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(收稿:1991-08-08;修回:1992-06-19)

A sduty on changes of hepatic energy metabolism and their management in acute obstructive cholangitis in rats

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Abstract Mitochondrial respiratory rate,respiratory control rate (RCR),oxidative phosphoryiation efficiency (ADP/O),and hepatic ATP content were determined in rats under 5 conditions including acute obstructive cholangitis (AOC),bile duct ligation (BDL),verapamil pretreatment in AOC (VET),dexamethasone pretreatment in AOC (DET),and sham operation (SO). It was found that mitochondrial respiratory rate especially its state 4 phase was significantly increased and RCR,ADP/O,and ATP were significantly decreased at 6th hour after AOC and at 24th after BDL. These changes occurred earlier and more dramatically in AOC than in BDL. Pretreatment with verapamil or dexamethasone in AOC could minimize the changes of RCR,ADP/O and ATP in varying intervals.

The findings indicate that AOC and BDL can both result in severe functional impairment of the mitochondria of hepatocytes and verapamil and dexamethasone exert effective protection on the mitochondrial functions of respiration and energy metablism.

Key words cholangitis;mitochondrium;verapamil;dexamethasone

外固定器治疗胫腓骨开放性骨折的护理

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胫腓骨开放性骨折是一种常见的开放性损伤。传统治疗是复位、石膏固定、骨牵引或开放复位内固定。由于固定时间长、易感染、骨愈合慢,故目前多倡用外固定器治疗。因其具有复位和固定的特点,不会进一步破坏局部血液循环,且便于早期功能锻炼[1]。我科自 1983 年至 1990 年,采用半环槽式外固定器治疗胫腓骨开放性骨折 58 例,疗效满意。护理工作中,以心理护理贯穿始终,重点预防感染和加强功能锻炼。现将护理体会报告如下:

1 临床资料

本组 58 例,男 47 例,女 11 例;年龄 8～64 岁,平均 29 岁。车祸 22 例、跌伤 20 例、砸伤 7 例、机器绞伤或挤压伤 6 例、爆炸伤 3 例。胫腓骨上 1/3 骨折 6 例、中 1/3 10 例、中下 1/3 42 例。均为不稳定性骨折,多

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Effects of noradrenaline, isoptin, prostaglandin E and indomethacin on ureteral dynamics and musculoelectrical activities in dogs

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Abstract The effects of noradrenaline, isoptin, prostaglandin E and indomethacin on the dynamics and the muscloelectrical activities of the ureter were sutdied in dogs. It was found that noradrenaline exerted excitation on the smooth muscle of the upper ureter, isoptin could remarkably reduce both the electrical and contractile activities of the ureter, prostaglandin E could intensify the activeites of the ureter, and indomethacin could the inhibit the synthesis of intrinsic prostaglandins and in turn relax the smooth muscle of the ureter.

Key words ureter; urodynamics; musculoelectrical activity; norepinephrine; prostaglandin; indomethacins

(上接 436 页)

伴有不同程度的皮肤撕脱或软组织损伤。

2 护理体会

2.1 心理护理

本组病人多为突然受伤，思想上毫无准备。患者急躁易怒，焦虑不安，迫切希望了解伤情和预后，担心残废，影响生活、工作及婚姻，对前途丧失信心，甚至有轻生念头。有的因畏痛拒绝打针、换药等。因此，作好心理护理有不可忽视的作用，直接影响康复。我们以沉着冷静、温和有礼的姿态，熟练准确的技术争取病人信任；主动交谈，耐心倾听，给予深切的同情、真挚的安慰和适当的解释、保证，消除顾虑，树立信心，积极配合治疗和锻炼。

2.2 预防感染

早期彻底清创、妥善闭合伤口及术后应用抗生素是预防感染的关键[2]。观察用药后效果，伤口有无渗出；如渗出较多，患肢剧痛，应报告医生及时检查切口及外固定穿针处有无炎症反应等伤情变化，及时处理。

2.3 功能锻炼

半环槽式外固定器固定牢靠，膝、踝关节不受制，便于早期功能锻炼，以改善血液循环，促进骨组织生长愈合，防止肌肉萎缩和关节僵硬[3]。

麻醉消失后即嘱病人收缩股四头肌，活动膝、踝关节；术后 4～9d 下床原地站立、下蹲、抬腿，逐渐扶双拐行走。迈步时伤肢在前，全足着地，负重由轻到重，步幅由小及大，逐渐增加活动度和时间，以伤肢无不适为度。应有专人指导和协助，防跌倒发生移位或骨折。

关键词 胫骨骨折/护理；腓骨；外固定器

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(收稿：1992-03-03；修回：1992-06-19)

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