Abstract

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ORIGINAL ARTICLE

Effect of Antiviral Chemoprophylaxis on Adverse Clinical Outcomes Associated With Cytomegalovirus After Liver Transplantation

WALTER C. HELLINGER, MD; HUGO BONATTI, MD; VICTOR I. MACHICAO, MD; JOSEPH D. YAO, MD; LISA M. BRUMBLE, MD; SALVADOR ALVAREZ, MD; STEPHEN D. WEIGAND, MS; ROLLAND C. DICKSON, MD; DENISE M. HARNOIS, DO; JAMES R. SPIVEY, MD; WOLF H. STAPELFELDT, MD; CHRISTOPHER B. HUGHES, MD; JUSTIN H. NGUYEN, MD; JEFFERY L. STEERS, MD

Individual reprints of this article are not available. Address correspondence to Walter C. Hellinger, MD, Division of Infectious Diseases, Mayo Clinic College of Medicine, 4500 San Pablo Rd, Jacksonville, FL 32224 (e-mail: helling@mayo.edu).

OBJECTIVE: To assess the association between cytomegalovirus (CMV) serology of donor and recipient and adverse outcomes after liver transplantation in the era of effective antiviral chemoprophylaxis.

PATIENTS AND METHODS: We performed a retrospective cohort study of 193 consecutive patients undergoing their first liver transplantation between February 1998 and July 2000 with targeted and preemptive ganciclovir chemoprophylaxis. Patients were divided into 4 groups by CMV serology of donor and recipient: donor+/recipient–; donor+/recipient+; donor+/recipient+; and donor+/recipient–. Survival to the end points of retransplantation, death, or survival to 1 year after transplantation (whichever occurred first) was assessed. Rates of bacterial, fungal, and CMV infection and of CMV disease were recorded and compared.

RESULTS: No significant differences were observed in the rates of retransplantation, death, or survival to 1 year among the 4 groups of patients. Despite significantly higher rates of CMV infection in the donor+ groups, there were no differences in the rates of bacterial or fungal infection or of CMV disease. Rejection occurred least frequently in the donor+/recipient– group.

CONCLUSION: The adverse effects of CMV on outcomes after liver transplantation have been diminished in the era of effective antiviral chemoprophylaxis.


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