## Author's Accepted Manuscript

Comparison of hemodynamic parameters treatment-naïve and pretreated patients with pulmonary arterial hypertension in the randomized Phase III PATENT-1 study

Nazzareno Galiè, Friedrich Grimminger, Ekkehard Grünig, Marius M. Hoeper, Marc Humbert, Zhi-Cheng Jing, Anne M. Keogh, David Langleben, Lewis J. Rubin, Arno Fritsch, Neil Davie, Hossein-Ardeschir Ghofrani



http://www.jhltonline.org

PII: S1053-2498(16)30472-7

DOI: http://dx.doi.org/10.1016/j.healun.2016.12.012

Reference: HEALUN6421

To appear in: Journal of Heart and Lung Transplantation

Cite this article as: Nazzareno Galiè, Friedrich Grimminger, Ekkehard Grünig, Marius M. Hoeper, Marc Humbert, Zhi-Cheng Jing, Anne M. Keogh, David Langleben, Lewis J. Rubin, Arno Fritsch, Neil Davie and Hossein-Ardeschir Ghofrani, Comparison of hemodynamic parameters in treatment-naïve and pretreated patients with pulmonary arterial hypertension in the randomized Phase study, Journal of Heart and Lung Transplantation, PATENT-1 http://dx.doi.org/10.1016/j.healun.2016.12.012

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 galley proof before it is published in its final citable 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**

Comparison of hemodynamic parameters in treatment-naïve and pretreated patients with pulmonary arterial hypertension in the randomized Phase III PATENT-1 study

Nazzareno Galiè, MD,<sup>a\*</sup> Friedrich Grimminger, MD, PhD,<sup>b</sup> Ekkehard Grünig, MD,<sup>c</sup> Marius M. Hoeper, MD,<sup>d</sup> Marc Humbert, MD, PhD,<sup>e</sup> Zhi-Cheng Jing, MD,<sup>f</sup> Anne M. Keogh, PhD,<sup>g</sup> David Langleben, MD,<sup>h</sup> Lewis J. Rubin, MD,<sup>i</sup> Arno Fritsch, PhD,<sup>j</sup> Neil Davie, PhD,<sup>j</sup> and Hossein-Ardeschir Ghofrani, MD<sup>b,k</sup>

From the <sup>a</sup> Department of Experimental, Diagnostic, and Speciality Medicine – DIMES, Bologna University Hospital, Bologna, Italy; <sup>b</sup> University of Giessen and Marburg Lung Center (UGMLC), Giessen, Germany, member of the German Center for Lung Research (DZL); <sup>c</sup> Centre for Pulmonary Hypertension, Thoraxclinic, University Hospital Heidelberg, Heidelberg, Germany; <sup>d</sup> Clinic for Respiratory Medicine, Hannover Medical School, Hannover, Germany, member of the German Center for Lung Research (DZL); <sup>e</sup> Assistance Publique—Hôpitaux de Paris, Service de Pneumologie, Hôpital Bicêtre, Université Paris-Sud, Laboratoire d'Excellence en Recherche sur le Médicament et Innovation Thérapeutique, and Institut National de la Santé et de la Recherche Médicale Unité 999, Le Kremlin—Bicêtre, France; <sup>f</sup> State Key Laboratory of Cardiovascular Disease, Fu Wai Hospital, PUMC&CAMS, Beijing, China; <sup>g</sup> St Vincent's Hospital, Sydney, New South Wales, Australia; <sup>h</sup> Center for Pulmonary Vascular Disease and Lady Davis Institute, Jewish General Hospital, McGill University, Montreal, Quebec; <sup>†</sup> University of California, San Diego, La Jolla, California; <sup>†</sup> Global Clinical Development, Bayer Pharma AG, Wuppertal, Germany; and the <sup>k</sup> Department of Medicine, Imperial College London, London, UK.

Reprint requests: Nazzareno Galiè, MD, University of Bologna, Institute of Cardiology, via Massarenti 9, 40138-Bologna, Italy. Telephone: 39 051 349 858. Fax: 39 051 344 859.

## Download English Version:

## https://daneshyari.com/en/article/5615976

Download Persian Version:

https://daneshyari.com/article/5615976

<u>Daneshyari.com</u>