

Robert NAEIJE – SHORT CURRICULUM VITAE

Born in 1948, married, two children

Professional address: Department of Cardiology, Erasme University Hospital, Lennik Road, 808, 1070 Brussels, Belgium Tel. : 32 2 5553322 Email naeije@ulb.ac.be

MD in 1973 (Université Libre de Bruxelles, ULB)

PhD thesis on human hypoxic pulmonary vasoconstriction in 1983 (ULB)

- Successively Resident, Attending, Staff member and Associate Director of the Department of Intensive Care of the Erasme University Hospital, Brussels, until 1997
- Consultant at the Department of Cardiology, and Director of the Pulmonary Hypertension Clinic of the Erasme University Hospital, Brussels
- Chairman of the Department of Physiology and Pathophysiology of the Faculty of Medicine of the ULB 1997-2013
- Professor emeritus at the Faculty of Medicine of the ULB 2013-

Professor of Pathophysiology at the Faculty of Medicine, and of Exercise Physiology and Sports Medicine at the Faculty of Kinesiology, ULB 1997-2013

Former Member of the Board of the American Journal of Respiratory and Critical Care Medicine, Associate Editor at the European Respiratory Journal

Main research interest: the pulmonary circulation, the right ventricle and exercise

Publications of chapters in books: a total of 47. Representative chapters:

1. Mélot C, Naeije R. Pulmonary Vascular Diseases. *Comprehensive Physiology* (former *Handbook of Physiology*), 2011, 1: 593-619
2. Naeije R, Chesler N. Pulmonary circulation at exercise. *Comprehensive Physiology*, 2012; 2: 711-741
3. R Naeije, N Westerhof . Pulmonary vascular function. In: *Textbook of Pulmonary Vascular Diseases*. Edited by XJ Yuan, GJN Garcia, CA Hales, S Rich, SL Archer, JB West. Springer, 2011, Chap 4, pp 61-72
4. Naeije R. Pulmonary Circulation. In: *Fishman's Pulmonary Diseases and Disorders*. Fifth edition. Edited by MA Grippi, JA Elias, JA Fishman, RM Kotloff, AI Pack and RM Senior. McGraw Hill education, New York, 2015, Volume 1, Section 2, chap 13, pp167-182
5. Naeije R. Pulmonary vascular function. In: *Pulmonary Circulation. Diseases and their Treatment*. 4nd ed. Edited by AJ Peacock, R Naeije and LJ Rubin. CRC Press, Boca Raton, FL, 2016, chap 2, pp 11-24

Publication of articles 434 references in Pubmed. Representative articles:

1. Naeije R, Mélot C, Mols P, Hallemans R. Reduction in pulmonary hypertension by prostaglandinE1 in decompensated COPD. *Am Rev Respir Dis* 1982; 125 : 1-5.
2. Naeije R, Mélot C, Mols P, Hallemans R. Effects of vasodilators on hypoxic pulmonary vasoconstriction in normal man. *Chest*. 1982; 82:404-410.

3. Naeije R, Mélot C. Acute pulmonary edema on the Ruwenzori. *Br Heart J.* 1990; 64:400-402.
4. Naeije R, Lipski A, Abramowicz M, Lejeune P, Mélot C, Antoine M, et al. Nature of pulmonary hypertension in congestive heart failure. Effects of cardiac transplantation. *Am J Respir Crit Care Med* 1994; 147: 881-7.
5. Kafi AS, Mélot C, Vachiéry JL, Brimiouille S, Naeije R. Partitioning of pulmonary vascular resistance in primary pulmonary hypertension. *J Am Coll Cardiol* 1998, 31 : 1372-1376.
6. Maggiorini M, Mélot C, Pierre S, Pfeiffer F, Greve I, Sartori C, Lepori M, Hauser M, Scherrer U, Naeije R. High altitude pulmonary edema is initially caused by an increased capillary pressure. *Circulation* 2001; 103: 2078-2083.
7. Mason NP, Peterson M, Melot C, Imanow B, Matveykine O, Gautier MT, Sarybaev A, Aldashev A, Mirrakhimov MM, Brown BH, Leathard AD, Naeije R. Serial changes in nasal potential difference and lung electrical impedance tomography at high altitude. *J Appl Physiol.* 2003; 94:2043-50.
8. Van Osta A, Moraine JJ, Melot C, Mairbaurl H, Maggiorini M, Naeije R. Effects of high altitude exposure on cerebral hemodynamics in normal subjects. *Stroke.* 2005; 36:557-60.
9. Faoro V, Huez S, Giltaire S, Pavelescu A, van Osta A, Moraine JJ, Guenard H, Martinot JB, Naeije R. Effects of acetazolamide on aerobic exercise capacity and pulmonary hemodynamics at high altitudes. *J Appl Physiol.* 2007; 103:1161-5.
10. Naeije R, Huez S, Lamotte M, Retailleau K, Neupane S, Abramowicz D, Faoro V. Pulmonary artery pressure limits exercise capacity at high altitude. *Eur Respir J.* 2010; 36:1049-55.
11. Groepenhoff H, Overbeek MJ, Mulè M, van der Plas M, Argiento P, Villafuerte FC, Beloka S, Faoro V, Macarlupu JL, Guenard H, de Bisschop C, Martinot JB, Vanderpool R, Penaloza D, Naeije R. Exercise pathophysiology in patients with chronic mountain sickness exercise in chronic mountain sickness. *Chest.* 2012; 142:877-84
12. Naeije R, Vanderpool R. Pulmonary hypertension and chronic mountain sickness. *High Alt Med Biol.* 2013; 14:117-25.
13. D'Alto M, Romeo E, Argiento P, Pavelescu A, Mélot C, D'Andrea A, Correra A, Bossone E, Calabrò R, Russo MG, Naeije R. Echocardiographic prediction of pre-versus postcapillary pulmonary hypertension. *J Am Soc Echocardiogr* 2015; 28:108-15.
14. Faoro V, Deboeck G, Vicenzi M, Gaston AF, Simaga B, Doucende G, Hapkova I, Roca E, Subirats E, Durand F, Naeije R. Pulmonary vascular function and aerobic exercise capacity at moderate altitude. *Med Sci Sports Sci Exerc* 2017; 49: 2131-2138
15. Guazzi M, Naeije R Pulmonary hypertension in heart failure: pathophysiology, Pathobiology, and emerging clinical perspectives *J Am Coll Cardiol* 2017; 69: 1718-1734

Brussels, February 22, 2018