14.4 percent of kids' scoliosis surgeries have in-hospital complications

June 24 2014

Image courtesy of Blausen Medical

(HealthDay)—From 2000 to 2009, the overall in-hospital complication rate for pediatric patients with idiopathic scoliosis who underwent spinal fusion was 14.4 percent, with respiratory complications having the highest rate, according to a study published June 15 in *Spine*.

Hiroyuki Yoshihara , M.D., Ph.D., from SUNY Downstate Medical Center in Brooklyn, N.Y., and Daisuke Yoneoka, from the Graduate University for Advanced Studies in Japan, used the Nationwide Inpatient Sample database to identify pediatric patients with idiopathic scoliosis who underwent spinal fusion from 2000 to 2009.

The researchers found that of the 43,983 patients identified, 30.4 percent received a blood transfusion. Over time, predonated autologous blood transfusions decreased, while perioperative autologous blood

transfusions increased over time (P respiratory complications having the highest rate. The respiratory complication rate decreased over time (P = 0.003). Patients with increased Elixhauser Comorbidity Score and those who underwent anterior and posterior fusion had high in-hospital blood transfusion, complication, and mortality rates. Over time, the mean length of hospital stay decreased (P = 0.043).

"A decreasing trend in the respiratory complication rate and reduction in length of hospital stay may indicate better postoperative care," the authors write.

 More information: Abstract
Full Text (subscription or payment may be required)

Copyright © 2014 HealthDay. All rights reserved.

Citation: 14.4 percent of kids' scoliosis surgeries have in-hospital complications (2014, June 24) retrieved 4 May 2024 from
https://medicalxpress.com/news/2014-06-percent-kids-scoliosis-surgeries-in-hospital.html