Topical Issue on Endovascular Treatment and Advanced Imaging in Pulmonary Artery Diseases

Pulmonary artery diseases encompass a wide spectrum of pathology from acute embolic disease to chronic conditions, such as pulmonary hypertension. The first line treatment for pulmonary embolism is anticoagulation. However sub-massive or massive pulmonary embolism are associated with a poor outcome and therefore there is growing evidence for catheter directed thrombolysis using a variety of techniques, such as ultrasound assisted approaches. In selected patients with chronic pulmonary embolism endovascular therapy can be indicated to avoid pulmonary hypertension as a long-term sequela. Both, primary and secondary forms of pulmonary hypertension are associated with a decreased quality of life and high mortality. Innovative treatment approaches are warranted in the near future to treat pulmonary hypertension. Advanced imaging work-up, such as gadolinium enhanced MRI or post-processing methods, such as computational fluid dynamics may enable risk stratification as well as non-invasive disease severity assessment, thereby facilitating selection of patients for more aggressive treatment approaches, specifically endovascular therapy in addition to drug-based regimens.

This Topical Issue of *The International Journal of Cardiovascular Imaging* will combine a limited number of state-of-the-art reviews and original studies critically addressing the fascinating challenge from preclinical science to innovative investigational trials in the field of endovascular therapy and advanced imaging for pulmonary artery disease. The guest editors of the Topical Issue will be Gordon McLennan, MD FSIR and Sasan Partovi, MD.

List of disease conditions and topics which will be covered in the Topical Issue:

- Acute pulmonary embolism
- Chronic pulmonary embolism
- Pulmonary hypertension
- Pulmonary arteriovenous malformations
- Pulmonary artery stenosis
- Pulmonary artery aneurysms and pseudoaneurysms
- Pulmonary artery sarcoma
The final submission deadline for invited review articles is October 15th, 2018. The final deadline for submission of research articles is October 15th, 2018. Manuscripts submitted after the due date will not be accepted for this Topical Issue.

To avoid overlap of topics, please first send the tentative title of your manuscript to the Guest Editors at mclenng@ccf.org and sxp509@case.edu as well as the editor-in-chief at J.H.C.Reiber@lumc.nl. When you are ready to submit your article, please go to http://www.edmgr.com/caim and choose the Article Type "SI: PULMONARY ARTERY DISEASE".

Please note that all manuscripts will go through a thorough peer review process and acceptance to this Topical Issue is not guaranteed. We are looking forward to the submissions for the exciting Topical Issue of The International Journal of Cardiovascular Imaging.

Topical Issue Editors
Gordon McLennan, MD, FSIR
Department of Radiology, Cleveland Clinic Foundation, Cleveland, Ohio

Sasan Partovi, MD
Department of Radiology, University Hospitals Cleveland Medical Center, Cleveland, Ohio

Editor-in-Chief
Johan H.C. Reiber, PhD
Department of Radiology, Leiden University Medical Centre, Leiden, The Netherlands