ELSEVIER LICENSE TERMS AND CONDITIONS

Apr 27, 2018

This Agreement between Paul S Pagel ("You") and Elsevier ("Elsevier") consists of your license details and the terms and conditions provided by Elsevier and Copyright Clearance Center.

License Number 4337130221551 License date Apr 27, 2018

Licensed Content Publisher Elsevier

Licensed Content Publication Journal of Cardiothoracic and Vascular Anesthesia

Licensed Content Title Moderate Aortic Valvular Insufficiency Invalidates Vortex Formation

> Time as an Index of Left Ventricular Filling Efficiency in Patients With Severe Degenerative Calcific Aortic Stenosis Undergoing Aortic

Valve Replacement

Licensed Content Author Paul S. Pagel, Brent T. Boettcher, Derek J. De Vry, Julie K. Freed, Zafar

Igbal

Licensed Content Date Oct 1, 2016

Licensed Content Volume 30 5 Licensed Content Issue 6 Licensed Content Pages

Start Page 1260 **End Page** 1265

Type of Use reuse in a journal/magazine

Requestor type author of new work

Intended publisher of new

work

Other

Portion figures/tables/illustrations

Number of figures/tables

/illustrations

1

Format both print and electronic

Are you the author of this

Elsevier article?

Will you be translating? No

Original figure numbers Figure 1

Title of the article Review article

Print This Page

4/27/18, 10:31 AM 1 of 1