

Congenital heart disease surgery tied to later hypertension

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(HealthDay)—The incidence of hypertension is 12 times higher in

children with surgical repair of congenital heart disease (CHD) versus healthy, matched children without CHD, according to a study published online April 8 in *JAMA Network Open*.

Jason H. Greenberg, M.D., from the Yale University School of Medicine in New Haven, Connecticut, and colleagues used Canadian administrative data to identify 3,600 [children](#) with surgical repair of CHD and 36,000 matched children without CHD.

The researchers found that during 9.8 years of follow-up, 12.4 percent children with surgical repair of CHD developed hypertension versus 1.1 percent in the matched control group (incidence rate of hypertension for children with [surgery](#) versus controls: 141.3 versus 11.1 per 10,000 person-years). Children with index surgical dates when aged younger than 150 days had a higher risk for hypertension compared with those who had surgical dates at an age of 150 days or older. Additionally, a higher risk for hypertension was seen in children with more complex surgery, particularly children with [hypoplastic left heart syndrome](#) (49 of 140; 35.0 percent), and in children who received dialysis during the index cardiac surgery hospitalization (22 of 126; 17.5 percent; hazard ratio, 1.67).

"For now, we recommend that children who have cardiac repair as infants be monitored more closely for [hypertension](#) throughout their lives," a coauthor said in a statement.

More information: [Abstract/Full Text](#)

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