RENAL DISEASE AND LIVER TRANSPLANTATION IN FAMILIAL AMYLOIDOTIC

POLYNEUROPATHY

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INTRODUCTION AND AIMS

Portuguese familial amyloidotic polyneuropathy (FAP) type I is a systemic amyloidotic disease due to an amyloidogenic transthyretin (TTR) protein, in which an amino acid substitution of methionine for valine at position 30 of TTR molecule is present¹.

Although peripheral nervous system is primary affected, renal involvement is common. In this disease, all patients had amyloid deposits in the kidney, but only one third will develop CKD and 10% will progress to stage 5¹.

Because more than 90% of the mutant protein is produced in the liver, orthotopic liver transplantation (OLT) is the definitive treatment for the disease.

The aims of this study was to evaluate the incidence of renal dysfunction post OLT and its impact on patient's survival.

POPULATION AND METHODS

This was a retrospective study of 185 FAP patients submitted to 217 OLT in our unit, between September 1992 and March 2007.

Clinical data: age at transplantation, gender, weight, presence of diabetes mellitus, hypertension, hepatitis B and C infection, renal dysfunction pre transplant (RD pre), immunosuppression (ISS) and necessity for acute renal replacement therapy (RRT).

Laboratorial data: serum creatinine (Scr) values and/or glomerular filtration rate (GFR), determined by Cockcroft-Gault equation, at the last observation pre transplantation and at days 1, 7 and 21, month 6 and every year post transplantation.

