

# Hybrid closed-loop therapy beneficial for children with type 1 diabetes

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a hypoglycemic range (



(HealthDay)—For children and adolescents with type 1 diabetes, hybrid closed-loop (HCL) therapy improves glycemic control and quality of life, according to a study published online Oct. 11 in *JAMA Pediatrics*.

Mary B. Abraham, Ph.D., from the University of Western Australia, and colleagues examined the percentage of time spent in the target glucose range using HCL versus current conventional therapies in a six-month randomized clinical trial including children and adolescents with type 1 diabetes. Data were included for 135 patients: 68 randomly assigned to the [control group](#) and 67 to the HCL group.

The researchers found that in the intention-to-treat analyses, there was an increase in time in range (within a glucose range of 70 to 180 mg/dL) from baseline to the end of the study, from 53.1 to 62.5 percent in the HCL group and from 54.6 to 56.1 percent in the control group (mean adjusted difference, 6.7 percent). The time patients spent in

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