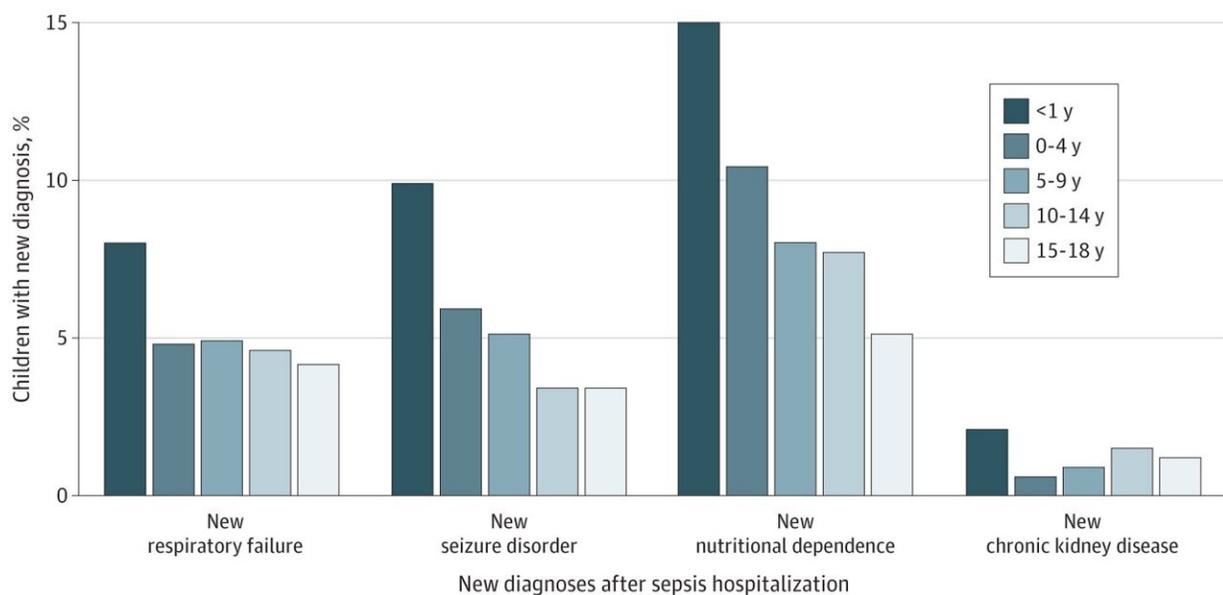


Children commonly face new, worsening health problems months after critical illness from sepsis

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Development of New Target Conditions by Age. Overall, new chronic respiratory failure, seizure disorder, supplemental nutritional dependence, and chronic kidney disease occurred at the highest proportion among children younger than 1 year. Credit: *JAMA Pediatrics* (2022). DOI: 10.1001/jamapediatrics.2022.3554

Even months after critical illness for sepsis, children are at risk for new or worsening medical conditions, a study suggests.

One in five children in a national cohort either developed or experienced progressing disease within six months of leaving the [intensive care unit](#) for sepsis, according to the research in *JAMA Pediatrics*.

Researchers compared data from 5,150 children who received ICU care for sepsis to 96,361 who experienced critical illness from other conditions. Those with sepsis were more likely to later experience chronic respiratory failure, problems requiring nutritional dependence and chronic kidney disease. Children in both groups were also at risk of developing a seizure disorder.

"Children who survive severe sepsis are at risk of long-term health consequences that impact their quality of life and future health needs," said lead author Erin Carlton, M.D., MSc., a pediatric intensivist at University of Michigan Health C.S. Mott Children's Hospital.

Not all children who recover from [critical illness](#) from sepsis are impacted equally, the study suggests. Those with pre-existing illnesses were three times more likely to experience new or worsening disease.

Meanwhile, [younger children](#)—particularly those under age one—were twice as likely to require [supplemental nutrition](#), such as needing a feeding tube, or develop a new seizure condition such as epilepsy, than [older children](#).

Every year, 70,000 children in the U.S. are hospitalized with sepsis, a life-threatening condition that occurs when a body's response to infection goes into overdrive, causing damage to vital organs. It is a leading cause of death among children and newborns.

"Many children who require critical care for sepsis have debilitating physical, cognitive or emotional challenges long after recovery," Carlton said. "Our findings suggest a need for improved follow up care focused

on identifying and treating new or worsening [medical conditions](#)."

More information: Erin F. Carlton et al, New and Progressive Medical Conditions After Pediatric Sepsis Hospitalization Requiring Critical Care, *JAMA Pediatrics* (2022). [DOI: 10.1001/jamapediatrics.2022.3554](#)

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