**CURRICULUM VITAE**

**Vlad-Adrian Alexandrescu**

**Degree: MD, PhD**

**Affiliation: General, Vascular, Endovascular** and **Thoracic surgeon.**

**Functions:**

**1.** Consultant in the Cardio-Vascular and Thoracic Surgery Department, CHU Sart-Tilman Hospital University of Medicine, Liège, Belgium.

**2.** Coordinator of the General, Thoracic and Vascular Surgery Department: Princess Paola Hospital, IFAC/Vivalia Marche-en-Famenne, Belgium.

**3.** Coordinator and surgical training for General and Vascular Surgery Specialty candidates (University of Medicine, Liège, Belgium).

**4.** PhD designation in 2018 after graduating the University of Medicine, Liège, Belgium.

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**Personal data:** Dr. Alexandrescu obtained his European medical diploma in medical sciences after graduating the Leuven Medical University (U.C.L. Saint-Luc University) in Belgium in 1994 (with honorary distinction).

After additional cardio-thoracic surgery, laparoscopic, endovascular and microsurgical training years in Saint-Luc UCL and Saint-Jean (Leuven University Clinics in Brussels), he obtained the general, cardio-vascular and thoracic surgical competence in 1999.

Adding further postgraduate stages, he acquired complementary endovascular skills (particularly in carotid, aortic and below the knee peripheral endoluminal revascularizations) in Saint-Joseph Hospital in Marseille (Professor P. Bergeron and Professor J. Jausseran) France, and earned particular experience in lower limb CTO

recanalization techniques in Leicester Royal Infirmary (Professors P.R. Bell and N.J. London, Vascular Dept. University of Leicester), UK.

PhD graduation at the University of Medicine, Liège, Belgium in 2018 with Jury distinction.

**Competences:** Currently Dr. Vlad Alexandrescu assumes the Coordinator function of the General, Thoracic and Vascular Surgery Department of the “Princess Paola” Hospital, also coordination of Surgical trainees (general formation for trainees and students). This competence is affiliated to the University of Medicine, Liège, Belgium.

Since 2014, he acts as Vascular and Endovascular Consultant in the Cardio-Vascular and Thoracic Surgery Department, “CHU Sart-Tilman” University of Medicine Hospital, Liège, Belgium.

Dr. Alexandrescu acquired in 2018 the PhD competence, equally at the University of Medicine in Liege, Belgium.

**Specific experience:** Since 2001,established and exercises current practice of the “Multidisciplinary Diabetes Foot Clinic” in Princess Paola Hospital.
Since 2004, he appointed his institution as a “3rd line” diabetic care unit, in the Belgian’s district of Luxembourg.

Starting 2005, Dr. Alexandrescu promotes specific limb salvage revascularization techniques such as “wound targeted below-the-knee revascularization” as preferential vascular treatment in diabetic neuro-ischemic foot wounds, inside referred institutional multidisciplinary team approach.

Currently, he is member of many national and international professional associations, especially those dedicated to vascular and endovascular peripheral interventions, diabetes, wound healing and stroke prevention.

Since 2014, Dr. Alexandrescu accomplishes an academic assignment at the CHU Sart-Tilman Hospital, University of Liège.

In November 2018, Dr. Alexandrescugraduated as PhD at the University of Liège.

 **Current research interest**: Critical Limb Ischemia macro- and micro-circulatory aspects, its prevention and treatment, wound healing, particularly in diabetic and renal patients, stroke prevention and treatment, aneurismal disease.

**Publications**: More than 71 articles on endovascular diabetic foot treatment, limb salvage techniques, tissue regeneration, and carotid revascularization in different surgical and medical journals. He also contributed with original chapters in seven recent medical books and published as Editor in 2012 and 2017 two original volumes dedicated to the angiosome concept and wound healing in critical limb ischemia. Dr. Alexandrescu is also the author of a Thesis volume consecrated to diabetic foot revascularization, in 2018.

**Communications**: More than hundred original communications in different national and international medical congresses, during the last fifteen years.

**Societies**: member of numerous European and American surgical and endovascular Societies.

**Additional activities:** Affiliation to various hospital planning and review committees and active participation in many diabetic and wound care educational social activities by giving presentations to a variety of audiences.

During 2005-2018, set-up of various surgical, endovascular and multidisciplinary medical training sessions, conferences and workshops for students, young specialists, GPs, and diabetic-foot specialized nurses in the southern part of Belgium.

**Pier-Review affiliation** for the next international publications :

« *Journal of Endovascular Therapy*» since 2010.

« *Journal of Cardiovascular Surgery*» since 2012.

*“British Journal of Surgery” since 2018.*

Since 2015 : Associate Editor of *”Current Research in Diabetes & Obesity Journal (CRDOJ)”.*

**Parallel research expertise** and **fields of interest**:

1. ***Carotid angioplasty*** and stenting and cerebral protection systems

 (institutional research projects and publications).

2. ***EVAR*** and abdominal aneurismal pathology and treatment.

 Experimental laboratory studies on aortic endografts on the “Artificial Human

 Model” in the “Engineering Medicine Institute”, Pr. Patrice Bergeron and Pr.

 Regis Rieux, Marseille, France (1998-1999).

 In vitro experimentation of ***aortic aneurismal sac pressure***: Leicester

 University Laboratory, Pr. PRF Bell, Leicester U.K. (2000).

3. ***Endovascular recanalization techniques*** and devices for the arteries of the

 lower limb. (institutional research and publications).

4. ***Critical Limb Ischemia*** macro- and micro-circulalory aspects, its prevention

 and treatment, particularly in diabetic and renal patients. (institutional

 research and publications).

5. The ***Diabetic Foot*** and ***Topographic « wound-directed » revascularization***, in critical ischemic wounds of the lower limb (institutional research, academic projects and publications).

6. ***Compartmental syndrome*** of ***the*** ***ischemic foot*** and new indications for

 treatment (institutional research and publications).

7. ***New diagnostic methods*** for topographic critical limb ischemia diagnostic

 using the ***Nuclear Medicine*** Laboratory of our institution (ongoing institutional

 research project).

8. ***Hybrid surgical and endovascular arterial revascularization interventions***

 for limb salvage (institutional research and publications).

9. ***Arterial calcifications*** in tibial vessels: etiology, diagnostic and ways of

 treatment in diabetic patients (institutional research).

10. ***Deep veins arterialization*** for severe arterial disease in diabetic and renal

 patients (institutional research and publications).

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**Publications – *Medical Journals*** (during the last 10 years):

**First Author:**

* Alexandrescu VA,Hubermont G, Coessens V, Philips Y, Guillaumie B,

 Ngongang Ch, Vincent G, Azdad K, Ledent G, De Marre C, Macoir C.

 Why a multidisciplinary team may represent a key factor for

 lowering the inferior limb loss rate in diabetic neuro-ischaemic

 wounds : application in a departmental institution. *Acta Chir Belg*.

 2009; 109: 88-98.

* Alexandrescu VA, Hubermont G, Philips Y, Guillaumie B, Ngongang Ch,

 Coessens V, Vandenbossche P, Coulon M, Ledent G, Donnay J-C.

 Combined primary subintimal and endoluminal angioplasty for

 ischaemic inferior-limb ulcers in diabetic patients: 5-year practice in
 a multidisciplinary ‘Diabetic-Foot’ service. *Eur J Vasc Endovasc Surg.*

 2009; 37: 448-456.

* Alexandrescu VA, Ngongang Ch, Coulon M, Vandenbossche P.Large Non-anastomotic False Aneurysm on Dacron Aortobifemoral Prosthesis Solved by Endovascular Exclusion. *Acta Chir Belg.* 2008; 108: 747-749.
* Alexandrescu VA*,* Hubermont G, Philips Y, Guillaumie B,

Ngongang Ch, Vandenbossche P, Azdad K, Ledent G, Horion J. Selective primary angioplasty following an angiosome model of reperfusion in the treatment of Wagner 1–4 diabetic foot lesions: practice in a multidisciplinary diabetic limb service. *J Endovasc Ther*. 2008; 15: 580-593.

* Alexandrescu VA. Below-the-Ankle Subintimal Angioplasty: How far

can we push this application for lower limb preservation in

diabetic patients? *J Endovasc Ther***.** 2009;16: 617-618.

* Alexandrescu VA, Ngongang Ch, Vincent G, Ledent G, Hubermont G.

 Deep calf veins arterialization for inferior limb preservation in

 diabetic patients with extended ischaemic wounds, unfit for direct

 arterial reconstruction: preliminary results according to an

 angiosome model of perfusion. *Cardiovascular Revascularization Medicine***.**

 2011 ;12 : 10–19.

* Alexandrescu VA, Hubermont G. The challenging topic of diabetic foot

 revascularization : does the angiosome-guided angioplasty improve

 outcome ? *J Cardiovasc Surg*. 2011 ;52(5) 1-16.

* Alexandrescu VA, Hubermont G. Does peripheral neuropathy have a clinical impact on the endovascular approach as a primary treatment for limb-threatening ischemic foot wounds in diabetic patients? *J Diab Metab****.*** 2012; S5: 53-61.
* Alexandrescu VA. Anatomical evaluation of the distal leg arteries: the angiosome concept and its eventual applications in critical limb ischemia revascularization. In: *Endovascular below the knee revascularization* *combo: from theory to practice*. Marseille, Ed. Divine-id.com 2011; 21-30.
* Alexandrescu VA. Hubermont G, Azdad K. Traitement de l’ischémie critique guidée par territoire ou angiosome. *Journal des Maladies Vasculaires* 2012; 37: 71-73.

* Alexandrescu VA, Vincent G, Azdad K, MD; Hubermon G, Ledent G,

 Ngongang C, Filimon C. A reliable approach to diabetic neuroischemic foot wounds:

 below-the-knee angiosome-oriented angioplasty. *J Endovasc Ther*.

 2011; 18: 376-387.

* Alexandrescu V.A, Amin A. Tips and tricks for lower limb revascularization. *Vasc New Tech*. 2012(2): 26-30.
* Alexandrescu V.A. How the angiosome concept may change our approach in CLI revascularization? *Vasc Endovasc Ther.* 2012; 1 (Suppl.) 46-48.
* Alexandrescu VA, Söderström M, Venermo M. Angiosome theory: fact or fiction? *Scandinavian J Surg.* 2012; 101: 1-7.
* Alexandrescu V.A.Myths and proofs of angiosome applications in CLI: where do we stand? Commentary, *J Endovasc Ther.* 2014; 21: 616-624.
* Alexandrescu V, Van Espen D. Threatening inferior limb ischemia:

 When to consider fasciotomy and what principles to apply?*ISRN Vasc*

 *Medecine*. 2014;21: 17-26.

* Alexandrescu V. A. Letawe A. Critical Limb Ischemia treatment strategies in diabetics: present deeds and future challenges. Mini Review. *Curre Res Diabetes & Obes J*. 2015; 1(1): 1-5.
* Alexandrescu VA, JL Jacquemin, PA Wuidar, K Azdad, F. Triffaux. Hybrid common femoral artery surgical revascularization associated to endovascular femoropopliteal recanalization in high-risk (ASA 3-4) patients: a seven-year period institutional experience. *W J Cardiovasc Dis*. 2016; 6: 1-13.
* Alexandrescu VA, Deleeuw P, Kovanda JS. Ischemic and venous wound identification : using macro- and microcirculatory characteristics, noninvasive and invasive tests, and available imaging modalities. *Endovasc Today.* 2017; 16(5) : 34-39.

**Co-Author :**

* Bergeron P, *Alexandrescu VA*, Amichot A, Chambran P. Restenosis after carotid surgery : the role of endovascular reatment. *J Cardiovasc Surg.* 1998 ; 36 (1) (Suppl. 1), 113-116.
* Bergeron P, *Alexandrescu V.A*, Kang L.E, Minh N.C, Amichot A. Percutaneous angioplasty of the internal carotid artery : the Carotid Artery Stent Trial (CAST I.) report. *New trends and developpments in carotid artery disease.* 1998 , Futura Med. Publ. Edit. 289-295.
* Astarci P, *Alexandrescu V.A*, Hammer F, Elkhoury G, Noirhomme P, Rubay J, Poncelet A, Lacroix V, Glineur D and Verhelst R. Late presentation of bleeding from a traumatic obturator artery aneurysm, successfully treated by endovascular means. *Eur J Vasc Endovasc Surg*. 2005;10, 77–80.
* Kum S, Tan YK, Schreve MA, Ferraresi R, Varcoe RL, Schmidt A, Scheiert D, Mustapha JA, Lim DL, Ho D, Tang TY, *Alexandrescu VA*, Mutirangura P.

Midterm outcomes from a pilot study of percutaneous deep vein arterialization for the treatment of no-option critical limb ischemia. *J Endovasc Ther.* 2017; 24(5): 619-626.

**Publications – Chapters in Medical Books:**

* *Alexandrescu VA*, Hubermont G. Diabetic foot ischemic ulcers : below the knee subintimal angioplasty as possible application of the « Angiosomes » model of perfusion (***Chapter 10***), in *«****Improving the understanding and revascularization of the diabetic foot.****»* 2010 ; Cardiac&Vascular, J&J Publ. Hamburg, p 62-70.
* *Alexandrescu VA*, Ngongang Ch, Proumen J.

Filter assisted carotid artery stenting: is the embolic protection improvable ? (***Chapter 3***), in : « ***Angioplasty Research Progress.****»* 2009 ; Nova Science Publishers, Inc. N.Y. p 113-149.

* *Alexandrescu VA.*

**Editor** of the volume: Angiosomes applications in Critical Limb Ischemia: in search for relevance*.* Author of ***Chapters 1,*** *and* ***8***; Torino, Ed. *Minerva Medica.* 2012. p 1–30, p 71–88.

* *Alexandrescu VA,* Hubermont G, Vincent G.

Diabetic neuro-ischemic foot wounds: does primary angioplasty following an angiosomes model of

 perfusion improve the fate of minor amputations and influence the

 global limb preservation rates? (***Chapter 6***), In: « ***Advances in Medicine and***

 ***Biology****»,* Volume 15 ; 2011. Nova Science Publishers,Inc. p 190-215.

* *Alexandrescu VA*.

Is the angiosome concept useful? (***Chapter 17***), in: “*Vascular and Endovascular controversies update, 34 years (1978-2012).”* 2012. Biba Publishing London UK. p 471-480.

* *Alexandrescu VA*, Becker D.

Is limb loss always inevitable for critical neuro-ischemic foot wounds in diabetic patients with end stage renal disease and unfit for vascular reconstructions ? (***Chapter 13***), in *«* ***Diseases of the renal parenchyma*** *»* Intech Publishers Inc., 2012; p 228-246.

* *Alexandrescu VA*, London V.

« Angiosomes: the cutaneous and arterial evaluation in CLI patients », (***Chapter 5***) in J.M. Mustapha, Ed. *HMP*: *Critical Limb* *Ischemia: diagnosis and interventions*. Chicago. 2015; p 71-88.

* *Alexandrescu VA,* Triffaux F.

Ischemic ulcer healing: does appropriate flow reconstruction stand for all that we need? (***Chapter 11***) and **Editor** of the volume: “Wound healing: new insights into ancient challenges” *Ed. Intech. Publ.* 2016: 251-282.

* *Alexandrescu VA*, Defraigne JO.

Angiosome system and principle (***Chapter 77***): in Lanzer P. *Textbook of Catheter-Based Cardiovascular Interventions.* Ed. Springer, Hamburg. 2018.