

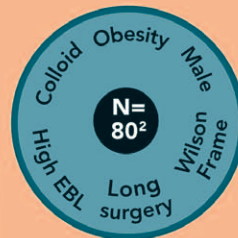
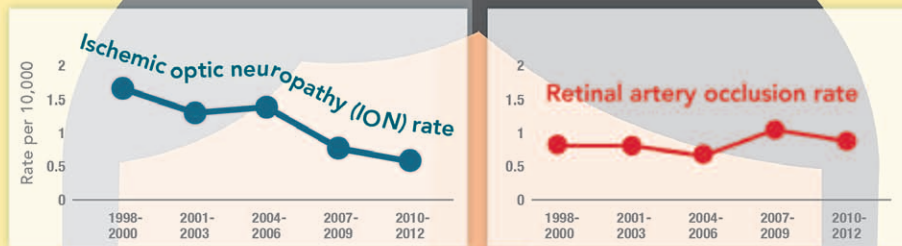
ANESTHESIOLOGY



Keeping an Eye on Perioperative Visual Loss

The rate of visual loss following spinal surgery has changed...

...and common ION risk factors have been identified.^{1,2}



Possible mechanisms for ION:

- Protective estrogen effect
- Interstitial fluid accumulation
- Increased EBL, increased fluid for older patients with complex surgery or obese patients

EBL = estimated blood loss.

Infographic created by Jonathan P. Wanderer, Vanderbilt University School of Medicine, and James P. Rathmell, Brigham and Women's Health Care/Harvard Medical School. Illustration by Annemarie Johnson, Vivo Visuals. Dr. Wanderer is funded by the Foundation for Anesthesia Education and Research, Schaumburg, Illinois, and Anesthesia Quality Institute's Mentored Research Training Grant—Health Services Research, Schaumburg, Illinois. Address correspondence to Dr. Wanderer: jon.wanderer@vanderbilt.edu.

1. Rubin DS, Parakati I, Lee LA, Moss HE, Joslin CE, Roth S. Perioperative visual loss in spine fusion surgery: Ischemic optic neuropathy in the United States from 1998 to 2012 in the Nationwide Inpatient Sample. *ANESTHESIOLOGY* 2016; 125:457-64

2. Postoperative Visual Loss Study Group: Risk factors associated with ischemic optic neuropathy after spinal fusion surgery. *ANESTHESIOLOGY* 2012; 116:15-24