

CURRICULUM VITAE



Nume:
Data nașterii:
Naționalitate:

Victor S Costache MD, PhD
18/03/1974
Română, Franceză

EXPERIENȚA MEDICALĂ

- 2020 - prezent **Chirurg cardiovascular, Șef Secție**
Departamentul de Chirurgie Cardiovasculară
Spitalul Sf. Constantin
Brașov, România
- 2013 - 2019 **Chirurg cardiovascular și toracic, Șef Secție**
Departamentul de Chirurgie Cardiovasculară și Toracică
Spitalul European Polisano
Sibiu, România
- 2010 - 2013 **Chirurg cardiovascular și toracic**
Departamentul de Chirurgie Cardiovasculară și Toracică
CH Annecy, Franța
- 2008 - 2010 **Chirurg cardiovascular și toracic (Șef lucrări)**
Departamentul de Chirurgie Cardiovasculară și Toracică
CHU Grenoble, Franța
- 2009 **Medic Specialist în Chirurgie Cardiovasculară și Toracică**
Diplomă de "Etude Spécialisee Complémentaire Qualifiant"- DESC
College Francaise Sud, Facultatea de Medicină J. Fourier
Grenoble, Franța
- 2008 **Examen Medic specialist - Chirurgie Cardiovasculară și Toracică**
Diplomă de medic specialist - DESC
College Francaise Sud, Facultatea de Medicină J. Fourier
Grenoble, Franța
- 2003 - 2008 **Medic rezident** - Departamentul Chirurgie Vasculară
CHU (Centre Hospitalier Universitaire) Grenoble și Toulouse
Franța
- 2006 **Medic specialist în Chirurgie Toracică**
Facultatea de Medicină
București, România
- 2002 **Concurs Național de Rezidențiat Franța (DES)**
Admis - filieră chirurgicală
- 2000 - 2001 **Medic rezident** - Departamentul de Chirurgie Toracică

- Universitatea de Medicină și Farmacie "Gr. T. Popa "
Iași, Romania
- 1997 **Stagiu clinic**
Universitatea Oxford, USA
- 1995 **Stagiu clinic**
Școala Medicală Sheffield, UK

EXPERIENȚA UNIVERSITARĂ

- 2021 - prezent **Profesor Universitar**
Universitatea "Titu Maiorescu", Facultatea de medicină
Departamentul de chirurgie
Bucuresti, România
- 2020 - prezent **Membro al Academiei Franceze de Chirurgie**
<https://www.academie-chirurgie.fr/>
- 2014 - 2021 **Conferențiar Universitar**
Universitatea "Lucian Blaga", Facultatea de medicină
Departamentul de chirurgie
Sibiu, România
- 2008-2010 **Sef Lucrari**
Departamnet Chirurgie Cardiovasculara
CHU Grenoble, Franta
- 2003 - 2008 **Monitor clinic**
Departamentul de anatomie
CHU Grenoble, Franța
- 2000 - 2001 **Asistent universitar**
Departamentul de Chirurgie Toracică
Universitatea de Medicină și Farmacie "Gh. T. Popa"
Iași, România

EXPERIENȚA MANAGERIALĂ

- 2020 - prezent **Medic Șef de Secție**
Departamentul de Chirurgie Cardiovasculară
Spitalul Sf. Constantin
Brașov, România
- 2019 - 2020 **Ministrul Sănătății**
Guvernul României
București, România
- 2013 - 2019 **Medic Șef de Secție**
Departamentul de Chirurgie Cardiovasculară și Toracică
Spitalul European Polisano
Sibiu, România

- 2013 - 2019 **Director Medical**
Spitalul European Polisano
Sibiu, România
- 2010 - 2013 **Medic Șef de Secție**
Departamentul de Chirurgie Cardiacă din Sectorul Public
Spitalul regional din Annecy, Franța

EDUCAȚIE ȘI FORMARE

- 2014 **Master** în Managementul Sănătății
Ministerul Sănătății
România
- Aprilie 2011 **Concurs național de primariat Chirurgie Cardiovasculară și Toracică**
Centrul Național de Management, Unitatea pentru medic primar
Paris, Franța
- 2009 **Doctorat (PhD)**
Teza: Optimizarea metodelor de diagnostic și tratament în mediastinite
Universitatea de Medicină și Farmacie "Gr. T. Popa "
Iași, Romania
- 2008 **Fellowship în Chirurgie Cardiovasculară și Toracică**
Universitatea Laval, Institutul de Cardiologie
Quebec, Canada
- 2008 **Curs de Chirurgie cardiovasculară - Crossroads**
Institutul Bruxelles
Belgia
- 2007 **DIU (Diplomă inter-universitară) în Chirurgie Endovasculară**
Universitatea din Lyon
Marseille, Franța
- 2004 **Master în Anatomie**
Facultatea de Medicină J. Fourier
Grenoble, Franța
- 1999 **Licența în Medicină (MD)**
Teza "Diagnostic și efectuarea disecțiilor aortice la Spitalul John Radcliffe -
Oxford; experiența noastră în zece ani"
Coordonator Prof. Steve Westaby , Oxford, U.K
Coordonator Prof. S. Mihalache, Iași, Romania
- 1992 **Diplomă de Bacalaureat**
Liceul "Mihai Eminescu"
Iași, Romania
- 1994 **Stagiu de cercetare fundamentală**
Curs de miografie pentru determinarea structurii și funcțiilor arterelor mici
Universitatea Aarhus, Școala Medicală Danemarca

PUBLICAȚII

Articole științifice

1. **Costache VS**, Meekel, JP, Costache, A, Melnic T, Bucurenciu C, Chitic A, Candea G, Solomon C, Yeung KK. Prospective Midterm Single-Center Results of Multilayer Flow Modulator Stents in Type B Aortic Dissection. *J EVT*, 2020 Sep 1;1526602820950720. doi: 10.1177/1526602820950720. PMID: 32873130
2. Prisecaru R.S, **Costache V**. Wide QRS tachycardia after recent pulmonary vein isolation. *Neth Heart J.*, 27 January 2021. doi: 10.1007/s12471-021-01547-w
3. **Costache VS**, Meekel JP, Costache A, Melnic T, Solomon C, Chitic AM, Bucurenciu C, Moldovan H, Antoniac I, Candea G, Yeung KK. Geometric analysis of type B aortic dissections shows aortic remodeling after intervention using multilayer stents. *Materials*, 2020 May 15; 13 (10): E2274. doi: 10.3390/ma13102274
4. Meekel JP, Mattei G, **Costache VS**, Balm R, Blankensteijn JD, Yeung KK. A multilayer micromechanical elastic modulus measuring method in ex vivo human aneurysmal abdominal aortas. *Acta Biomater.* 2019 Sep 15;96:345-353. doi: 10.1016/j.actbio.2019.07.019. Epub 2019 Jul 12. PubMed PMID: 31306785.
5. Sultan S, Kavanagh EP, Veerasingam D, **Costache V**, Elhelali A, Fitzgibbon B, Diethrich E, Hynes N. Kinetic Elephant Trunk Technique, Early Results in Chronic Symptomatic Aortic Dissection Management. *Ann Vasc Surg.* 2018 Nov 23. pii: S0890-5096(18)30851-3. doi: 10.1016/j.avsg.2018.08.083. [Epub ahead of print] PubMed PMID: 30476618.
6. **Costache VS**, Yeung KK, Solomon C, Popa R, Melnic T, Sandu M, Bucurenciu C, Candea G, Santa A, Costache A. Aortic Remodeling After Total Endovascular Aortic Repair With Multilayer Stents: Computational Fluid Dynamics Analysis of Aortic Remodeling Over 3 Years of Follow-up. *J Endovasc Ther.* 2018 Dec;25(6):760-764. doi: 10.1177/1526602818808049. Epub 2018 Oct 24. PubMed PMID: 30354915.
7. Birlutiu V, Birlutiu RM, **Costache VS**. Viridans streptococcal infective endocarditis associated with fixed orthodontic appliance managed surgically by mitral valve plasty: A case report. *Medicine (Baltimore)*. 2018 Jul;97(27):e11260. doi: 10.1097/MD.00000000000011260. PubMed PMID: 29979391; PubMed Central PMCID: PMC6076147.
8. Horatiu Moldovan, Daniela Gheoghita, Iulian Antoniac, Dan Gheorghe, Fabrizio Fiori, Aurel Mohan, Gheorghe Raftu, Cristian Ionel, **Victor Costache** "*Bioadhesives Used in Cardiovascular Surgery*" Revista de Chimie http://www.revistadechimie.ro/article_eng.asp?ID=6627
9. **Costache VS**, Moldovan H, Arsenescu C, Costache A. Aortic valve surgery of the 21st century: sutureless AVR versus TAVI. *Minerva Cardioangiol.* 2018 Apr;66(2):191-197. doi: 10.23736/S0026-4725.17.04558-3. Epub 2017 Nov 20. Review. PubMed PMID: 29160044.
10. Constantinescu V, Matei D, **Costache V**, Cuciureanu D, Arsenescu-Georgescu C. Linear and nonlinear parameters of heart rate variability in ischemic stroke patients. *Neurol Neurochir Pol.* 2018 Mar;52(2):194-206. doi: 10.1016/j.pjnns.2017.10.002. Epub 2017 Oct 11. PubMed PMID: 29110883.
11. Sultan S, Kavanagh EP, Diethrich E, **Costache V**, Sultan M, Jordan F, Hynes N. A clinical review of early outcomes from contemporary flow modulation versus open, fenestrated and branch technologies in the management of thoracoabdominal aortic aneurysm. *Vascular.* 2018 Apr;26(2):209-215. doi: 10.1177/1708538117724933. Epub 2017 Aug 24. Review. PubMed PMID: 28836901.

12. Sultan S, Kavanagh EP, Stefanov F, Sultan M, Elhelali A, **Costache V**, Diethrich E, Hynes N; Global MFM Collaborators. Endovascular management of chronic symptomatic aortic dissection with the Streamliner Multilayer Flow Modulator: Twelve-month outcomes from the global registry. *J Vasc Surg.* 2017 Apr;65(4):940-950. doi: 10.1016/j.jvs.2016.09.059. PubMed PMID: 28342521.
13. Vaislic CD, Fabiani JN, Chocron S, Robin J, **Costache VS**, Villemot JP, Alsac JM, Leprince PN, Untersee T, Portocarrero E, Glock Y, Rousseau H; STRATO Investigators Group. Three-Year Outcomes With the Multilayer Flow Modulator for Repair of Thoracoabdominal Aneurysms: A Follow-up Report From the STRATO Trial. *J Endovasc Ther.* 2016 Oct;23(5):762-72. doi: 10.1177/1526602816653095. Epub 2016 Jun 8. PubMed PMID: 27280802.
14. Sultan S, **Costache V**, Ciobanu E, Hynes N. Streamliner Multilayer Flow Modulator for subacute complicated type B dissection using the phantom technique. *J Vasc Surg.* 2016 Jun;63(6):1635-6. doi: 10.1016/j.jvs.2015.10.093. PubMed PMID: 27230245.
15. **Costache V**, *The Use of MFM in the Endovascular Treatment of Complex Aortic Aneurysms and Aortic Dissections*, Article reference: JICC298, Journal of Indian College of Cardiology, December, 2015
16. Sherif Sultan; **Costache V**; Ala Elhelali; Edel P. Kavanagh; Mohammed Sultan; Florian Stefanov; Violet Lundon; Niamh Hynes- “ TCT-810 “*The Phantom Streamliner*” as a *Therapeutic Option in the Management of Total Body Thoraco-abdominal Aortic Pathology[TAAA]. Early Results.*” - Journal Of the American College of Cardiology; Peripheral Vascular Disease and Intervention; Volume 66, Issue 15_S, October 2015;
17. Vaislic CD, Fabiani JN, Chocron S, Robin J, **Costache VS**, Villemot JP, Alsac JM, Leprince PN, Untersee T, Portocarrero E, Glock Y, Rousseau H; STRATO Investigators Group. One-year outcomes following repair of thoracoabdominal aneurysms with the multilayer flow modulator: report from the STRATO trial. *J Endovasc Ther.* 2014 Feb;21(1):85-95. doi: 10.1583/13-4553R.1. PubMed PMID: 24502488.
18. Chavanis N, Friehe JP, Bougon D, **Costache VS**. I shouldn't be alive: bone marrow biopsy. *Eur J Cardiothorac Surg.* 2013 Mar;43(3):653. doi: 10.1093/ejcts/ezs501. Epub 2012 Sep 17. PubMed PMID: 22986229.
19. **Costache V**, Gaudreau G, Houde C, Rodière M, Hacini R, Blin D, Chavanon O. The association of VAC® therapy, titanium plates osteosynthesis and bilateral pectoral muscle flaps in the management of postoperative mediastinitis in an obese and diabetic patient]. *Ann Chir Plast Esthet.* 2010 Dec;55(6):597-602. doi: 10.1016/j.anplas.2009.08.002. Epub 2009 Nov 25. French. PubMed PMID: 19942336.
20. Gaudreau G, **Costache V**, Houde C, Cloutier D, Montalin L, Voisine P, Baillot R. Recurrent sternal infection following treatment with negative pressure wound therapy and titanium transverse plate fixation. *Eur J Cardiothorac Surg.* 2010 Apr;37(4):888-92. doi: 10.1016/j.ejcts.2009.07.043. Epub 2009 Sep 22. PubMed PMID: 19775906.
21. **Costache V**, Chavanon O, St Raymond C, Sessa C, Durand M, Duret J, Bach V, Porcu P, Hacini R, Aubert A, Chaffanjon P, Cochet E, Brichon PY, Coltey B, Cracowski C, Bertrand D, Schwebel C, Barnoud D, Brambilla E, Lantuéjoul S, Ferretti G, Pin I, Blin D, Pison C; Grenoble Lung Transplantation Group. Dramatic improvement in survival after lung transplantation over time: a single center experience. *Transplant Proc.* 2009 Mar;41(2):687-91. doi: 10.1016/j.transproceed.2008.12.016. PubMed PMID: 19328957.
22. **Costache V**, Lantuejoul S, Stoica S, Fluttaz A, Hacini R, Brichon PY. Giant intracardiac neoplastic thrombus of a large cell neuroendocrine carcinoma of the lung. *Cardiovasc Pathol.* 2010 May-Jun;19(3):e85-7. doi: 10.1016/j.carpath.2008.10.010. Epub 2009 Jan 14. PubMed PMID: 19144545.
23. Porcu P, Chavanon O, Bertrand B, **Costache V**, Carley H, Bach V, Hacini R, Blin D. Giant aneurysm

- of the proximal segment of the left anterior descending artery in a patient with Behçet's disease--a combined approach. *Can J Cardiol.* 2008 Oct;24(10):e73-4. PubMed PMID: 18841264; PubMed Central PMCID: PMC2643166.
24. **Costache VS**, Chavanon O, Bouvaist H, Blin D. Early Amplatzer occluder closure of a postinfarct ventricular septal defect as a bridge to surgical procedure. *Interact Cardiovasc Thorac Surg.* 2007 Aug;6(4):503-4. Epub 2007 Apr 6.
 25. Chavanon O, **Costache V**, Bach V, Kétata A, Durand M, Hacini R, Thony F, Blin D. Preoperative predictive factors for mortality in acute type A aortic dissection: an institutional report on 217 consecutive cases. *Interact Cardiovasc Thorac Surg.* 2007 Feb;6(1):43-6. Epub 2006 Oct 10. PubMed PMID: 17669765.
 26. Sessa C, **Costache V**, Porcu P, Thony F, Blin D, Brichon PY, Magne JL. Tracheoinnominate artery fistula: combined endovascular and surgical management by emergency stent-graft placement followed by cryopreserved arterial allograft repair. *Ann Vasc Surg.* 2006 Nov;20(6):731-5. Epub 2006 Jul 8. PubMed PMID: 16830208.
 27. **Costache V** Chavanon O, Thony F, Blin D. Aortic arch embolization of an Amplatzer occluder after an atrial septal defect closure: hybrid operative approach without circulatory arrest. *Eur J Cardiothorac Surg.* 2005 Aug;28(2):340-2. PubMed PMID: 15939606.
 28. **Costache VS**, Renaud C, Brouchet L, Toma T, Le Balle F, Berjaud J, Dahan M. Complete tracheal rupture after a failed suicide attempt. *Ann Thorac Surg.* 2004 Apr;77(4):1422-3. PubMed PMID: 15063279.
 29. Toma CP, Serban DN, **Costache V**, Branisteanu DD. Characteristics and possible mechanisms of low-Na⁺ induced contractions in rat aorta. *Naunyn Schmiedebergs Arch Pharmacol.* 1995 Jul;352(1):88-93. PubMed PMID: 7477430.
 30. **Costache V** et al. I shouldn't be alive, bone marrow biopsy . *European Journal of Cardio-Thoracic Surgery* 0 (2012) 1-1.
 31. **Costache V** et al. L'Ostéosynthèse sternale par plaques en titane (OSPT), indications et technique chirurgicale. *Journal de Chirurgie Thoracique et Cardio-Vasculaire* Vol 15, No. 2, (2010) 104-108.
 32. **Costache V.**, Chavanon O, Blin D; Percutaneous closure of a postinfarct ventricular septal defect as a bridge to surgical closure. *Interactive CardiovascularThoracic Surgery*,8, 2007
 33. V. Bach, O. Chavanon, C. Broux, S. Tramaille, D. Irlès, **V. Costache**, F. Thony and D. Blin ; 'Prise en charge thérapeutique des ruptures traumatiques aiguës de l'isthme aortique. Revue bibliographique' *ITBM-RBM*, Volume 26, Supplement 1, September 2005, Pages S29-S34
 34. JL Faucheron, **Costache V**, Chafanjon Ph ; 'Hernies oesophagiennes, conduite à tenir' *Gastroenterologie Clinique*, October 2003
 35. **Costache V.**, Toma C., Branisteanu D.D. (1994) ; "The effects of low-Na⁺ and ouabain on isolated rat aorta contractility" ; *Eur. J. Cell Motility* ; Sept.1994

Capitole în cărți de specialitate

1. Moldovan Horatiu, Molnar Adrian, **Costache Victor**, Bontas Ecaterina. "Infective Endocarditis in Intravenous Drug Users: Surgical Treatment". *Infective Endocarditis*, DOI: <http://dx.doi.org/10.5772/intechopen.84708>, Submitted: November 7th 2018Reviewed: January 24th 2019, Published: March 1st 2019

2. Moldovan Horatiu, Molnar Adrian, **Costache Victor**, Bontas Ecaterina. "Surgical Strategy in Tricuspid Endocarditis. Right Heart Pathology from Mechanism to Management". Editors: Silviu Ionel Dumitrescu, Ion C. Tintoiu, Malcolm John Underwood (eds.). ISBN 978-3-319-73763-8. DOI <https://doi.org/10.1007/978-3-319-73764-5> SPRINGER -March 2018, pp743-754.
3. **VS. Costache**, R. Popa, and S. Sultan. "Vascular Surgery in Romania" page 319, Vascular Surgery, Springer, 2017, ISBN 978-3-319-33743-2, DOI 10.1007/978-3-319-33-745-6.
4. **Victor S. Costache**, Horatiu Moldovan, Andreea Costache, Adrian Boiceanu, Adrian Santa, Dan-Mihai Dorobantu, Sherif Sultan. "Treatment of complex aortic aneurysms and dissections with the Multilayer Flow Modulator: Romanian registry experience". 2017 EDIZIONI MINERVA MEDICA, ISBN 978-88-7711-891-2.
5. **Costache V** et. All. "Handbook of Interventions for Structural Heart and Peripheral Vascular Disease"; page 348, chapter 22:" The Use of MFM in the Endovascular Treatment of Thoracoabdominal Aortic Aneurysm and Aortic Dissection"; Jaypee Brothers Medical Publishers (P) Ltd. ; 2016, ISBN: 978-93-5152-990-3
6. **Costache V**. "History of Myocardial protection, in Dawn and Evolution of Cardiac Procedures", Springer 2012 ISBN 978-88-470-2399-4
7. **Costache V** . "Infectiile mediastinului". Junimea 2010 ISBN 978-973-37-1459-0
8. **Costache V** . "Lung cancer" in; "Thoracic Surgery Course"; pp 69-93; ed. Alfa, ISBN 973-8278-00-7; lasi in 2001.
9. **Costache V**. "Thoraco-abdominal aortic aneurysms Management". College of Vascular Surgery, Grenoble, December 2007.
10. **Costache V**. "Pericardium surgery". Heart and Thoracic Surgery College, Narbonne, October 2007.
11. **Costache V**. "Broken iliac aneurysm - the case", College of Vascular Surgery, Grenoble, Dec. 2006.

CONGRESE

1. **Costache VS**. "Role of MFM Uncovered Stents to treat type A aortic dissections: Indications, advantages, limitations and results". *VEITH Symposium, New York, USA, 19 - 23 November 2019*
2. **Costache A**, Chitic A, Solomon C, Melnic T, Farcas F, Costache V. Minimally invasive mitral and aortic valve replacement via right mini-thoracotomy with videoscapy and automated suturing. *ISMICS Annual scientific meeting, 18 - 20 June 2021, Poland.*
3. **Costache V**, Costache A, Solomon C, Chitic A, Bucurenciu C, Candea G. TEVAR for complicated thoracoabdominal aortic dissections with multilayer stents. *ISMICS Annual scientific meeting, 18 - 20 June 2021, Poland.*
4. **Costache V**. Minimally invasive aortic valve replacement in the era of transcatheter aortic solutions. *4TS Top to Toe Transcatheter Solutions Conference, 11 - 17 February, Dubai.*
5. **Costache V**. Long term results in the treatment of thoracoabdominal aortic dissections with multilayer stents. *4TS Top to Toe Transcatheter Solutions Conference, 11 - 17 February, Dubai.*
6. **Costache V.S**. "Minimally invasive mitral valve repair, 2019 update ". *East Meets West 2019 Congress ISEVS, Bucharest, Romania, 26-28 September 2019*

7. **Costache V.S.** "Autosuturing technology for minimally invasive aortic valve replacement ". *East Meets West 2019 Congress ISEVS*, Bucharest, Romania, 26-28 September 2019
8. **Costache V.S.** "How I do it - Minimally invasive mitral valve replacement ". *East Meets West 2019 Congress ISEVS*, Bucharest, Romania, 26-28 September 2019
9. **Costache S.V.** "NextCardio Project and Multilayer Stents Redefining the Management of Aortic Dissection". Society for Clinical Vascular Surgery - Boca Raton, 47th, Annual Symposium, March 16-20, 2019
10. **Costache S.V.**, Stiru O, Yeung K, Costache A, Solomon C, Melnic T, Sandu M, White R, Wheatley G. "Multi-Layer Flow- modulating Stents for the Treatment of Thoracoabdominal Aortic Dissections". 55th Annual Meeting, Abstract Book, *The Society of Thoracic Surgeons*, STS, San Diego, CA, USA, January 27-29 2019.
11. **Costache S.V.** "Multilayer Flow Modulating (MFM) Stents Are A Safe And Effective Option For Treating Complex Type B Aortic Dissections (TBADs): Based On A 4 Year Experience". *VEITHsymposium* , New York, USA, 13-17 November 2018
12. **Costache SV.** "Next Cardio - Introducing computational fluid dynamics in assessing the efficacy of aortic remodeling after TBAD". *East Meets West 2018 Congress ISEVS*, Romania, 4-6 October 2018
13. **Costache SV.** "Facilitators for minimal invasive aortic valve surgery". *East Meets West 2018 Congress ISEVS*, Romania, 4-6 October 2018
14. **Costache V.** "The role of multilayer flow modulator stents in the endovascular treatment of aortic dissection". The Society of Thoracic Surgery. *STS 54th Annual Meeting January 27, 2018 - January 31, 2018*, Fort Lauderdale, Florida
15. **Costache S.V.**, D.M.Dorobanțu, C.Goia, A.Costache, A.Voican, A.Molnar. "Treatment of abdominal aortic aneurysm with the bifurcated Streamliner device-results from NextCardio Vascular". *East Meets West Congress 2017*, Romania, 19-22 July 2017
16. **Costache S.V.**, H.Moldovan, R.Niculescu, S.Balanescu, C.Spanu, D.Popescu, M.Craciun, S.Rurac, G.Vasile, A.Ionescu, T.Cebotaru, C.Popa, M.Militaru, A.Molnar. "Current approaches for complex aortic arch diseases - TEVAR. MFM and hybrid procedures vascular". *East Meets West Congress 2017*, Romania, 19-22 July 2017,
17. **Costache, S.V.**, Juan A. Siordia, Jr., Charles J. Lutz, Jude S. Sauer, Peter A. Knight. "First Two Mitral Valve Replacements via Right Lateral Mini Thoracotomy Using New Automated Annular Suturing Technology 17th The international Society for Minimally Invasive Cardiothoracic Surgery". *ISMICS Annual Scientific Meeting - 7-10 June 2017 Rome, Italy*. <http://meetings.ismics.org/abstracts/2017/CMP3.cgi>
18. **Costache S.V.**, S.Sherif, N. Hynes, E.P.Kavanagh, F.Stefanov, A.Elhelali. "Twelve-Month Outcomes of patients treated for chronic symptomatic aortic dissection using the streamliner multilayer flow modulator". 53rd Annual Meeting, Abstract Book, *The Society of Thoracic Surgeons - STS*, Houston, Texas, USA, January 21-25 2017
19. **Costache V.** "Updated experience treating aortic dissections and complex AAAs with MLFM Bare Stents- when do they work and when don't work". *VEITHsymposium*, Cleveland, OH, USA, November 2017,
20. **Costache S. V.** "Endovascular Treatment of Aortic Dissection - Results from NextCardio". International Congress of Endovascular Surgery. *CICE 2017, Sao Paulo, Brazilia* 5-8 aprilie
21. **Costache V.** "Updated experience treating aortic dissections and complex AAAs with MLFM uncovered stents". *VEITHsymposium*, Cleveland, OH, USA, 15-19 November 2016
22. **Costache V.** "Endovascular treatment of the aortic dissection - Kinetic elephant Trunk "- Price

„Aurel Kaufmann” of the Romanian Society of the Vascular Surgery - SRCV Second Congress of the SRCV, Sibiu, October 2016

23. **Costache V.** “Treatment Of Aortic Dissection And Complex TAAAs With The MLFM Stent: Experience In More Than 30 Patients”. 43rd Annual Symposium on Vascular and Endovascular Issues, New York, NY, USA, 18 October 2015
24. **Costache V.** “The future looks bright - Multidisciplinary approach for lung resections in T4 disease with great vessel involvement” The 25th Annual Congress of Romanian Society for Radiotherapy and Medical Oncology, October 2015, Sibiu Romania, Supplement, Volume 21, 2015, ISSN 1844-0770
25. **Costache V.** “The total endovascular elephant trunk: the use of multilayer grafts in the endovascular treatment of aortic dissections”. 11th National Congress of the Romanian Society of Cardiovascular Surgery, October 2015, Poiana Braşov, Romania
26. **Costache V.** “The use of multilayer stents in the endovascular treatment of complex aortic aneurysms and aortic dissections”. 11th National Congress of the Romanian Society of Cardiovascular Surgery, October 2015, Poiana Braşov, Romania
27. **Costache V.** “Numerical simulation of fluid flow in CoCr multilayer modulators and the impact of flow lamination on the blood vessel wall affected by aneurism”. European Biotechnology Congress May 2015 - Journal of Biotechnology
28. **Costache V.** “Treatment of Aortic Dissection And Complex TAAAs With The MLFM Stent: Experience In More Than 30 Patients” *VEITHsymposium*, 17-21 November 2015
29. **Costache V.** “Treatment of Aortic Dissection and Complex Thoracoabdominal Aneurysm with MFM”. International Congress of Endovascular Surgery, CICE 2015, Sao Paolo, Brazil.
30. **Costache V.** “Broadcasted from Galileo Hospital Valinhos/SP (MFM)”. International Congress of Endovascular Surgery, CICE 2015, Sao Paolo, Brazil.
31. **Costache V.** “The New MFM Bifurcated Device for Thoracoabdominal Aortic Aneurysm”. International Congress of Endovascular Surgery, CICE 2015, Sao Paolo, Brazil
32. **Costache V.**, Ciobanu E., Bosanceanu M, Sherif S, Leatu C, Costache A., Voican A., Melnic T., Popovici I., Florescu N. “Enter the Phantom: Preliminary Results With The Use of The New Bifurcated MFM Device in The Endovascular Treatment of Abdominal and Thoracoabdominal Aneurysms”. 64th ESCVS International Congress of the European Society of Cardiovascular and Endovascular Surgery, Istanbul, 26 - 29 March 2015
33. **Costache S.V**, Forescu N., Ciobanu E., Sultan S., Bosanceanu M. “The Use of MFM Technology in the Treatment of Thoracoabdominal Aortic Aneurysm and Aortic Dissection Pathology: A Single Center Experience”. 51st Annual Meeting, San Diego, California, January 24-28, 2015
34. **Costache V.**, Tigănescu V. “Numerical simulation of fluid flow in CoCr multilayer modulators and the impact of flow lamination on the blood vessel wall affected by aneurysm”. May 2015. Journal of Biotechnology.
35. N. Florescu, Emanuela Ciobanu, Sherif Sultan, V Tigănescu, Cristina Moisei, M Chiloflisch, M Bosanceanu, Sorina Fiat , **V. Costache**. “The use of MFM Technology in the treatment of Thoraco-abdominal aortic aneurysm and aortic Dissection Pathology - A single Center experience” 10th Romanian, Serbian Conference of Surgery, SIBIU, November 2014
36. **Costache S.V**, E. Ciobanu. “Combined techniques for the treatment of acute aortic dissection: Surgery - multilayer modulator - case”. The First Congress of the Romanian Society for Vascular Surgery, Sibiu, October. 2014

37. **V. Costache**, C. Moisei, M. Chiloflisci, E. Ciobanu, A. Voican, Florescu N. "The Phantom Menace - the impact of technology in the treatment of aneurysms MFM thoraco-abdominal". The First Congress of the Romanian Society for Vascular Surgery, Sibiu, October 2014
38. **V. Costache**, "Vouchers thoracic stabilization by Matrix Rib", Autumn Days of the French Society of the cardiovascular and thoracic surgery, SFCTCV, Paris 2012
39. Chavanon O, Durand M., **Costache V**, Pison C., Blin D. "*Transplantation pulmonaire à Grenoble - Quel enseignement après 105 greffes ?*" 156-60, ISBN : 978-2-916-39904-1
40. **Costache V**, Chavanon O, St Raymond C, Sessa C, Durand M, Duret J, Bach V, Porcu P, Hacini R, Aubert A, Chaffanjon P, Brichon P-Y, Coltey B, Cracowski C, Bertrand D, Schwebel C, Barnoud D, Brambilla E, Lantuéjoul S, Ferretti G, Pin Blin D, Pison C. "Improving outcomes in lung transplantation Grenoble"; 7th Annual Congress of the Francophone Society of Transplantation, Lyon 2007.
41. Bach V, Durand M, Pison C, Blin D, Protar D, **Costache V**, Chavanon O. "The Interest of ECMO in lung transplantation". 7th Annual Congress of the Francophone Society of Transplantation, Lyon 2007
42. **Costache V.**, "ECMO - ECLS" College of Cardiac Surgery and Thoracic, Narbonne, in March 2006
43. **Costache V.** "Brachiocephalic arterial trunk implantation of the heartbeat" College of Vascular Surgery, Grenoble, December 2004
44. Vouaillat H, **Costache V.** "*Reconstruction of Calcibon in thoracic spine trauma*", *Congres de la Societe francaise de Chirurgie Orthopedique et Traumatologieqie - SOFCOT* 2004
45. **Costache V.**, Faucheron JL. "*Pseudocyst pancreatic laparoscopic measures*". *Jurnale chirurgicale* Lyon, February 2004
46. **Costache V.**, Faucheron JL, "*Measures in case of laparoscopic rectal prolaps*", *Reviste chirurgicale* Grenoble, December 2003
47. **Costache V**, Renaud C, Brouchet L, Le Balle F, Dahan M; "Traumatic rupture of the trachea". Congress of the French Society of Thoracic and Cardiovascular, Clermont Ferrand 2003
48. Martu D., Radulescu L., Mardiros G., **Costache V.** "Our experience in using different pieces of cancerologie constructive ENT surgery "; Cardio-Vascular Innovations. CVI French ENT Congress, Paris oct.1999.
49. **Costache V.**, Toma C., Branisteanu D.D. "Efectul lipozomilor blocati de heparina asupra rezistentei arterelor umane" ; Al XV-lea Congres European despre Muschi, Italia, Sept.1995.
50. **Costache V.** et al. " Study Methods contractility small vessels "; Iasi Student Scientific Conference, May 1995.
51. **Costache V.** et al. "The complications of laparoscopic cholecystectomy. A study of 350 cases.". Iasi Student Scientific Conference; May 1995.
52. Daraba R., **Costache V.** "Anatomical variations of facial nerve tract ". The International Congress of Students, Poland, May 1995.
53. **Costache V.**, Toma C., Branisteanu D.D. "Features and potential mechanisms of aortic contractility in rats induced by low levels of Na + ". Al XIV European Congress on Moss, Germany, Sept.1994.
54. **Costache V.** et al. "Ca ATP structure and function"; Iasi Student Scientific Conference, May 1994.

55. Costache V. et al. "The importance of GABA receptor structure"; Iasi Student Scientific Conference, May 1994.
56. Szalontay A., Costache V. "Kidney Cancer Diagnostic Techniques"; Iasi Student Scientific Conference, May 1994.
57. Costache V. et al. "MRI - the physical principle"; Iasi Student Scientific Conference, May 1993

ACTIVITATE DE CERCETARE

Director granturi obținute prin competiție

- | | |
|----------------|---|
| 2016 - prezent | Cercetare de noua generație prin asistența computerizată în managementul patologiilor cardiovasculare (NectCARDIO) POC-A1-A1.1-E-2015
http://nextcardio.ro/ |
| 2015 | Proiectul "Saving Hearts: Innovative Methods and Techniques in Cardiovascular Disease Treatment"
2014-1-RO01-KA203-002970
http://savinghearts.eu/work-programme/ |
| 2014 - 2017 | Proiectul "Erasmus Mundus Mobility with East Asia 2014" (EMMAE14)
545719-EM-1-2013-1-FR-ERA MUNDUS EMA21 |
| 2010 - 2013 | STRATO Study |

Responsabil partener granturi obținute prin competiție

- | | |
|-------------|---|
| 2018 - 2020 | Proiect "Educating students for developing high quality research skills (ENSURE), Norway"
EY-COP-0049
http://www.eea4edu.ro/despre-program/ |
| 2013 | Proiectul European LLP - Leonardo da Vinci / Transfer of Innovation - "Orientare digitală: Software de consultanță personalizată în plasarea pe piața muncii și dezvoltarea carierei profesionale" |

ACTIVITATE DIDACTICĂ

- | | |
|----------------|--|
| 2019 - prezent | Director curs : Chirurgie toracică
Facultatea de Medicină, Universitatea "Lucian Blaga" Sibiu |
| 2017 - prezent | Conducător doctorat
Teza: "Impactul tratamentului endovascular al disecției aortice asupra colateralelor aortei toracoabdominale"
Teza: "Noi metode de monitorizare și evaluare a circulației cerebrale și a funcțiilor |

cognitive în urma tratamentului endovascular al bolilor aortice complexe”
 Teza: “Noi modaliti de evaluare a bolii carotidiene-impactul noilor metode
 imagistice combinate cu analiza prin dinamica computerizata a fluidelor (CFD)”

- 2018 - prezent **Director curs: Anatomie patologică**
 Facultatea de Biologie, Universitatea "Lucian Blaga" Sibiu
 Facultatea de Farmacie, Universitatea "Lucian Blaga" Sibiu
- 2014 - prezent **Director curs: Chirurgie cardiovasculara**
 Facultatea de Medicină, Universitatea "Lucian Blaga" Sibiu

MEMBRU AL ASOCIAȚIILOR PROFESIONALE

- 2017 - Prezent International Society of Endovascular Surgery - ISEVS
 Membru
- 2017 - Prezent General International Society of Vascular Surgery
 Secretar
- 2007 - Prezent European Journal of Cardiovascular and Thoracic Surgery (EJCTS)
 Membru al comitetului de evaluare
- 2015 - Prezent Societatea Română de Chirurgie Endovasculară și Terapie Valvulară Transcateter
 Președinte
- 2015 - Prezent Comisia Cardiovasculara a Ministerului Sănătății România
 Președinte, membru
- 2015 - 2021 Comisia Medicala a Facultății de Medicină
 Universitatea Lucian Blaga Sibiu
 Membru
- 2015 - Prezent Asia Pacific Vascular Society (APVS)
 Membru
- 2015 - Prezent International Society of Endovascular Specialists - CICE
 Membru
- 2015 - Prezent VEITH Symposium
 Membru
- 2013 - Prezent Colegiul Medicilor din România
 Membru
- 2011 Societatea franceză de chirurgie toracică si cardiovasculară (SFCTCV)
 Membru
- 2007 - Prezent Colegiul Medicilor din Franța
 Poziția nr . 8766; ADELI referință: 381087667

EXPERTIZĂ CLINICĂ

Medic primar în chirurgie cardiacă, vasculară și toracică, tratament endovascular cu peste 3000 de intervenții cardiovasculare realizate ca prim operator precum și cu peste 250 proceduri efectuate în ultimele 12 luni

Chirurgie cardiacă	72 proceduri de by-pass coronarian
	53 Înlocuire de valvă aortică prin minitoracotomie video asistată
	12 Înlocuire de valvă aortică prin minitoracotomie cu valvă sutureless
	62 Proceduri TAVR
	12 Înlocuire de valvă mitrală prin sternotomie
	54 Proceduri minim invazive pe valvă mitrală
	6 Disecții de aortă
	15 Proceduri la nivelul aortei (Wheat, Bentall și aortic root remodelling)
Chirurgie vasculară și endovasculară	
	15 EVAR și TEVAR pentru anevrismele toracoabdominale, AAA și tipul B de anevrism aortic
	36 Proceduri la nivelul carotidei
	11 By-pass la nivelul arterelor periferice
	7 Proceduri de dilatație la nivel iliac
Premieră chirurgicală în Franța	
	Reconstrucție de perete toracic cu sterna titanium plates
	Reconstrucție de perete toracic cu Matrix Rib
Premieră chirurgicală în România	
	Prima procedură Intuity sutureless valve implantation
	Prima procedura transaortic TAVR
	Prima procedură Perceval sutureless valve implantation
	Prima procedură de implantare sutureless valve prin minitoracotomie
	Prima procedură endovasculară la nivelul aortei pentru anevrism toracoabdominal
	Prima procedură endovasculară pentru tipul B de disecție aortică
Premieră mondială	
	Prima procedură endovasculară pentru anevrismul toracoabdominal cu stent multilayer graft bifurcat

Competențe organizaționale/manageriale

- **Leadership** - experiență profesională în management obținută în urma responsabilităților ca șef de secție dar de asemenea dobândită și datorită profesiei - peste 1400 intervenții chirurgicale ca și prim operator (by-pass coronarian, înlocuire valvei aortice, chirurgie aortă ascendentă, chirurgie valvă mitrală, suport circulator, transplant cardiac și pulmonar)
- **Competențe organizaționale** - cofondator al primului centru de chirurgie cardiovasculară într-un spital public-privat în Franța (Annecy, Lemanic area), cofondator al primului centru privat universitar de chirurgie cardiovasculară și toracică din România președinte al comisiei naționale al chirurgilor cardiovasculari din cadrul Ministerului Sănătății din
- **Investigator proiecte de cercetare** - multicentru de cercetare cu rezultate publicate în peste 100 reviste naționale și internaționale
- **Fund raising** - experiența la nivel de management

Competențe dobândite la locul de muncă

- Experiență vastă în chirurgie cardiacă dobândită prin efectuarea a peste 3000 de intervenții ca și prim operator (CABG, înlocuirea de valvei aortice, intervenții aorta ascendentă, intervenții valvă mitrală, suport

circulator, transplant cardiac și pulmonar), peste 800 intervenții chirurgicale minim-invazive pentru valva mitrală și aortică, TAVR, sutureless, și peste 1,700 intervenții de chirurgie cardiacă ca și operator secund, peste 400 de intervenții de chirurgie vasculară vasculare și endovasculară (TEVAR, EVAR, intervenții la nivelul arterelor carotide, boala arterelor periferice), peste 200 intervenții de chirurgie toracică (rezeecție pulmonară, reconstrucție de perete toracic, rezeecție traheală)

Competențe informatice

- Pachet Microsoft Office
- Prezi

Permis de conducere

- A, B

Referințe

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