Transplantation for alcoholic liver disease: lessons from the explant?

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Outcome of liver transplantation for patients with end stage alcoholic cirrhosis is not different from those with superimposed alcoholic hepatitis

Orthotopic liver transplantation for alcoholic cirrhosis is now well established, with good outcome in terms of patient and graft survival. Transplantation for alcoholic hepatitis however is not a recognised indication in the UK. All centres in the UK require a period of abstinence before listing for transplantation, although not all have input from psychiatrists experienced in alcohol dependence.

The article by Tomé et al reports on the outcome of liver transplantation for alcoholic cirrhosis in a single centre from Spain that required abstinence for three months prior to transplantation. The explanted liver was examined for histological features of alcoholic hepatitis—focal necrosis, neutrophilic infiltrate, Mallory’s hyaline degeneration, and liver steatosis. Patients with histological alcoholic hepatitis were compared with alcoholic cirrhotics without these features and found to have no significant outcome differences with respect to survival and recidivism.

The findings of alcoholic hepatitis on explant can be interpreted in two ways. The histological features had not yet disappeared following cessation of alcohol or patients were indeed continuing to drink while claiming abstinence. The period of abstinence given for the group with alcoholic hepatitis was a median of 15 months, which suggests that some patients were indeed drinking while claiming to be abstinent. However, some of those around the three month period of abstinence may well have had some recoverable liver function. Patients with alcoholic hepatitis on explant were more likely to have Child’s C cirrhosis compared with those who did not. In both groups there appeared to be a sizeable number of patients with good liver function with one in six patients having Child’s A cirrhosis. This is different to the experience in centres in the rest of Europe where at least 70% had Child’s class C cirrhosis and none had Child’s class A. It follows therefore that some patients may well have recovered liver function if alcoholic hepatitis had been allowed to recover fully. In our own centre the occurrence of alcoholic hepatitis in the explanted liver is extremely rare. We recommend a period of abstinence of six months, which is a compromise between the reported extremes of recoverable liver function—three months and 12 months.

However, the major issue in liver transplantation for alcoholic liver disease is long term patient and graft survival. Recurrent disease is a very common situation in liver transplantation. Diseases such as hepatitis C cirrhosis recur rapidly in approximately 20% of patients within five years. In this study, the 10% rate of recidivism did not differ between those patients with alcoholic hepatitis on explant and those without. The rate of recurrent disease was less than this, with 7% having histological evidence of recurrence and no graft losses. It would have been interesting to know if the two patients who drank excessively causing graft damage were in the group with alcoholic hepatitis but this is not made clear as there is evidence suggesting that steatosis and Mallory bodies in the explanted liver is a poor prognostic feature as regards recurrent alcoholic hepatitis and graft loss.

Acute alcoholic hepatitis, as described by Maddrey, defines a syndrome associated with hepatomegaly, neutrophilia, pyrexia, jaundice, and prolonged prothrombin time in the context of recent excessive alcohol intake. This syndrome often leads to renal failure and mortality is high. The clinical syndrome of acute alcoholic hepatitis is different from the histological alcoholic hepatitis presented in this study as the authors are careful to point out. Liver transplantation for acute alcoholic hepatitis cannot be substantiated on the basis of this study. This study does however highlight the excellent outcome of patients transplanted for alcoholic liver disease and that recurrent disease is relatively rare even in patients who may be economical with the truth at
the time of assessment. In common with other centres, we recommend a policy of active involvement of psychiatrists in the transplant assessment and the application of a contract stipulating the patient's intention to remain abstinent.

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