,生命体征平稳, 10 h后清醒。术中及术后检查无误吸血凝块。术后第5天早晨8时20分,患儿突然出现呼吸困难,面唇部紫绀、窒息。经迅速吸痰、采取头侧卧位后,患儿出现呕吐,内容物似蛋花样。经吸痰、给氧后症状缓解。手术后10 d痊愈出院。

2 讨论

呼吸道意外是唇裂整复术后的严重并发症,但术后5 d出现呼吸道意外却罕见[1]。本例患儿在突发性呼吸困难前有一明显地后仰动作。由于患儿术后一直食用牛奶制品,且食用次数多、浓度高,而胃蛋白酶对蛋白质的消化不完全,从而使未消化蛋白质凝结沉积于胃,当发生体位变化时,使胃内容物倒流于食管,误吸后致上呼吸道梗阻。术后第5天出现并发症往往给诊断带来一定困难。因此要求护理人员及其家属,应对唇裂术后患儿的活动幅度严格控制,密切加以观察,并在饮食方面加以调配,不宜食用单一高蛋白食物,这样的严重并发症是可以预防的。

关键词 唇裂;呼吸道梗阻
中图法分类号 R782

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