



ΔΗΜΟΚΡΙΤΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΡΑΚΗΣ | DEMOCRITUS UNIVERSITY OF THRACE

Curriculum Vitae

DMOS KARANGELIS MD, PhD

MAY 2025



Dimos Karangelis, MD, PhD

Date of Birth: 23rd of January 1980

Place of Birth: Larisa, Greece

Current Address: 25th Martiou street 2, Alexandroupolis, Greece

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CURRENT APPOINTMENT

May 2021-up to date

Associate Professor of Cardiothoracic
Surgery, Democritus University Of Thrace,

University Hospital of Alexandroupolis,
Greece

PREVIOUS APPOINTMENTS

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|----------------------------|---|
| March 2017 – February 2019 | Cardiac Surgeon, Athens Medical Center, Athens, Greece |
| February 2019- April 2021 | Cardiac Surgeon, Mitera hospital, Marousi, Athens, Greece |

CLINICAL FELLOWSHIP

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| Jul 15 – Jan 2017 | Clinical Fellow, Department of Surgery, University of Toronto, Division of Cardiac Surgery, St Michael's Hospital |
| February - March 2018 | Clinical Attachment, Department of Cardiothoracic Surgery, Royal Wolverhampton hospital, United Kingdom |

EDUCATION

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|-------------------------|---|
| 21/09/1998 – 23/07/2004 | Degree in Medicine, Aristotle University of Thessaloniki, School of Health Sciences, Department of Medicine, Greece. |
| 24/07/2006-18/10/2010 | Research - PhD in Medicine, Department of Cardiovascular and Thoracic Surgery, University of Thessaly, Larissa, Greece. Thesis: “Glycosaminoglycans and atherosclerosis: monitoring serum chondroitin sulfate in patients submitted to coronary artery bypass grafting surgery” Grade: “Excellent |
| 28/07/2014 | Certificate of Completion in Greece-Specialist Registry (Cardiothoracic surgery) |

Athens, Greece Medical Association Reference number 075668

General Medical Council GMC (United Kingdom) - GMC Reference Number: 7122975

College of Physicians and Surgeons of Ontario Canada (CPSO), Registration number 107122

RESIDENCY AND APPOINTMENTS

11/8/2014 –28/02/15 Associate Specialist in the Department of Cardiac Surgery, Brighton and Sussex University Hospitals, United Kingdom

Residency months in brackets (Cardiothoracic Surgery-84)

19/7/2013-20/4/14 Resident in the Department of Cardiac Surgery, Onassis Cardiac Centre, Athens, Greece (**9 months**)

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|-------------------------|---|
| 20/3/2012-29/6/2013 | Cardiothoracic Clinical Fellow (SpR) Resident post- in the Department of Cardiothoracic Surgery, Manchester Royal Infirmary, Manchester, UK, (15 months) |
| 24/08/2011- 23/2/2012 | Cardiothoracic Clinical Fellow (SHO)- Resident post- Department of Cardiothoracic Surgery, Southampton University Hospital, Southampton, UK, (6 months) |
| 17/11/2010 -17/8/2011 | Resident Medical Officer of the 404 Military Hospital Larisa, Department of Surgery, Greece- compulsory Military service |
| 28/04/2009 - 01/11/2010 | Resident in the Department of Cardiothoracic Surgery, University Hospital of Larissa, Greece (15 months) |
| 27/09/2006 - 27/03/2009 | Resident in the Department of General Surgery, General Hospital of Larissa, Greece (30 months) |
| 24/09/2004 - 13/03/2006 | Compulsory service as General Practitioner, Health Centre of Farsala, Greece (16 months) |

TRAINING COURSES

June 2006: ATLS course for Doctors by the ACS Committee on trauma. Department of General Surgery, University Hospital of Larissa, Greece.

April 2010: European School Thoracic Level Mixed 2010 Bergamo, Italy 12-16 April 2010

February 2012: Cardiac Surgical Unit Advanced Life Support held at Southampton General Hospital

April 2012: Aortic Valve Replacement Wet Lab held at Cardiac Surgery Unit, Manchester Royal Infirmary

January 2013: TOE Course organised by the Department of Cardiac Anaesthesia in Manchester Royal Infirmary

May 2015: Statistical Analysis Data Course with the SPSS, which took place in the Biometric lab of the University Of Thessaly at Volos, Greece

September 2015: Course on Research Ethics. TCPS 2 Core: Ethical Conduct for Research Involving Humans

January 2016: Cardiac Surgical Unit Advanced Life Support (CALS) Revalidation Course

December 2017 - 10th International Leipzig-Dallas Meeting (EACTS Course in Cardiovascular Innovation)

May 2022 Training Course for Minimally Invasive Heart Valve Surgery Innsbruck, LKI Universitätskliniken, Austria, MAY 8 – 11, 2022

November 2022 Maze IV Training on surgical AF patient management for concomitant ablation 3rd November 2022 - KU Leuven - Faculty of Medicine Leuven/ Belgium

June 2023 Educational program on the EDWARDS INTUITY Elite valve system

provided by Edwards lifesciences held in Poland

December 2024 Valve Experience Course held in Berlin - Live exploration of advanced surgery techniques (December 3rd to 5th, 2024) Organized by Edwards Lifesciences

SCHOLARSHIPS

Fully funded scholarship sponsored by the ***Endoscopic Cardiac Surgeons Club*** for 1-month clinical attachment at the Interbalkan Medical Center, Thessaloniki, Greece to gain insight and advance my dexterities on minimally invasive/endoscopic cardiac surgery.

SUPERVISION OF DOCTORAL THESES

Principal supervisor of 2 ongoing PhD theses at DTH.

1. "The use of Del Nido cardioplegia in ischemic myocardium and extended ischemic junction times versus blood cardioplegia in the adult population"

PhD Cand: Antonis Samothrakis

2. "Proepsin levels as a marker of systemic inflammation in patients with type 2 diabetes undergoing cardiac surgery and association with postoperative outcomes".

PhD Cand : Theodora Stougiannou

ACADEMIC EDITOR

https://www.mdpi.com/journal/jcm/special_issues/297A72TN5S

Special issue editor in the *Journal of clinical medicine* . IF 3.

Title of the issue : Current Practice and Future Perspectives in Aortic Surgery

CTSNET VIDEOS

REPAIR OF A GIANT RIGHT CORONARY ARTERY ANEURYSM

by Dimos Karangelis, Zisis Gerontitis, Theodora Stougiannos, Dimitrios Mikroulis

<https://www.youtube.com/watch?v=6zQW-9u6DQg>

<https://www.ncbi.nlm.nih.gov/pubmed/?term=karangelis+d>

1. Endoscopic Mitral Valve Tumor Removal and Mitral Valve Repair.

Karangelis D, Lolakos K, Bartolozzi H, Pitsis A. *Innovations (Phila)*. 2025 Mar-Apr;20(2):125-126. doi: 10.1177/15569845251320639.

2. Olfactory Receptors and Aortic Aneurysm: Review of Disease Pathways.

Stougiannou TM, Christodoulou KC, **Karangelis D**. *J Clin Med*. 2024 Dec 19;13(24):7778. doi: 10.3390/jcm13247778. PMID: 39768700 **Free PMC article**. Review.

3. In Vitro Models of Cardiovascular Disease: Embryoid Bodies, Organoids and Everything in Between.

Stougiannou TM, Christodoulou KC, **Karangelis D**. *Biomedicines*. 2024 Nov 27;12(12):2714. doi: 10.3390/biomedicines12122714. PMID: 39767621 **Free PMC article**. Review.

5. Hybrid Aortic Arch Replacement with Frozen Elephant Trunk (FET) Technique: Surgical Considerations, Pearls, and Pitfalls. **Karangelis D**, Stougiannou TM, Christodoulou KC, Bartolozzi H, Malafi ME, Mitropoulos F, Mikroulis D, Bena M. *J Clin Med*. 2024 Nov 22;13(23):7075. doi: 10.3390/jcm13237075. PMID: 39685533 **Free PMC article**. Review.

6. Presepsin Levels in Infection-Free Subjects with Diabetes Mellitus: An Exploratory Study. Kouroupis D, Zografou I, Balaska A, Reklou A, Varouktsi A, Paschala A, Pырpasopoulou A, Stavropoulos K, Vogiatzis K, Sarvani A, Doukelis P, **Karangelis D**, Dimakopoulos G, Kotsa K, Doumas M, Koufakis T. *Biomedicines*. 2024 Aug 29;12(9):1960. doi: 10.3390/biomedicines12091960.

7. It all comes down to one: A rare case of a single coronary artery. Christodoulou KC, Stougiannou TM, Rigatou A, **Karangelis D**. *Clin Case Rep*. 2024 Aug 20;12(8):e9353. doi: 10.1002/ccr3.9353. eCollection 2024 Aug.

8. An Armored Heart: A Diagnosis Hidden in Plain Sight. Malkots B, **Karangelis D**, Karamitsos T, Chalikias G, Tziakas D. *JACC Case Rep.* 2024 Aug 7;29(15):102412. doi: 10.1016/j.jaccas.2024.102412. eCollection 2024 Aug 7.
9. Early initiation of sodium-glucose cotransporter 2 inhibitors in patients undergoing cardiac surgery: Are we ready for prime time? **Karangelis D**, Koufakis T. *Int J Cardiol.* 2024 Nov 1;414:132430. doi: 10.1016/j.ijcard.2024.132430. Epub 2024 Aug 6.
10. Progenitor Cell Function and Cardiovascular Remodelling Induced by SGLT2 Inhibitors. Stougiannou TM, Christodoulou KC, Koufakis T, Mitropoulos F, Mikroulis D, Mazer CD, **Karangelis D**. *Front Biosci (Landmark Ed).* 2024 Apr 9;29(4):145. doi: 10.31083/j.fbl2904145.
11. To Repair a Broken Heart: Stem Cells in Ischemic Heart Disease. Stougiannou TM, Christodoulou KC, Dimarakis I, Mikroulis D, **Karangelis D**. *Curr Issues Mol Biol.* 2024 Mar 8;46(3):2181-2208. doi: 10.3390/cimb46030141
12. An asymptomatic double aortic arch with separate right vertebral artery and left subclavian artery originating from Kommerell Diverticulum combined with congenital asplenia and absence of celiac trunk. Georgakarakos E, **Karangelis D**, Stylianou C, Karaolani GI, Triantafyllou N, Fiska A. *Folia Morphol (Warsz).* 2023 Nov 14. doi: 10.5603/fm.96447
13. Cardiotrophin-1 in Asymptomatic Hypertensive Patients With Mild Diastolic Dysfunction: Potential Prognostic Value in Early Stages of Hypertensive Heart Disease. Vlahodimitris I, **Karangelis D**, Moschaki M, Moysakis I, Christodoulou KC, Perrea DN, Mourouzis I, Papadogiannis D. *Cureus.* 2023 Oct 5;15(10):e46516. doi: 10.7759/cureus.46516. eCollection 2023
14. Promising Novel Therapies in the Treatment of Aortic and Visceral Aneurysms. Stougiannou TM, Christodoulou KC, Georgakarakos E, Mikroulis D, **Karangelis D**. *J Clin Med.* 2023 Sep 10;12(18):5878. doi: 10.3390/jcm12185878.
15. Methemoglobin as a marker of acute anemic stress in cardiac surgery. Mistry N, Hare GMT, Shehata N, Kramer RS, Fawzy HF, Baker RA, Carmona P, Saczkowski R, Filipescu D, Alphonsus CS, Rochon A, Gregory AJ, Khanykin B, Leff JD, Mateo E, **Karangelis D**, Tellez JC, Saha T, Ko DT, Wijeyesundera DN, Verma S, Mazer

CD.iScience. 2023 Jul 20;26(8):107429. doi: 10.1016/j.isci.2023.107429.
eCollection 2023 Aug 18

16. Teaching vascular anatomy: the anatomy we know, the anatomy we see or the anatomy we need? Georgakarakos E, Papadopoulou M, **Karangelis D**, Fiska A. *Surg Radiol Anat.* 2023 Sep;45(9):1155-1164. doi: 10.1007/s00276-023-03203-x. Epub 2023 Jul 17. PMID: 37458825 Review.
17. Vieussens' Arterial Ring: Historical Background, Medical Review and Novel Anatomical Classification. Christodoulou KC, Stakos D, Androutsopoulou V, Chourmouzi-Papadopoulou M, Tsoucalas G, **Karangelis D**, Fiska A. *Cureus.* 2023 Jun 26;15(6):e40960. doi: 10.7759/cureus.40960. eCollection 2023 Jun. PMID: 37378305
18. Current knowledge and contemporary management of non-A non-B aortic dissections. Christodoulou KC, **Karangelis D**, Efenti GM, Sdrevanos P, Browning JR, Konstantinou F, Georgakarakos E, Mitropoulos FA, Mikroulis D. *World J Cardiol.* 2023 May 26;15(5):244-252. doi: 10.4330/wjc.v15.i5.244.
19. Management of Type 2 Diabetes in Acute Coronary Syndromes: Current State and Future Perspectives. Koufakis T, **Karangelis D**, Androutsopoulou V, Mikroulis D, Kotsa K. *Curr Pharm Des.* 2023;29(5):365-367. doi: 10.2174/1381612829666230210161306. PMID: 36762749
20. Giant aneurysm of the circumflex artery. **Karangelis D**, Alexiou C, Christodoulou KC, Gerontitis Z, Mikroulis D. *Clin Case Rep.* 2022 Nov 16;10(11):e6521. doi: 10.1002/ccr3.6521. eCollection 2022 Nov.
21. Stem cell genes in atheromatosis: The role of Klotho, HIF1 α , OCT4, and BMP4. Mylonas KS, **Karangelis D**, Androutsopoulou V, Chalikias G, Tziakas D, Mikroulis D, Iliopoulos DC, Nikiteas N, Schizas D. *IUBMB Life.* 2022 Oct;74(10):1003-1011. doi: 10.1002/iub.2667. Epub 2022 Aug 17.

22. Neuroprotective strategies with circulatory arrest in open aortic surgery - A meta-analysis. Manoly I, Uzzaman M, **Karangelis D**, Kuduvalli M, Georgakarakos E, Quarto C, Ravishankar R, Mitropoulos F, Nasir A. Asian Cardiovasc Thorac Ann. 2022 Jul;30(6):635-644. doi: 10.1177/02184923211069186. Epub 2022 Jan 11
23. Minimally invasive cardiac surgery: in the pursuit to treat more and hurt less. **Karangelis D**, Androutsopoulou V, Tzifa A, Chalikias G, Tziakas D, Mitropoulos F, Mikroulis D. J Thorac Dis. 2021 Nov;13(11):6209-6213. doi: 10.21037/jtd-21-1498.
24. Update on the TREGO endograft device: overview of its safety and efficacy. Georgakarakos E, Karaolanis GI, Argyriou C, Papatheodorou N, **Karangelis D**, Georgiadis GS. Expert Rev Med Devices. 2022 Jan;19(1):31-35. doi: 10.1080/17434440.2022.2020093. Epub 2021 Dec 22.
25. An alternative approach for complicated prosthetic aortic valve endocarditis. **Karangelis D**, Krommydas A, Mitropoulos FA. Surg Case Rep. 2021 May 26;7(1):131. doi: 10.1186/s40792-021-01195-7.
26. Aspergillus Endocarditis of Pulmonary Homograft in a Congenital Heart Disease Patient. **Karangelis D**, Tzifa A, Mylonas KS, Gatzoulis MA, Kavvouras C, Mitropoulos F. World J Pediatr Congenit Heart Surg. 2022 Jan;13(1):99-101. doi: 10.1177/2150135120988640. Epub 2021 May 6
22. Cardio-Protective Effects of Sodium-Glucose Co-Transporter 2 Inhibitors: Focus on Heart Failure. **Karangelis D**, Mazer CD, Stakos D, Tzifa A, Loggos S, Verma S, Mitropoulos F. Curr Pharm Des. 2021;27(8):1051-1060.

23. Surgical repair of anomalous aortic origin of coronary artery in adults. **Karangelis D**, Mylonas KS, Loggos S, Adreanides E, Tzifa A, Mitropoulos F. Asian Cardiovasc Thorac Ann. 2021 Jan;29(1):51-58. doi: 10.1177/0218492320957818.
24. Right Anterior Mini-Thoracotomy for Discrete Fibromembranous Subaortic Stenosis. **Karangelis D**, Loggos S, Mitropoulos FA. World J Pediatr Congenit Heart Surg. 2020 Sep;11(5):664-665. doi: 10.1177/2150135120932520.
25. The aberrant subclavian artery: approach to management. **Karangelis D**, Loggos S, Tzifa A, Mitropoulos FA. Curr Opin Cardiol. 2020 Nov;35(6):636-642. doi: 10.1097/HCO.0000000000000793. PMID: 32852349 Review.
26. Levoatriocardinal vein: a rarely recognized cause of recurrent cardiac and cerebral thromboembolic events.
Karangelis D, Avramidis D, Mousiama T, Karamitsos T, Mitropoulos F, Tzifa, Can J Cardiol In Press doi.org/10.1016/j.cjca.2019.11.007
27. Minimally Invasive versus Conventional Mitral Valve Surgery. A Clinical Equipose or Not Really? **Karangelis D**, Loggos S, Mitropoulos F. J Invest Surg. 2020 Mar 20:1-4. doi: 10.1080/08941939.2020.1741746. Online ahead of print. PMID: 32193965 No abstract available
28. Surgical resection of a cardiac lipoma of the right ventricle. **Karangelis D**, Palios J, Tzertzemelis D, Economidou S, Panagiotou M. Ann Card Anaesth. 2019;22(4):452–454. doi: 10.4103/aca.ACA_87_18

29. Evaluation of Three Different Techniques for the Closure of Ventricular Septal Defects **Karangelis D**, Loggos S, Tzifa A, Mitropoulos F. J Invest Surg. 2019;1–4. doi:10.1080/08941939.2019.1665152
30. Late in-hospital Rupture of a Chronic Post-traumatic Pseudoaneurysm. **Karangelis D**, Tzertzemelis D, Demis A, Panagiotou M. Heart Views. 2018 Oct-Dec;19(4):146-149. doi: 10.4103/HEARTVIEWS.HEARTVIEWS_62_18.
31. Into the deep blue sea: A review of the safety of recreational diving in people with diabetes mellitus. Koufakis T, Karras SN, Mustafa OG, **Karangelis D**, Zebekakis P, Kotsa K. Eur J Sport Sci. 2019;1–16. doi:10.1080/17461391.2019.1606286
32. Palliattive Surgical Resection of an Extensive Metastatic Cardiac Myxofibrosarcoma. **Karangelis D**, Mazine A, Yanagawa B, Latter D. Clin Med Insights Case Rep. 2019 Apr 1;12:1179547619837312. doi: 10.1177/1179547619837312. eCollection 2019.
33. Eighteen years of clinical experience with a modification of the Bentall button technique for total root replacement. **Karangelis D**, Tzertzemelis D, Demis AA, Economidou S, Panagiotou M. J Thorac Dis. 2018 Dec;10(12):6733-6741. doi: 10.21037/jtd.2018.11.61.
34. Considerations for Patients With Idiopathic Normal Pressure Hydrocephalus. **Karangelis D**, Malachias T, Sakellaridis T, Roubelakis A. J Cardiothorac Vasc Anesth. 2019 Apr;33(4):1176-1178. doi: 10.1053/j.jvca.2018.11.008. Epub 2018 Nov 14.
35. Non-A non-B aortic dissections: are we still in uncharted waters. **Karangelis D**, Tagarakis G. Eur J Cardiothorac Surg. 2019 Aug 1;56(2):423. doi: 10.1093/ejcts/ezy429. No abstract available.

36. Kommerell's Diverticulum and Aberrant Subclavian Artery: In Quest of the Optimal Therapy. **Karangelis D**, Panagiotou M. Ann Thorac Surg. 2019 Jun;107(6):1916. doi: 10.1016/j.athoracsur.2018.10.076. Epub 2018 Dec 7.
37. A braid of mitral chords. **Karangelis D**, Panagiotou M. Hellenic J Cardiol. 2018 Oct 23. pii: S1109-9666(18)30374-9. doi: 10.1016/j.hjc.2018.10.004. [Epub ahead of print] No abstract available.
38. Six-Month Outcomes after Restrictive or Liberal Transfusion for Cardiac Surgery. Mazer CD, Whitlock RP, Fergusson DA, et al. TRICS Investigators and Perioperative Anesthesia Clinical Trials Group. N Engl J Med. 2018 Sep 27;379(13):1224-1233. doi: 10.1056/NEJMoa1808561.
39. Dissection of an aberrant right subclavian artery. **Karangelis D**, Tzertzemelis D, Panagiotou M. Asian Cardiovasc Thorac Ann. 2018 Jun;26(5):420-421. doi: 10.1177/0218492318772770. Epub 2018 Apr 18
40. What is the optimal target for the second arterial graft in patients undergoing coronary bypass surgery? **Karangelis D**, Mazine A, Roubelakis A, Stavridis G. Interact Cardiovasc Thorac Surg. 2018 Apr 5. doi: 10.1093/icvts/ivy112
41. Aortic Arch. The Final Frontier in Cardiac Surgery. **Karangelis D**, Roubelakis A, Mikroulis D, Panagiotou M. J Invest Surg. 2018 Mar 20:1-4. doi: 10.1080/08941939.2018.1447054

42. Right internal thoracic artery or saphenous vein for grafting the right coronary artery? **Karangelis D**. J Thorac Cardiovasc Surg. 2018 Jan;155(1):229. doi: 10.1016/j.jtcvs.2017.07.023.
43. Restrictive or Liberal Red-Cell Transfusion for Cardiac Surgery. Mazer CD, Whitlock RP, Fergusson DA, et al. N Engl J Med. 2017 Nov 30;377(22):2133-2144. doi: 10.1056/NEJMoa1711818. Epub 2017 Nov 12. [**Karangelis D.- Investigator**]
44. Invited Commentary. The Royalty of Evidence: The Randomized Control Trials. **Karangelis D**, Roubelakis A, Tagarakis G. J Invest Surg. 2017 Oct 11:1-2. doi: 10.1080/08941939.2017.1377324
45. Distal embolization of a transcatheter valve in a valve complex: a bail out surgical approach. Panagiotou M, Manginas A, Kyriazis C, **Karangelis D**. Eur J Cardiothorac Surg. 2017 Dec 1;52(6):1229-1230. doi: 10.1093/ejcts/ezx267.
46. Morbidity After Cardiac Surgery in Patients With Adult Congenital Heart Disease in Comparison With Acquired Disease. **Karangelis D**, Mazine A, Narsupalli S, Mendis S, Veldtman G, Nikolaidis N. Heart Lung Circ. 2017 Jun 28. pii: S1443-9506(17)30526-7. doi:10.1016/j.hlc.2017.05.133.
47. Initial experience with xenograft bioconduit for the treatment of complex prosthetic valve endocarditis. Roubelakis A, **Karangelis D**, Sadeque S, Yanagawa B, Modi A, Barlow CW, Livesey SA, Ohri SK. Perfusion. 2017 Jan 1:267659117690250. doi: 10.1177/0267659117690250

48. Sutureless aortic valves: who is the right patient? Mazine A, Bonneau C, **Karangelis D**, Yanagawa B, Verma S, Bonneau D. *Curr Opin Cardiol*. 2017 Jan 13. doi: 10.1097/HCO.0000000000000371
49. What is the role of sutureless aortic valves in today's armamentarium? **Karangelis D**, Mazine A, Roubelakis A, Alexiou C, Fragoulis S, Mazer CD, Yanagawa B, Latter D, Bonneau D. *Expert Rev Cardiovasc Ther*. 2016 Dec 26:1-9. doi: 10.1080/14779072.2017.1273108
50. Treatment of a Pseudoaneurysm of the Ascending Aorta in Association with Aortopulmonary Fistula following Acute Type A Dissection.
Karangelis D, Raju, S, Dimarakis I, Roubelakis A, Fragoulis S, *Perfusion*. 2016 Jul 20. pii: 0267659116660186
51. Pseudoaneurysm of right internal mammary artery post vacuum assisted closure Therapy - a rare complication and literature review. Datta S, Manoly I, **Karangelis D**, Hassan R. *Ann Vasc Surg*. 2016 Feb; 31:207. e1-3. doi: 10.1016/j.avsg.2015.08.010.
52. Aortic Valve Papillary Fibroelastoma an Insidious and Unusual Cause of Angina. Giamb Bruno V, **Karangelis D**, Cucchiatti C. *Journal of Cardiothoracic Vasc Anaesth*.doi10.1053/j.jvca2015.04.010
53. Surgical management of infective endocarditis: early and long-term mortality analysis. single-center experience and brief literature review. Spiliopoulos K, Giamouzis G, Haschemi A, **Karangelis D**, Antonopoulos N, Fink G, Kemkes BM, Gansera B *Hellenic J Cardiol*. 2014 Nov-Dec;55(6):462-74.

54. Early onset of prosthesis failure after aortic valve replacement. **Karangelis D**, Fragoulis S, Bairaktaris A. Perfusion. 2015 May;30(4):345-8. doi: 10.1177/0267659114554328
55. Internal thoracic vein: friend or foe?
Roubelakis A, **Karangelis D**, Ohri SK. Heart Lung Vessel. 2014;6(3):210-2.
56. Acute aortic dissection is independent of weather conditions but statistically correlates with day of the week. **Karangelis D**, Daskalopoulos M, Giamouzis G, Koufakis T, Fragoulis S, Papadakis E, Kalafati G, Tsilimingas N. J Emerg Trauma Shock. 2014 Jul;7(3):244-6. doi: 10.4103/0974-2700.136877.
57. Management of isolated sternal fractures using a practical algorithm. **Karangelis D**, Bouliaris K, Koufakis T, Spiliopoulos K, Desimonas N, Tsilimingas N. J Emerg Trauma Shock. 2014 Jul;7(3):170-3. doi: 10.4103/0974-2700.136858.
58. The outcomes of triple valve surgery; 11 years experience from a single centre. Nicolas Nikolaidis, Apostolos Roubelakis, **Dimos Karangelis**, Mary Hanratty, Clifford W. Barlow, Geoffrey M.K. Tsang, Steve A. Livesey, Sunil K. Ohri. J Heart Valve Dis. 2014 Mar;23(2):240-5

59. Giant thoracoabdominal ganglioneuroblastoma in a 17-year-old patient. **Dimos Karangelis**, Nicolas Nikolaidis, Apostolos Roubelakis, and David F Weeden. Asian Cardiovasc Thorac Ann. 2013 Aug 16;22(6):739-741.
60. Repair of bland-white-garland syndrome via a modified technique. Manoly I, **Karangelis D**, Viola N, Haw M. Tex Heart Inst J. 2014 Feb; 41(1):48-50. doi: 10.14503/THIJ-12-3112.
61. The prominent role of cardiac magnetic resonance imaging in coronary artery disease. Palios J, **Karangelis D**, Roubelakis A, Lerakis S. Expert Rev Cardiovasc Ther. 2014 Feb;12(2):167-74. doi: 10.1586/14779072.2014.877344. Epub 2014 Jan 13.
62. Performance of EuroSCORE II compared to EuroSCORE I in predicting operative and mid-term mortality of patients from a single center after combined coronary artery bypass grafting and aortic valve replacement. Spiliopoulos K, Bagiatis V, Deutsch O, Kemkes BM, Antonopoulos N, **Karangelis D**, Haschemi A, Gansera B. Gen Thorac Cardiovasc Surg. 2013 Aug 2
63. Left ventricular assist devices: an evolving journey. **Karangelis D**, Dimarakis I, Venkateswaran R. Expert Rev Cardiovasc Ther. 2013 Aug 14
64. Dual Origin of the Left Anterior Descending Artery: A Rare Coronary Anomaly With Longstanding Variant Angina. Manoly I, **Karangelis D**, Peebles C, Tsang G. J Cardiothorac Vasc Anesth. 2013 Aug; 27(4):e44-e45. doi: 10.1053/j.jvca.2013.02.001.

65. Innominate artery perforation during placement of hemodialysis catheter. Roubelakis A, **Karangelis D**, Kaarne M. J Vasc Access. 2013 May 3; 0(0):0. doi: 10.5301/jva.5000149.
66. Update on reducing the risks of deep sternal wound complications. **Karangelis D**, Velissaris T, Tsilimingas N. Expert Rev Cardiovasc Ther. 2013 May;11(5):529-31. doi: 10.1586/erc.13.39.
67. Giant aortic root after previous aortic valve replacement. Roubelakis A, **Karangelis D**, Kaarne M. Ann Card Anaesth. 2013 Apr-Jun;16(2):153-4. doi: 10.4103/0971-9784.109776
68. Trans-diaphragmatic intercostal hernia after minor chest trauma. Nikolaidis N, **Karangelis D**, Casali G. Am Surg. 2012 Dec; 78(12):517-9.
69. The use of Nitinol Clips for Primary Sternal Closure in Cardiac Surgery. Nikolaidis N, **Karangelis D**, Mattam K, Tsang G, Ohri S. Ann Thorac Cardiovasc Surg. 2013;19(4):330-4. Epub 2012 Dec 13
70. Current Status of Mechanical Circulatory Support: a Systematic Review," Spiliopoulos K, Giamouzis G, Karayannis G, **Karangelis D**, Koutsias S, Kalogeropoulos A, Georgiopoulou V, Skoularigis J, Butler J, Triposkiadis F. Cardiol Res Pract. 2012; 2012:574198. Epub 2012 Aug 26

71. Why are thoracic operations postponed? Tagarakis GI, Voucharas C, Simopoulos V, **Karangelis D**, Daskalopoulos ME, Parisis C, Tsantilas A, Sataitidis I, Lampoura S, Vretzakis G, Tsilimingas NB. J Cardiothorac Surg. 2012 Apr 11; 7:31.
72. Hemorrhagic shock as a sequela of splenic rupture in a patient with infectious mononucleosis: focus on the potential role of salicylates. Bouliaris K, **Karangelis D**, Daskalopoulos M, Spanos K, Fanariotis M, Giaglaras A. Case Report Med. 2012;2012:497820. Epub 2012 Feb 6.
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78. Uthoff phenomenon - a rare manifestation of a rare disease. Tsolaki F, Tagarakis GI, **Karangelis D**, Gogaki EG, Stojanovic N, Trantou V, Mouratidis C, Sakkias G. J Paediatr Child Health. 2011 Jun; 47(6):396. doi: 10.1111/j.1440-1754.2011.02111.x. No abstract available.
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80. Bornholm disease-a pediatric clinical entity that can alert a thoracic surgeon. Tagarakis GI, **Karangelis D**, Tsolaki F, Dikoudi M, Koufakis T, Mouzaki K, Tsilimingas N. J Paediatr Child Health. 2011 Apr;47(4):242. doi: 10.1111/j.1440-1754.2011.02054.x. No abstract available. Erratum in: J Paediatr Child Health. 2011 Oct; 47
81. Spontaneous left side pneumothorax and myocardial infarction: rare but potentially lethal coexistence that can frustrate clinicians. **Karangelis D**,

Tagarakis G, Skoumis G, Papadopoulos D, Kalafati G, Stylianakis G, Tsilimingas N. Gen Thorac Cardiovasc Surg. 2011 Mar;59(3):202-4. Epub 2011 Mar 30.

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85. Cardiac hemangioma: facing a dilemma in treatment. **Karangelis D**, Tagarakis G, Bouliaris K, Tsilimingas N. Interact Cardiovasc Thorac Surg. 2011 Mar;12(3):519.

86. Embolism as major cause of neurocognitive complications after heart surgery. Tagarakis GI, **Karangelis D**, Tsolaki F, Tsilimingas NB. Interact Cardiovasc Thorac Surg. 2011 Mar; 12(3):383.

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90. Benign primary cardiac tumours and Cowden's syndrome. **Karangelis D**, Tagarakis G, Hevas A, Tsilimingas N. Interact Cardiovasc Thorac Surg. 2010 Dec;11(6):805.
91. Risks and pitfalls in chest tube placement--are we doing it safely? **Karangelis D**. Interact Cardiovasc Thorac Surg. 2010 Dec;11(6):748-9.
92. Rib fractures and pain peak 2 weeks down the line: myth or a fact? **Karangelis D**, Tagarakis G, Karkos C, Pantelaki I, Desimonas N, Papadopoulos D, Tsilimingas N. Am J Emerg Med. 2011 Feb;29(2):229. Epub 2010 Nov 6.
93. An alternate solution for the treatment of ascending aortic aneurysms: the wrapping technique. Tagarakis GI, **Karangelis D**, Baddour AJ, Daskalopoulos ME, Liouras VT, Papadopoulos D, Stamoulis K, Lampoura SS, Tsilimingas NB. J Cardiothorac Surg. 2010 Nov 3;5:100.

94. Coronary artery surgery in a man with achondroplasia: a case report. Tagarakis GI, **Karangelis D**, Baddour AJ, Desimonas N, Tsantsaridou A, Daskalopoulos ME, Papadopoulos D, Tsilimingas NB. J Med Case Reports. 2010 Oct 29; 4:348.
95. Monitoring serum chondroitin sulfate levels in patients submitted to coronary artery bypass surgery. **Karangelis D**, Asimakopoulou A, Kanakis I, Tagarakis GI, Koufakis T, Triposkiadis F, Tsilimingas N, Karamanos NK. Biomed Chromatogr. 2011 Jul; 25(7):748-50. doi: 10.1002/bmc.1533
96. Glycosaminoglycans as key molecules in atherosclerosis: the role of versican and hyaluronan. **Karangelis D**, Kanakis I, Asimakopoulou AP, Karousou E, Passi A, Theocharis AD, Triposkiadis F, Tsilimingas NB, Karamanos NK. Curr Med Chem. 2010; 17(33):4018-26.
97. Synchronous perforation of a duodenal and gastric ulcer: a case report. **Karangelis D**, Tagarakis GI, Karathanos C, Bouliaris K, Baddour AJ, Giaglaras A. J Med Case Reports. 2010 Aug 18; 4:272.
98. Intrapleural instillation of autologous blood for persistent air leak in spontaneous pneumothorax- is it as effective as it is safe? **Karangelis D**, Tagarakis GI, Daskalopoulos M, Skoumis G, Desimonas N, Saleptsis V, Koufakis T, Drakos A, Papadopoulos D, Tsilimingas NB. J Cardiothorac Surg. 2010 Aug 17; 5:61.

99. Dabigatran: the anticoagulant we have long expected? Tagarakis GI, **Karangelis D**, Daskalopoulos ME, Tsilimingas NB. Recent Pat Cardiovasc Drug Discov. 2010 Nov 1; 5(3):223-6.
100. What Johann Friedrich Meckel did not think of when he named the diverticulum! **Karangelis D**, Tagarakis GI, Drakos A, Giaglaras A. J Postgrad Med. 2010 Jan-Mar;56(1):40-1.
101. Visual disorders or "eye stroke"after heart surgery: can we prevent it? Tagarakis GI, Tsolaki F, Daskalopoulos ME, Karantzis I, Baddour AS, **Karangelis D**, Tsilimingas NB. Chir Ital. 2009 Sep-Dec; 61(5-6):623-5.
102. Comments on the Meckelostomy procedure. **Karangelis D**, Tagarakis GI, Drakos A, Giaglaras A. J Postgrad Med. 2010; 56:332. DOI: 10.4103/0022-3859.70931
103. **Mitral Annular Disjunction: Pathophysiology, Pro-Arrhythmic Profile and Repair Pearls.** **Dimos Karangelis**, Konstantinos S. Mylonas, Argyris Krommydas, Spiros Loggos, Vasiliki Androutsopoulou, Dimitrios Stakos, Dimitrios Mikroulis, Aphrodite Tzifa, Fotios Mitropoulos. Rev cardiovasc Med. 2022. vol23.4 **DOI: 10.31083/j.rcm2304117**

CTSNET VIDEOS

REPAIR OF A GIANT RIGHT CORONARY ARTERY ANEURYSM

by Dimos Karangelis, Zisis Gerontitis, Theodora Stougiannos, Dimitrios Mikroulis

<https://www.youtube.com/watch?v=6zQW-9u6DQg>

PUBLICATIONS (PEER REVIEWED)

- 1. Mitral Annular Disjunction: Pathophysiology, Pro-Arrhythmic Profile and Repair Pearls.** Dimos Karangelis, Konstantinos S. Mylonas, Argyris Krommydas, Spiros Loggos, Vasiliki Androutsopoulou, Dimitrios Stakos, Dimitrios Mikroulis, Aphrodite Tzifa, Fotios Mitropoulos. Rev cardiovasc Med. 2022. vol23.4 DOI: **10.31083/j.rcm2304117**

- 2. Gastrointestinal complications following heart surgery; an updated review**

Karangelis D, Oikonomou K, Koufakis T, Tagarakis G

European Journal of Cardiovascular Medicine, DOI: **10.5083/ejcm.20424884.32**

- 3. New trends and emerging technologies in surgery: have we found panacea in laparoscopy and robotics?**

Karangelis D Journal of South India Medicolegal Association 3 (2011) 6-8 Editorial

- 4. Preoperative Assessment for Coronary Artery Bypass Graft: Going Back to the Basics.**

Dimos Karangelis, Christodoulou, K. C., Efstratios Georgakarakos, Alike Fiska, & Dimitrios Mikroulis. (2023). Preoperative Assessment for Coronary Artery Bypass Graft:

ABSTRACT PUBLICATIONS IN PUBMED CENTRAL (PMC)

1. Correlation of thermal Doppler flowmetry, brain tissue oxygen and microdialysis values in patients with severe subarachnoid hemorrhage and traumatic brain injury: a preliminary report.

Papadopoulos D, Komnos A, Filippidis AS, Chatzopoulos T, Fountas KN, Vretzakis G, Paterakis K, **Karangelis D**, Zafeiridis TK

Crit Care. 2011; 15(Suppl 1): P323. Published online 2011 March 11.
doi: 10.1186/cc9743

PMC3066997. IF 5.05

2. Correlation of thermal Doppler flowmetry and microdialysis values in patients with severe subarachnoid hemorrhage and traumatic brain injury

DC Papadopoulos, P Papamichalis, As Filippidis, D **Karangelis**, TH Bekiari, KN Fountas, G Vretzakis, KN Paterakis, A Komnos

Crit Care. 2014; 18(Suppl 1): P457. Published online 2014 March 17.
doi: 10.1186/cc13647

PMCID: PMC4069486. IF 5.05

3. Acute pancreatitis due to clarithromycin therapy; a rare adverse effect of a common drug. Koufakis T, Gabranis I, Ntais D, Karangelis D, et al. European Journal of Internal Medicine 10/2013; 24:e77 DOI:10.1016/j.ejim.2013.08.189. IF 2.30

AUDITS

Are We Managing New Onset AF in Post-Cardiothoracic Surgery Patients According to Trust guidelines. March-July 2012 Department of Cardiac Surgery, Manchester Royal Infirmary

Dimos Karangelis, Raed Azzam

REVIEWER IN JOURNALS-ADDITIONAL INFORMATION

➤ - I have reviewed multiple articles for the following Journals:

- **JACC case reports**

- **European J Cardiothoracic surgery**
- **J Geriatric Cardiology**
- **BMC Surgery**
- **Frontiers in Surgery**
- European Journal of Clinical Investigation**
- Reviews in Cardiovascular Medicine**
- Journal of investigative surgery**
- Journal of Thoracic Disease**
- Future Cardiology**
- Perfusion***
- Journal of Emergencies Trauma and Shock***
- World journal of Emergency Medicine***
- Cardiology Research and Practice***
- Journal of Cardiovascular Medicine***
- ***Medical Principals and Practice***
- Advances in Anatomy.***

- Author in the book: *"Introduction in Cardiothoracic Surgery"* Medical School, University of Thessaly, Greece
- Editorial Board in the Journal of Invest. Surgery/ Journal of Thoracic Disease

PRIZES-AWARDS

- ❖ Winner of the VIDEO COMPETITION ECS CLUB, 2024 THESSALONIKI GREECE
- ❖ **"Ocular complications after heart surgery"** 4th Scientific Meeting Developments in Cardiothoracic Surgery with Emphasis on modern research in Greece", Patras, December 2009 (FIRST PRIZE)

INVITED PRESENTATIONS

- Invited video presentation titled “Endoscopic Mitral Valve Tumor Removal and Mitral Valve Repair”, presented in the annual conference of ECS Club, Thessaloniki Greece.
- Invited Oral presentation in the Symposium “Heart-stroke-vessels” Athens (Caravel) 24-26 January 2020: «***Bilateral versus single internal – thoracic – Artery grafts at 10 years – Arterial revascularization trial***»
- Invited Oral presentation in the 11th Symposium of the work groups of the Greek Cardiothoracic Society Ioannina May 2019: «**Thoracoscopic Cardiac Surgery**»
- Invited Oral presentation: 7nd Symposium of the work groups of the Greek Cardiothoracic Society Ioannina May 2015: The initial experience of **BIOCONDUIT™** in the treatment of aortic root abscess. Carolos Papoulias Conference centre.
- Invited Commentary in: 13th Congress of Surgical Infections, 27-29 September 2013, Larissa, Greece. Imperial Larisa Hotel
- “What is the role of Sutureless Valves in Today's Armamentarium”. Invited lecture, University of Manitoba, St Boniface Hospital, Winnipeg, Canada 7 December 2016

INTERNATIONAL PRESENTATIONS

1. 2nd Meeting of Hellenic Cardiothoracic Diaspora and Panhellenic Cardiothoracic Conference. Athens 8-10 November 2018, Zapeion, Athens. **“18 years of clinical experience with a modification of the Bentall button technique for total root replacement”** - D. Karangelis (Greece)
2. 2nd Meeting of Hellenic Cardiothoracic Diaspora and Panhellenic Cardiothoracic Conference. Athens 8-10 November 2018, Zapeion, Athens. **“17 Years of clinical experience with surgical ventricular restoration (SVR) Comparison of Dor and Modified Linear Closure techniques”** - D. Karangelis (Greece)
3. 1st Meeting of Hellenic Cardiothoracic Diaspora. Athens 20-22 November 2014. **“Is triple valve surgery safe in the modern era?”** D. Karangelis, A. Roubelakis, N Nikolaidis, C. Barlow, S. Ohri, S. Livesey, Southampton/UK
4. 5th Annual and Cardiothoracic Forum- SCTS- Brighton March 2013 **“11 years of experience in endocarditis surgery from a single centre; early and late outcome results”** D. Pousios, R. Perera, D. Karangelis, C. Barlow, M. Haw, M. Kaarne, S. Ohri, G. Tsang, S. Livesey; Southampton/UK

5. FEBS Advanced Lecture Course, Matrix Pathobiology, Signaling and Molecular Targets Conference and Cultural Center, University of Patras, 11-16 July, 2009
“Monitoring chondroitin sulfate in serum of patients with coronary disease.
Dimos E. Karangelis, Athanasia P. Asimakopoulou, Nikos K Karamanos, N.Tsilimingas

CONFERENCES ATTENDED

- 2nd Meeting of Hellenic Cardiothoracic Diaspora and Panhellenic Cardiothoracic Conference. Athens 8-10 November 2018, Zapeion, Athens
- 10th International Leipzig-Dallas Meeting (EACTS Course in Cardiovascular Innovation) December 2017
- Aortic Symposium, AATS, May 2016, New York
- 7th Annual meeting of the Euro-Asian Bridge Slovenia 2010
- 10th Pan-Hellenic Conference of the Hellenic Society of Thoracic and Cardiovascular Surgeons and 1st World meeting of the Hellenic Cardiothoracic Diaspora Athens 2014
- 3rd, 5th και 7th Symposium of the Greek Society of Cardiovascular and Thoracic Surgeons.
- Larissa International Vascular Endovascular Symposium 2009
- Leading Innovative Vascular Education, Corfu 2010
- 11th Pan-Hellenic Conference of Angiology and Vascular Surgery, Thessaloniki 2008.
- 4th Congress of the Hellenic Society Of Trauma and Surgery February 2007
- 28th Pan-Hellenic Conference Of Surgery and International Surgical Forum Athens 2008

- 9th και 13th Cardiology Conference of Central Greece, Larissa, October 2006 and 2010 respectively
- 15th Two-Day Course of the Hellenic Society of Atherosclerosis, Thessaloniki 2009
- 8th Hellenic-Cypriot Surgical Conference Nicosia, Cyprus 2007

I have co-authored more than 10 posters and delivered 3 oral presentations in the above mentioned Greek conferences.

TEACHING

- Teaching in 5th year medical students in my current appointment as well as international students through the HELMSIC program.
- Academic lectures to 5th and 6th year grade medical students/Nurses during my PhD/Research.
- Teaching to junior doctors and students during my residency and fellowship.
- Teaching “Principles of Surgery” for 3 months to the staff/nurses of the “Greek Red Cross” during my general surgery rotation.

RANDOMIZED CONTROL TRIALS

- **As of August 2023 I am the primary investigator in TRICS IV trial at the University Hospital of Alexandroupolis**

<https://clinicaltrials.gov/ct2/show/NCT04754022>

- During my fellowship in Canada and a year thereafter (July 2015-December 2017) I was a co-investigator in the LAAOS III study. This is a publically-funded multi-centre RCT in which patients with a history of AF undergoing on-pump cardiac surgery are randomized to have their left atrial appendage (LAA) surgically occluded or not (at the time of scheduled surgery). This will answer whether LAA occlusion reduces the risk of stroke or systemic embolism compared to no occlusion in AF patients. (ClinicalTrials.gov ID: NCT01561651) (Eudra CT#: 2012-001478-27).
- Co-Investigator in the TRICS III study (Transfusion Requirements in Cardiac Surgery III). TRICS-III is an international, multi-centre, open-label randomized controlled trial of two commonly used transfusion strategies in high-risk patients having cardiac surgery using a non-inferiority trial design. ClinicalTrials.gov Identifier: NCT02042898.

My clinical experience includes activity in major centers both in Greece and abroad (indicatively, we mention the Onassis Cardiac Surgery Center, the University Cardiac Surgery Clinic of the University of Manchester-Manchester Royal Infirmary-and the Cardiothoracic Surgery Clinic of Southampton General Hospital), culminating in my further training in one of the most pioneering cardiac surgery centers in North America (St. Michael's Hospital, Toronto). My clinical involvement has always been full and involved activity in both the department and the Intensive Care Unit as well as in the operating room, regular and emergency outpatient clinics, and has always been characterized as particularly successful. I have performed a sufficient number of procedures, both as a specialist and as a resident. Indicatively, coronary artery bypass grafting, aortic/mitral valve replacement-repair, permanent epicardial pacemaker placement, heart and chest trauma, pericardial window, lung and mediastinal biopsies, pleurodesis/resection of air cysts for recurrent pneumothorax. Furthermore, I participated in a large number of procedures such as ascending aortic dissection and other complex surgeries. Furthermore, within the framework of my further education, I participated according to the rotational on-call schedule (ROTA) and in invasive activities performed in a hybrid surgery, while I have also participated in a sufficient number of transcatheter aortic valve replacement (TAVIs).

During the last 4 years as an academic surgeon in the University hospital of Alexandroupolis, Greece and partially in the Euromedica private hospital in Thessaloniki, I operate on the entire spectrum of cardiac surgery namely CABG, AVR, MVR, MVrepair, Asc aortic aneurysms and dissections. My special interests include repair of the Mitral valve, hybrid aortic arch replacements and Aortic valve replacements. Hopefully in the near future we will engage in minimally invasive cardiac surgery as well. In my career so far, I have operated as I first surgeon more than 700 routine and emergency cases with a mortality rate < 5%.

(Operating lists are available upon request).

LANGUAGES-INTERESTS

- Greek (Native)
- English (Proficient)
- German (Certificat diploma)
- Scuba Diver (Rescue Diver)