

## CURRICULUM VITAE

**Family Name :** Van der Linden

**First Name :** Philippe, Jean, François

**Place and Date of Birth:** Brussels, 25.07.56

**Nationality :**Belgian

**Home Address :** Drève Pierre Laruelle, 10  
1495 Sart Dames-Avelines  
Belgium

**Military Service:** 01.10.87 au 31.10.88

**Telephone:** Home: 32 67 790274  
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### **Education and Qualification:**

1974-1981 : Medical School of Free University of Brussels (Belgium)  
Legal Degree of Doctor in Medicine Surgery and Childbirth  
(cum mxma laude) at Free University of Brussels, 26 June 1981

1981-1985: Specialist Training in Anesthetics:  
1981-1982: University Hospital of Free University of Brussels  
1982-1983 CHU St Pierre, Free University of Brussels  
1983- 1984 University Hospital of Free University of Brussels  
1984 Distric General Hospital, Braine l'Alleud  
1984-1985 University Hospital of Free University of Brussels

Doctor Specialist in Anesthetics and Resuscitation at Free University of Brussels, 07.10.85

1993: Ph D "**Contribution à l'étude des rapports entre transport et consommation d'oxygène au cours de l'anesthésie**" 26.05.93.

### **General Information :**

Registered with Belgian Medical Council (Registration No. 1 28494 31 100)

***Employment History :*****October 2003 – Date**

University Hospital Brugmann – HUDERF  
4 place Van Gehuchten  
1020 Brussels

Chairman of the Department of Anesthesiology

**September 1997 – September 2003**

CHU Charleroi  
Boulevard Paul Janson  
6000 Charleroi

Chairman of the Department of Cardiac Anesthesia

**July 1996 – August 1997**

Cliniques Universitaires de Bruxelles, ULB  
808 route de Lennik  
1070-Brussels

Clinical Director, Department of Anesthesia: responsible for the Clinical Section Head & Neck, Plastic Surgery, and Interventional Radiology

**March 1991 – June 1996**

Cliniques Universitaires de Bruxelles, ULB

Adjunct - Clinical Director, Department of Anesthesia: responsible for the Clinical Section of “Remote Locations”

November 1985 – February 1991

Cliniques Universitaires de Bruxelles, ULB

Consultant Anesthetist with a specific interest in cardiovascular anesthesia

**October 1986 – March 1987**

CHU Pitié-Salpêtrière, University Paris V Dpt Anestheisa (Prof. Viars)

Consultant Anesthesist with a specific interest in major vascular surgery

***Teaching :*****University Courses :**

Medical Course: 5<sup>th</sup> year Anesthesiology theory - 5 hours: 2003-

University Anesthesia Courses:

- 1<sup>st</sup> and 2<sup>nd</sup> year: 'Fluid Management and Transfusion 2002-
- 1<sup>st</sup> and 2<sup>nd</sup> year 'Blood Sparing Techniques 2002-

University Immuno-hematology Course:

"Alternatives to Allogeneic blood Transfusion' 2002-

### **Post-University Courses :**

- SaO<sub>2</sub>, SvO<sub>2</sub> et rapports DO<sub>2</sub>/VO<sub>2</sub>. Lille, November 1992.
- Modèles expérimentaux de choc septique DEA Paris, February 1993.
- Sang et substituts. Lille, November 1993.
- Blood sparing techniques. Coimbra, Portugal, October 1994.
- Anesthésie et choc hypovolémique. Lille, November 1994.
- Modèles expérimentaux de choc circulatoire. DEA Paris, February 1995.
- Les limites de l'anémie. Lille, November 1995.
- Les techniques d'épargne sanguines. Sofia, Bulgaria, June 1996.
- L'anesthésie pour la chirurgie carotidienne. Sofia, Bulgaria, June 1996.
- Hémorragie graves, transfusions massives. Lille, November 1996.
- 2th Postgraduate Refresher Course: Cardiovascular and Respiratory Physiology Applied to Intensive Care Medicine, Brussels, December 1996.
- Les limites de l'hémodilution, Paris, October 1997.
- L'intérêt de la mesure de la pression oncotique dans le remplissage vasculaire, Paris, October 1997.
- Clinical limits of anaemia, Coimbra, Portugal November 1997.
- Blood sparing techniques, Coimbra, Portugal, November 1997.
- Indications des dérivés sanguins, Lille, November 1997.
- 3th Postgraduate Refresher Course: Cardiovascular and Respiratory Physiology Applied to Intensive Care Medicine, Brussels, December 1997.
- Stratégies d'épargne sanguine, Lille, November 1998.
- 4th Postgraduate Refresher Course: Cardiovascular and Respiratory Physiology Applied to Intensive Care Medicine, Brussels, December 1998.
- 5th Postgraduate Refresher Course: Cardiovascular and Respiratory Physiology Applied to Intensive Care Medicine, Brussels, December 1999.
- Circulatory insufficiency. Optimisation of oxygen delivery and consumption. Mezotne, Lettonia, September 2000.
- Strategy of the transfusion of blood and blood products. Mezotne, Lettonia, September 2000.
- Plasma substitutes : properties and criteria of choice. Mezotne, Lettonia, September 2000.
- Stratégie transfusionnelle, Lille, October 2000.
- Sixth Postgraduate Refresher Course on Cardiovascular and Respiratory Physiology Applied to Intensive Care Medicine: « The Optimal Hematocrit », December 2000.

- Fédération Européenne d'enseignement en Anesthésiologie : Stratégie transfusionnelle, Lille, October 2001.
- Enseignement Post-Universitaire d'Anesthésie-Réanimation : «Stratégie de compensation des pertes hémorragiques : colloïdes, plasma, Lille October 2001.
- Module MMISS « Qualité et efficience » : Projet - qualité en transfusion, Charleroi, January 2002.
- Stratégie de compensation des pertes hémorragiques : colloïdes, plasma, Lille November 2003.
- Du bon usage des dérivés sanguins, Lille November 2003.
- Choix d'un colloïde aux Soins Intensifs, Lille November 2004.
- Choix d'un colloïde aux Soins Intensifs, Melzone, Lettonia, September 2005.
- Circulatory insufficiency. Optimisation of oxygen delivery and consumption. Mezotne, Lettonia, September 2005.
- Transfusion trigger. Slovaquia, December 2005.
- Alternatives o Blood Transfusion. Slovaquia, December 2005
- Management of acute haemorrhage. Value of new adjunctive therapy. Melzone, Lettonia, September 2006
- Crystalloids, colloids and albumin in Intensive care, recent evidences. Melzone, Lettonia, September 2006
- Choix d'un substitute plasmatique en Soins Intensifs. Lille, November 2006.
- Stratégies du remplissage vasculaire peropératoire. Lille, September 2007.
- Seuils transfusion aux Soins Intensifs, Lille, September 2007.
- Anémie peropératoire, Lille September 2009.
- Place des transporteurs d'oxygène en clinique, Lille September 2009.

### ***Publications:***

#### **A. Original Articles with independent peer review for the last 5 years :**

1. CHASSOT PG, VAN der LINDEN P, ZAUGG M, MUELLER X, SPAHN DR. Off-pump coronary artery surgery: Physiology and anaesthetic management. Br J Anaesth 92 : 400-413, 2004.
2. VAN der LINDEN P, DE HERT SG. Hemodynamic compensation during acute normovolemic haemodilution. Anesthesiology 100:1034-1035, 2004.
3. DE HERT SG, VAN der LINDEN P, CROMHEECKE S, MEEUS R, TEN BROECKE PW, DE BLIER IG, STOCKMAN BA, RODRIGUS IE. Choice of primary anesthetic regimen can influence intensive care unit length of stay after coronary surgery with cardiopulmonary bypass. Anesthesiology 101:9-20, 2004.
4. DE HERT SG, VAN der LINDEN P, CROMHEECKE S, MEEUS R, NELIS A, VAN REETH V, TEN BROECKE PW, DE BLIER IG, STOCKMAN BA, RODRIGUS IE. Cardioprotective properties of sevoflurane in patients undergoing coronary surgery with cardiopulmonary bypass are related to the modalities of its administration. Anesthesiology 101:299-310, 2004.
5. DE HERT SG, VAN der LINDEN P. Left ventricular function after cardiopulmonary bypass is related to the length-dependent regulation of myocardial function. Anesth Analg 99:311-312, 2004.

6. HEBERT PC, **VAN der LINDEN P**, BIRO G, HU LQ. Physiologic aspects of anemia. Crit Care Clin. 20:187-212, 2004.
7. **VAN der LINDEN P**, DE HERT SG, DAPER A, TRENCHANT A, SCHMARTZ D, DEFRANCE P, KIMBIMBI P. 5% urea-linked gelatin is as effective as 6% HES 200/0.5 for volume management in cardiac surgery patients. Can J Anaesth. 51:236-241, 2004.
8. DE HERT SG, **VAN der LINDEN P**. Effects on left ventricular performance of changes in cardiac loading conditions depend on 'relative load'. Eur J Anaesthesiol. 21 :158-159, 2004.
9. **VAN der LINDEN P**. Blood Transfusion strategies in ICU patients. Ann Fr Anesth Réanim 23 :673-674, 2004.
10. KERBAUL F, **VAN der LINDEN P**, PIERRE S, RONDELET B, MELOT C, BRIMIOULLE S, NAEJIE R. Prevention of haemodilution-induced inhibition of hypoxic pulmonary vasoconstriction by N-acetylcysteine in dogs. Anesth Analg 99:547-551, 2004.
11. SZEGEDI LL, **VAN der LINDEN P**, DUCART A, COSAERT P, POELAERT J, VERMASSEN F, MORTIER EP, D' HOLLANDER AA. The effects of acute isovolemic haemodilution on oxygenation during one-lung ventilation. Anesth Analg 100:15-20, 2005.
12. STREEL E, DAN B, ANTONIALI V, CLEMENT B, CAMPANELLA S, HANAK C, **VAN der LINDEN P**, PELC I, VERBANCK P. Effects of anaesthetic agents in interference of naloxone-induced opiate-withdrawal are dose-dependent in opiate-dependent rats. Life Sciences 77:650-655, 2005.
13. **VAN der LINDEN P**, DE HERT S, DERAEDT D, CEOMHEECKE S, DE DECKER K, DE PAEP R, RODRIGUS I, DAPER A, TRENCHANT A. Hydroxyethyl Starch 130/0.4 Versus Modified Fluid Gelatin for Volume Expansion in Cardiac Surgery Patients: The Effects on Perioperative Bleeding and Transfusion Needs. Anesth Analg 101:629-634, 2005.
14. **VAN der LINDEN P**, DE HERT S. Normovolemic hemodilution and the heart. Can J Anesth 52:130-132, 2005.
15. HARDY JF, **VAN der LINDEN P**. Blood conservation and the management of perioperative blood transfusion in a patient undergoing major vascular surgery: a Self-Assessment Program. Can J Anaesth 52:344-345, 2005.
16. **VAN der LINDEN P**, S.G. DE HERT, S. BELISLE, G. SAHAR, A. DELTELLI, Y. BEKKRAR, M. BLAUWAERT, J.-L. VINCENT. Critical oxygen delivery during cardiopulmonary bypass in dogs : pulsatile vs. non-pulsatile flow. Eur J Anaesthesiol 23:10-16, 2006.
17. ICKX BE, **VAN der LINDEN P**, MELOT C, WIJNS W, DE PAUW L, VANDESTADT J, HUT F, PRADIER O. Comparison of the effects of aprotinin and tranexamic acid on blood loss and red blood cell transfusion requirements during the late stages of liver transplantation. Transfusion 46: 595-605, 2006.
18. **VAN der LINDEN P**, ICKX BE. The effects of colloid solutions on hemostasis. Can J Anaesth 53 (6Suppl): S30-S39., 2006.
19. **VAN der LINDEN P**, Dierick A. Blood conservation strategies in cardiac surgery. Vox Sang 92:103-112, 2007.
20. DE HERT SG, LORSOMRADEE S, CROMHEECKE S, **VAN der LINDEN P**. The effects of levosimendan in cardiac surgery patients with poor left ventricular function. Anesth Analg 104:766-773, 2007.
21. VINCENT JL, SAKR Y, DE BACKER D, **VAN der LINDEN P**. Efficacy of allogeneic red blood cell transfusion. Best Pract & Res Clin Anaesthesiol 21:209-219, 2007.

22. TAZEROUALTI N, DE GROOTE F, DE HERT S, DE VILLE A, DIERICK A, **VAN der LINDEN P.** Oral clonidine vs midazolam in the prevention of sevoflurane-induced agitation in children. A prospective randomized controlled trial. *Br J Anaesth* 98 :667-671, 2007.
23. HAGON BS, ITANI O, BIDGOLI JH, **VAN der LINDEN P.** Parasacral sciatic nerve block: does the elicited motor response predict the success rate ? *Anesth Analg* 105:263-266, 2007.
24. REILES E, **VAN der LINDEN P.** Transfusion trigger in critically ill patients: has the puzzle been completed? *Crit Care* 19:142, 2007.
25. **VAN der LINDEN P.**, HARDY JF, DAPER A, TRENCHANT A, DE HERT SG. Cardiac surgery with cardiopulmonary bypass: does aprotinin affect outcome? *Br J Anaesth* 99:646-652, 2007.
26. **VAN der LINDEN P.** Management of uncontrolled hemorrhagic shock: toward a new clinical approach? *Anesthesiology* 107:529-530, 2007.
27. HALLET C, KIRSCH M, HICK G, DE GROOTE F, **VAN der LINDEN P.**, LAMY M. Postoperative pain management in ambulatory pediatric surgery. *Rev Med Liège* 62:679-684, 2007.
28. **VAN der LINDEN P.** Volume optimization in surgical patients: wet or dry? *Acta Anaesthesiol Belg* 58:245-250, 2007.
29. TIRCOVEANU R, **VAN der LINDEN P.** Hemodilution anemia in patients with cardiac disease: what is the safe limit? *Curr Opin Anaesthesiol* 21:66-70, 2008.
30. BERIS P, MUNOZ M, GARCIA-ERCE JA, THOMAS D, MANIATIS A, **VAN der LINDEN P.** Perioperative anaemia management: consensus statement on the role of intravenous iron. *Br J Anaesth* 100:599-604, 2008.
31. KUMBA C, **VAN der LINDEN P.** Effects of sedative agents on metabolic demand. *Ann Fr Anesth Reanim* 27:574-580, 2008.
32. KOZEK-LANGENECKER SA, JUNGHEINRICH C, SAUERMAN W, **VAN der LINDEN P.** The effects of hydroxyethyl starch 130/0.4 (6%) on blood loss and use of blood products in major surgery: a pooled analysis of randomized clinical trials. *Anesth Analg* 107:382-390, 2008.
33. CROMHEECKE S, LORSOMRADEE S, **VAN der LINDEN P.**, DE HERT SG. Moderate acute isovolemic hemodilution alters myocardial function in patients with coronary artery disease. *Anesth Analg* 107:1145-1152, 2008.
34. HARDY JF, BELISLE S, **VAN der LINDEN P.** Efficacy and safety of recombinant activated factor VII to control bleeding in nonhemophiliac patients: a review of 17 randomized controlled trials. *Ann Thorac Surg* 86:1038-1048, 2008.
35. DE HERT SG, LORSOMRADEE S, VANDEN EEDE H, CROMHEECKE S, **VAN der LINDEN P.** A randomized trial evaluating different modalities of levosimendan administration in cardiac surgery patients with myocardial dysfunction. *J Cardiothorac Vasc Anesth* 22:699-705, 2008.
36. BAELE PL, MUYLLE L, NOENS L, GULLIKSSON H, ISBISTER J, **VAN der LINDEN P.**, HÜBNER R, BERNEMAN Z, LAMY M, FERRANT A, LAMBERMONT M, SONDAG D. Guidelines for the transfusion of red cells. *Acta Clin Belg* 63:293-295, 2008.
37. DE BACKER D, VANDEKERCKHOVE B, STANWORTH S, WILLIAMSON L, HERMANS C, **VAN der LINDEN P.**, HÜBNER R, BAELE P, JOCHMANS K, FERRANT A, LAMBERMONT M, MUYLLE L, TOUNGOUZ M. Guidelines for the use of fresh frozen plasma. *Acta Clin Belg* 63:381-390, 2008.
38. DE HERT S, **VAN der LINDEN P.** Clinical trials: evidence based and clinically relevant or not? *Curr Opin Anaesthesiol* 22:68-70, 2009.

39. HANART C, KHALIFE M, DE VILLE A, OTTE F, DE HERT S, VAN der LINDEN P.  
 Perioperative volume replacement in children undergoing cardiac surgery: Albumin versus hydroxyethyl starch 130/0.4. Crit Care Med 37:696-701, 2009.

***Membership of Professional Organizations :***

**Scientific Societies :**

Associate Member, Belgian Society of Anesthesia & Reanimation (BSAR) : 1990-1995  
 Correspondant Member, BSAR: 1995-1997  
 Full Member, BSAR: 1997-  
 Full Member of the European Society of Anaesthesia (ESA: 1992-  
 Faculty Member of the ESA: 1995-

Member of the ESA scientific subcommittee nb 4: "Clinical and Experimental Circulation" 1998-2005.  
 Member of the ESA scientific subcommittee nb 6 "Transfusion and Haemostasis" 2000-2007  
 Chairman of the ESA scientific subcommittee nb 6 : « Transfusion and Haemostasis" 2007-  
 Scientific Consultant, Société d'Anesthésie de Charleroi (SAC) 1998-  
 Member of the "Groupe d'Intérêt en Hémostase" (GIHP) 1998-  
 Full Member of the Network for Advancement in Transfusion Alternatives Society (NATA) 1999-  
 Member of the Scientific Committee of NATA 1999-  
 Member of the Editorial Board of NATA 2002-  
 Member of the Board of Directors NATA 2002-  
 Member of the Scientific Committee of the Society for Advancement in Blood Management (SABM) 2002-2003  
 Chairman of the Scientific Committee of the Annual Meeting of SARB : « Perioperative Blood transfusion Strategies, 13 December 2003.  
 Member of the Scientific Committee of the JEPU 2006-  
 Member of the Scientific Committee of the FEAA 2006-

**University :**

Assistant, ULB (50%) : 1985-993  
 Member of the Faculty Council, ULB 1990-1992  
 Member of the Faculty Commission 1993-

**Hospital:**

Administrator, Medical Professional Committee: Erasme University Hospital: 1985-1988  
 Member of the Medical Council, Erasme University Hospital: 1997  
 Member of the Transfusion Committee ; CHU Charleroi : 1998-2003  
 Chairman of the Transfusion Committee, CHU Charleroi : 2002-2003  
 Chairman of the Transfusion Committee, CHU Brugmann-HUDERF 2005-

***Jury Member of PhD thesis:***

1. Contribution à l'étude de la mécanique ventilatoire. JF Brichant, Université de Liège, 2005.
2. Studies in patients with sepsis and organ failure : diagnostic and therapeutic aspects. Y Sakr, Université Libre de Bruxelles, 2007.
3. Contribution to the study of sympathetic dysregulation in pulmonary arterial hypertension and after heart transplantation. A. Ciarka, Université Libre de Bruxelles, 2008.
4. Adjunctive therapies in a clinical relevant ovine model of septic shock. Z. Wang, Université Libre de Bruxelles, 2008.

***5. Experimental Research Activities :***

Experimental animal research : 1984-1997  
 Grant for experimental research "Fondation Erasme: 1988-1989: Effects of Anesthetic Agents on the DO<sub>2</sub>-VO<sub>2</sub> Relationship  
 Director of the Experimental Laboratory of the Department of Anesthesiology, Erasme University Hospital : 1993-1997  
 Experimental activity in the Laboratory of Cardiovascular and Respiratory Physiology, Prof R. Najie, Free University of Brussels: 2001-2002 "Isovolemic Hemodilution and Pulmonary Hypoxic Vasoconstriction"  
 Co-promotor of experimental project: "Effects of sepsis on anaemia tolerance" Dr F. Chiari, Erasme University Hospital 2007-

***Scientific Prizes :***

2001: SARB: Price of the best annual experimental abstract « Blood Transfusion vs Increased Blood Flow : Effects on the DO<sub>2</sub>-VO<sub>2</sub>»  
 2003 : SARB : Price of the best annual experimental article : «Tolerance to acute isovolemic hemodilution. Effects of anesthetic depth».  
 2008. SARB Price of the best article on fluid replacement: "Perioperative volume replacement in children undergoing cardiac surgery: Albumine versus hydroxyethyl starch 130/0.4.