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Researchers report that **low levels of sodium**, known as hyponatremia, prior to **transplantation** does not

increase the risk of death following liver transplant. Full findings are published in

[Liver Transplantation](#)

, a journal of the American Association for the Study of

Liver Diseases

and the International Liver Transplantation Society.

Medical evidence shows that low sodium concentration is common in patients with end stage liver disease (ESLD), with roughly half of those with cirrhosis having sodium levels below the normal range of 135-145 mmol/L. Moreover, previous research suggests that hyponatremia is linked to complications including bacterial infections, kidney failure and encephalopathy, and increases mortality in patients with ESLD. Following liver transplantation sodium levels will return to

normal.

“There is much debate within the transplant community about whether to incorporate measures of serum sodium in the organ allocation system in the U.S.,” explains lead author Dr. W. Ray Kim from Stanford University in

Calif., and formerly with the Mayo Clinic where the research took place. “Understanding the impact of sodium concentrations in patients prior to and following liver transplantation is an important contribution to this debate.”

Using data from the Organ Procurement and Transplantation

Network (OPTN) researchers identified 19,537 patients 18 years of age or older who received a liver transplant in the U.S. between 2003 and 2010. Subjects were split into three groups: those with hyponatremia (sodium levels less than 130 mEq/L); normal sodium levels (serum sodium between 131-145mEq/L); and hypernatremia (high sodium levels great than 145mEq/L).

“While our findings confirm that low sodium levels prior to transplant were a strong risk factor for waitlist mortality it was not associated with higher death risk following liver transplantation,” concludes Dr. Kim. “Our data suggests that using serum sodium levels to determine organ allocation priority will not impact survival following a liver transplant.”

Low Sodium Levels Pre-Transplant Does Not Affect Liver Transplant Recipient Survival

Écrit par Didier Poli

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