

Sodium bicarbonate prophylaxis linked to lower mortality

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(HealthDay)—For patients undergoing coronary angiography, sodium

bicarbonate prophylaxis for contrast-associated nephropathy (CAN) is associated with reduced long-term mortality, according to research published in the Nov. 15 issue of *The American Journal of Cardiology*.

Jeremiah R. Brown, Ph.D., from the Dartmouth Institute for Health Policy and Clinical Practice in New Hampshire, and colleagues conducted an individual patient data meta-analysis from [randomized controlled trials](#) to examine the correlation between [sodium bicarbonate](#) prophylaxis for CAN and mortality. Individual patient data sets were obtained for seven of 10 eligible trials and time-to-event data were imputed for the three remaining trials; data were included for 2,764 participants.

The researchers found that sodium bicarbonate correlated with lower mortality than [sodium chloride](#) at one year (hazard ratio, 0.61). Periprocedural sodium bicarbonate correlated with reduced incidence of CAN (relative risk, 0.75); for up to one-year mortality, there was a significant interaction between the impact on mortality and occurrence of CAN (hazard ratio, 5.65).

"Periprocedural intravenous sodium bicarbonate seems to be associated with a reduction in long-term mortality in patients undergoing [coronary angiography](#) or other intra-arterial interventions," the authors write.

Several authors disclosed financial ties to the pharmaceutical industry.

More information: [Full Text \(subscription or payment may be required\)](#)

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