### **Accepted Manuscript**

Acute efficacy, safety and long-term clinical outcomes utilizing the second-generation cryoballoon for pulmonary vein isolation in patients with a left common pulmonary vein - A multicenter study

Christian-Hendrik Heeger, MD, Verena Tscholl, MD, Erik Wissner, MD, PhD, FACC, FHRS, Thomas Fink, MD, Laura Rottner, MD, Peter Wohlmuth, PhD; MD, Barbara Bellmann, MD, Mattias Roser, MD, Shibu Mathew, MD, Christian Sohns, MD, Bruno Reißmann, MD, Christine Lemeš, MD, Tilman Maurer, MD, Francesco Santoro, MD, Johannes Riedl, MD, Britta Goldmann, MD, Ulf Landmesser, MD, FESC, Feifan Ouyang, MD, Karl-Heinz Kuck, MD, FESC, FACC, Andreas Rillig, MD, FEHRA, Andreas Metzner, MD

PII: S1547-5271(17)30581-7

DOI: 10.1016/j.hrthm.2017.05.003

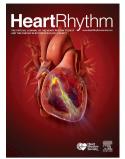
Reference: HRTHM 7150

To appear in: Heart Rhythm

Received Date: 2 February 2017

Please cite this article as: Heeger C-H, Tscholl V, Wissner E, Fink T, Rottner L, Wohlmuth P, Bellmann B, Roser M, Mathew S, Sohns C, Reißmann B, Lemeš C, Maurer T, Santoro F, Riedl J, Goldmann B, Landmesser U, Ouyang F, Kuck K-H, Rillig A, Metzner A, Acute efficacy, safety and long-term clinical outcomes utilizing the second-generation cryoballoon for pulmonary vein isolation in patients with a left common pulmonary vein - A multicenter study. *Heart Rhythm* (2017), doi: 10.1016/i.hrthm.2017.05.003.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



#### ACCEPTED MANUSCRIPT

# Acute efficacy, safety and long-term clinical outcomes utilizing the second-generation cryoballoon for pulmonary vein isolation in patients with a left common pulmonary vein - A multicenter study

Short title: Cryoballoon based PVI in patients with a left common PV

Christian-Hendrik Heeger<sup>1\*</sup>,MD; Verena Tscholl<sup>2\*</sup>,MD; Erik Wissner<sup>3</sup>,MD,PhD,FACC,FHRS; Thomas Fink<sup>1</sup>,MD; Laura Rottner<sup>1</sup>,MD; Peter Wohlmuth<sup>1</sup>,PhD; MD; Barbara Bellmann<sup>2</sup>,MD; Mattias Roser<sup>2</sup>,MD; Shibu Mathew<sup>1</sup>,MD; Christian Sohns<sup>1</sup>,MD; Bruno Reißmann<sup>1</sup>,MD; Christine Lemeš<sup>1</sup>,MD; Tilman Maurer<sup>1</sup>,MD; Francesco Santoro<sup>1</sup>,MD; Johannes Riedl<sup>1</sup>,MD; Britta Goldmann<sup>4</sup>,MD; Ulf Landmesser<sup>2</sup>,MD,FESC; Feifan Ouyang<sup>1</sup>,MD; Karl-Heinz Kuck<sup>1</sup>,MD, FESC,FACC; Andreas Rillig<sup>2\*\*</sup>,MD,FEHRA; and Andreas Metzner<sup>1\*\*</sup>,MD.

\*shared first authorship, \*\*shared last authorship

#### **Corresponding author**

Christian-H. Heeger, M.D. Asklepios-Klinik St. Georg Department of Cardiology Lohmühlenstr. 5 20099 Hamburg, Germany

Phone: ++49-(0)40-1818 854400 Fax: ++49-(0)40-1818 852019 E-Mail: christian.heeger@gmx.net

#### **Conflict of interest disclosures**

CHH received travel grants and speaker's honoraria by St. Jude Medical, Biotronik and travel grants by Medtronic. VT received travel grants from Biotronik, Biosense Webster, St. Jude Medical and participated at the Biotronik EP and Device Fellowship. EW is a consultant to Medtronic. KHK received travel grants and research grants from Biosense Webster, Stereotaxis, Prorhythm, Medtronic, Edwards, Cryocath, and is a consultant to St. Jude Medical, Biosense Webster, Prorhythm, and Stereotaxis. He received speaker's honoraria from Medtronic. BB participated at the Boston scientific EP-fellowship. MR received travel grants, lecture fees or compensations for Advisory Board activities from Biotronik, Boston Scientific, Medtronic, St. Jude Medical and Zoll CMS. UL received travel grants and speaker's honoraria by Abbot and St. Jude Medical. AR received travel grants from Biosense, Hansen Medical and St. Jude Medical and lecture fees from St. Jude Medical and Boehringer Ingelheim and took part at the Boston scientific EP fellowship. AM received speaker's honoraria and travel grants from Medtronic, Biosense Webster and Cardiofocus and took part at the Boston scientific EP fellowship. All other authors have no relevant disclosures.

**Total word count: 4856** 

<sup>&</sup>lt;sup>1</sup>Department of Cardiology, Asklepios Klinik St. Georg, Hamburg, Germany.

<sup>&</sup>lt;sup>2</sup>Department of Cardiology, Charité, Universitätsmedizin Berlin, Campus Benjamin Franklin, Berlin, Germany.

<sup>&</sup>lt;sup>3</sup>Division of Cardiology, University of Illinois at Chicago, USA.

<sup>&</sup>lt;sup>4</sup>Department of Cardiology, Asklepios Klinik Harburg, Hamburg, Germany

#### Download English Version:

## https://daneshyari.com/en/article/5603323

Download Persian Version:

https://daneshyari.com/article/5603323

<u>Daneshyari.com</u>