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(收稿: 1998-04-10;修回: 1998-09-10)
(编辑 冷怀明)

Effects of perindopril on endothelial function in patients with diabetic nephropathy

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Abstract Objective: To investigate the effects of perindopril on endothelial function in the early stage of diabetic nephropathy. Methods: Forty-four cases of non-insulin-dependent diabetes mellitus with microalbuminuria and normotension were randomized into the routinely treated group (RG) and perindopril-treated group (PG). Results: After 8-week andministration of perindopril, the plasma ET level was significantly decreased and plasma 6-k-$PGF_{1\alpha}$ concentration markedly increased in the PG as compared with the RG ($P < 0.01$). Conclusion: Perindopril might protect renal function through improving endothelia function during diabetic nephropathy.

Key words diabetic nephropathy; perindopril; endothelial cell

母婴 Rh血型不合换血前后检测体会

An experience with the examination of blood type during exchange transfusion in Rh-blood group incompatibility between mother and infant

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我们在 1997年检测一例母婴 Rh血型不合,抗-D效价高达 1∶256,经换血等治疗成功,现报道如下。

1 病例摘要

产妇李某,女, 33岁,汉族,患小儿麻痹后遗症致残, 7岁时行双下肢跟腱移植术,术中有输血史,量不详。妊娠史,孕 3产 0剖 1, 1990年 4月 24日剖腹产一男婴,患新生儿溶血症核黄疸夭折, 1992年又人工流产 1次, 1997年 3月又怀孕 5个月,来我院做产前预测,患者体内有同种血型抗体抗-D,抗体效价逐渐升高达 1∶256,于 7月 3日收治入院, 7月 10日 38周剖腹产娩出一女婴,诊断为新生儿母婴 Rh血型不合溶血病,立即送小儿科治疗。体重 2.45 kg,发育正常,足月小样儿。新生儿溶血病 3项试验阳性,总胆红素 145.9 μmol/L,符合换血指征。于当日 13∶20给小儿行换血术,分别在换血 100、150、200、300 ml留取标本作血型血清学检测, 17∶50回病房治疗,于 7月 22日痊愈出院。

2 血型血清学检查

红细胞定型:

产妇李某血型 O ccddee,其丈夫血型 O CCDee

产妇血清抗体特异鉴定同 CCDee, ccDEE用木瓜酶法,抗球蛋白法凝集,同 Ccddee ccddE及自身不凝集。

患儿血型血清学检测:① 红细胞血型: O型 Rh血型不能鉴定。② 直接抗球蛋白试验 4+。③ 游离抗体鉴定,木瓜酶法、抗球蛋白法检测,抗-D效价均为 1∶8 ④ 红细胞放散试验 (56℃热放散),患儿红细胞放散液,同 CCDee ccDEE自身细胞发生凝集 3+,不凝集 Ccddee及 ccddE谱细胞。

患儿换血后血型血清学检测,见表 1。

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(收稿: 1998-06-18;修回: 1998-08-05)
(编辑　冷怀明)

Studies on the pathological changes of platysma myocutaneous flap for cervical esophageal repairment in dogs

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Abstract **Objective**: To investigate the healing process of the anastomosis of the esophagus and the platysma myocutaneous flap (PMCF) and the pathological changes of the PMCF in the esophagus after the PMCF was used to repair the cervical esophagus. **Methods**: After the model of PMCF repairing defect of the cervical esophagus was established in dogs, the pathological changes of the PMCF in the esophagus were observed with optical and electron microscopy and the wound breaking strength of the cervical incision and anastomosis were determined. **Results**: The healing time of the anastomosis is 1~2 weeks later than that of the cervical incision. In 3 and 6 months after the operation, collagen deposition was increased at the anastomosis. The PMCF kept on keratinizing and hair growing. **Conclusion**: The healing time of the anastomosis is delayed in the early stage and the collagen deposition is abnormally increased at the anastomosis in the late stage after operation. The flap has no significant changes in 6 months after operation.

Key words platysma myocutaneous flap; esophagus; dog

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表 1　换血不同量及时间血清中抗-D效价

试验项目	换血量(ml)				换血时间抗-D效价(*t*/d)			
	100	150	200	300	1	4	6	11
直接抗球蛋白	3+	2+	1+	0	0	±	0	0
木瓜酶法效价	8	4	4	2	1+	2	0	0
抗球蛋白法效价	8	4	4	2	1+	4	0	0

患儿血清总胆红素检测,7月 10日到 21日共检测 5次,10日为 145.9μmol/L,14日为 161μmol/L,以后每次下降均很明显,21日为 34μmol/L.

3　讨论

随着科学技术的发展,人民文化素质提高,计划生育政策的落实,一胎率的提高,Rh血型抗体引起严重新生儿溶血病已不多见,该患者 7岁时因做跟腱移植手术而输血,因此考虑病人为第一次输血所致敏,引起第一胎即发生核黄疸而死亡,抗体效价抗球蛋白法达 128,在 5年中没有怀孕,本次怀孕再次刺激机体记忆细胞,导致抗体效价迅速上升,抗体效价高达 1∶256,有报道对严重的 HDN患儿及早采取换血治疗,是防止发生核黄疸的有效措施[1],因此提请临床提早终止妊娠,准备好同母亲 Rh血型相合的血液,行血液置换术.

3项试验阳性未结合胆红素 129.9μmol/L,高于临界线 1倍多,符合换血指征,在产后 4h即行换血术. 换出血液作梯度检测,到 300 ml直接抗球蛋白试验即为阴性,明显低于有关资料的报道[2,3],第 2天直接抗球蛋白及游离抗体均为阴性,但是换血第 4天,直接抗球蛋白及游离抗体均为阳性反应,胆红素检测也有明显升高,经反复少量多次输血,到第 6天直接抗球蛋白及游离抗体均为阴性,于 12 d出院,100 d来院做儿保检查,除体重偏轻外,其它发育正常.

关键词　Rh血型;新生儿溶血病;换血疗法
中图法分类号　R457.11

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(收稿: 1998-01-14;修回: 1998-07-15)
(编辑　王　红)

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