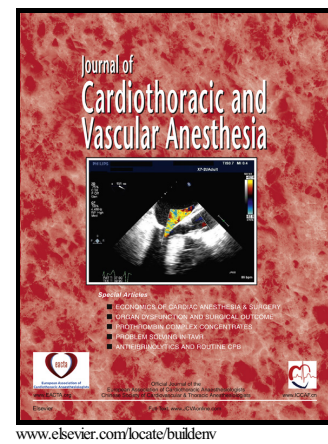


# Author's Accepted Manuscript

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Ethan Y. Brovman, Talora L. Steen, Richard D. Urman



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## Associated Risk Factors and Complications in Vascular Surgery Patients Requiring Post-Operative Reintubation

Ethan Y. Brovman M.D.<sup>1\*</sup>, Talora L. Steen M.D.<sup>1\*</sup>, Richard D. Urman, M.D., M.B.A.<sup>1,2</sup>

Affiliation: <sup>1</sup>Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, 75 Francis Street, Boston, MA; <sup>2</sup>Center for Perioperative Research, Brigham and Women's Hospital, Boston MA.

\*These authors contributed equally to this manuscript.

Corresponding author:  
Richard D. Urman, M.D., M.B.A  
Department of Anesthesiology  
Brigham and Women's Hospital  
Boston, MA USA 02115  
Phone: (617) 732-8222  
Email: rurman@partners.org

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### Abstract

**Objective:** To determine the frequency of reintubation in vascular surgery within 30 days, as well as the associated risk factors and complications.

**Design:** Retrospective Chart Review utilizing data provided by the American College of Surgeons (ACS) National Surgical Quality Improvement Program (NSQIP), 2007-2013 inclusive. Univariate and multivariate analysis of risk factors and outcomes

**Setting:** All institutions participating in the ACS-NSQIP

**Participants:** All patients over the age of 18 undergoing vascular surgery

**Interventions:** Not applicable

**Measurements and Main Results:** We report a reintubation rate of 2.2% amongst vascular surgery patients within the first 30 days. Reintubation was positively associated with increased age, low body mass index, poor functional status, smoking status, chronic obstructive pulmonary disease, congestive heart failure, and increased anesthesia and operative times. In addition, specific procedures were found to have significantly increased rates of reintubation, including bypass surgery, thrombectomy, and open thoracic and abdominal aorta surgery. Reintubation was positively associated with all measured complications, including a quadrupled length of

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