

# Curriculum Vitae

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Konstantinos Toutouzas, MD

## Place and Date of Birth

Athens, Greece

22/03/1971

## Present Position and Address

- Professor of Cardiology
- Director of Cardio-oncology unit and structural heart disease unit, First Department of Cardiology, National & Kapodistrian University of Athens
- Chairman of the Postgraduate (MSc) program: 'Interventional Cardiology', National & Kapodistrian University of Athens
- President-elect of the Hellenic Society of Cardiology
- Communications coordinator of ESC Council for Cardiology Practice (2022-2024)
- Member of Hellenic Heart Foundation
- Board member of the Athens Medical School Faculty
- Board Member of Aglaia Kyriakou Children's Hospital

## Training and Education

- 1994: Graduation from Athens Medical School
- 1995-96: Military Service
- 1996-97: Internal Medicine Department of Air Force General Hospital 251, Athens, Greece
- 1997-99: 2nd Department of Internal Medicine, Athens Medical School, Hippokration Hospital, Athens, Greece
- 1999-2001: First Department of Cardiology, Athens Medical School, Hippokration Hospital, Athens, Greece
- August 2001- February 2002: Fellow in Interventional Cardiology, Centro Cuore Columbus, Milan, Italy
- March 2002-May 2003: Fellow in Interventional Cardiology, First Department of Cardiology, Athens Medical School, Hippokration Hospital, Athens, Greece
- June 2003- May 2014: Interventional Cardiologist in Hippokration Hospital, First Department of Cardiology, Athens, Greece
- May 2014 – December 2018: Associate Professor of Cardiology, First Department of Cardiology
- December 2018: Professor of Cardiology, First Department of Cardiology

## Post Graduate Degrees

- 2003: PhD on covered stents
- 2005: Lecturer of Cardiology, First Department of Cardiology, Athens Medical School, Athens, Greece
- 2009: Assistant Professor of Cardiology, First Department of Cardiology, Athens Medical School, Athens, Greece
- 2014: Associate Professor of Cardiology, First Department of Cardiology, Athens Medical School, Athens, Greece

- 2018: Professor of Cardiology, First Department of Cardiology, Athens Medical School, Athens, Greece

## International Scientific Committee Participation

- Fellow of European Society of Cardiology (FESC)
- Member of European Association of Percutaneous Cardiovascular Intervention (EAPCI)
- Member of Society for Cardiac Angiography and Interventions (SCAI)
- Faculty member of Transcatheter Cardiovascular Therapeutics (TCT) international meeting, Society for Cardiac Angiography and Interventions (SCAI) scientific sessions and PCR London valves
- Member of the American Diabetes Association
- Reviewer of EuroPCR submitted interesting cases
- Nominating Committee Member of European Society of Cardiology (2015-2016)
- Treasurer of ESC Council for Cardiology Practice (2020-2022)
- Communications coordinator of ESC Council for Cardiology Practice (2022-2024)

## Fellowships / Honours

- 1999: Hellenic Cardiological Society scholarship
- 2001: European Society of Cardiology scholarship
- 1999, 2001, 2003, 2013: Hellenic Cardiological Society: Scientific Research award
- 2007: Distinction in oral presentation in international congress Transcatheter Cardiovascular Therapeutics
- 2012: Visiting Professor University of Bolton, Bolton, UK
- 2013: New York College of Athens: award of distinguished scientist
- Best poster presentation in 'Behrakis Cardiovascular Symposium in Vascular Biology 2013'
- Highest ranking abstract from Greece in ACC's annual Scientific Sessions 2015
- 2012-2014: President of the working Group of Interventional Cardiology of Hellenic Cardiological Society
- 2015: Best poster in European Society of Cardiology Congress
- 2016: Travel grant in European Stroke Conference
- 2021: Highest ranking abstract (Paul Dudley White Prize) from Greece in AHA's annual scientific Sessions 2021

## Major Publications

More than 570 publications in peer reviewed journal followed by 9800 citations (h-index=51). Here is a list with the most representative references:

1. **Toutouzas K**, Colombo A, Stefanadis C. Inflammation and restenosis after percutaneous coronary interventions. *Eur Heart J*. 2004;25:1679-1687
2. **Toutouzas K**, Markou V, Drakopoulou M, Mitropoulos I, Tsiamis E, Vavuranakis M, Vaina S, Stefanadis C. Increased heat generation from atherosclerotic plaques in patients with type 2 diabetes: An increased local inflammatory activation. *Diabetes Care*. 2005;28:1656-1661
3. **Toutouzas K**, Drakopoulou M, Mitropoulos J, Tsiamis E, Vaina S, Vavuranakis M, Markou V, Bosinakou E, Stefanadis C. Elevated plaque temperature in non-culprit de novo atheromatous lesions of patients with acute coronary syndromes. *J Am Coll Cardiol*. 2006;47:301-306
4. **Toutouzas K**, Drakopoulou M, Vaina S, Stefanadis C. Significance of characterization of non-culprit lesions: An underscored clinical problem. *Atherosclerosis*. 2007;195:236-241
5. **Toutouzas K**, Synetos A, Stefanadi E, Vaina S, Markou V, Vavuranakis M, Tsiamis E, Tousoulis D, Stefanadis C. Correlation between morphologic characteristics and local temperature differences in culprit lesions of patients with symptomatic coronary artery disease. *J Am Coll Cardiol*. 2007;49:2264-2271

6. **Toutouzas K**, Drakopoulou M, Synetos A, Tsiamis E, Agrogiannis G, Kavantzias N, Patsouris E, Iliopoulos D, Theodoropoulos S, Yacoub M, Stefanadis C. In vivo aortic valve thermal heterogeneity in patients with nonrheumatic aortic valve stenosis the: First in vivo experience in humans. *J Am Coll Cardiol*. 2008;52:758-763
7. **Toutouzas K**, Tsiamis E, Karanasos A, Drakopoulou M, Synetos A, Tsioufis C, Tousoulis D, Davlouros P, Alexopoulos D, Bouki K, Apostolou T, Stefanadis C. Morphological characteristics of culprit atheromatic plaque are associated with coronary flow after thrombolytic therapy: New implications of optical coherence tomography from a multicenter study. *JACC Cardiovasc Interv*. 2010;3:507-514
8. **Toutouzas K**, Karanasos A, Tsiamis E, Riga M, Drakopoulou M, Synetos A, Papanikolaou A, Tsioufis C, Androulakis A, Stefanadi E, Tousoulis D, Stefanadis C. New insights by optical coherence tomography into the differences and similarities of culprit ruptured plaque morphology in non-st-elevation myocardial infarction and st-elevation myocardial infarction. *Am Heart J*. 2011;161:1192-1199
9. **Toutouzas K**, Drakopoulou M, Aggeli C, Nikolaou C, Felekos I, Grassos H, Synetos A, Stathogiannis K, Karanasos A, Tsiamis E, Siores E, Stefanadis C. In vivo measurement of plaque neovascularisation and thermal heterogeneity in intermediate lesions of human carotid arteries. *Heart*. 2012;98:1716-1721
10. **Toutouzas K**, Grassos C, Drakopoulou M, Synetos A, Tsiamis E, Aggeli C, Stathogiannis K, Klettas D, Kavantzias N, Agrogiannis G, Patsouris E, Klonaris C, Liasis N, Tousoulis D, Siores E, Stefanadis C. First in vivo application of microwave radiometry in human carotids: A new noninvasive method for detection of local inflammatory activation. *J Am Coll Cardiol*. 2012;59:1645-1653
11. **Toutouzas K**, Karanasos A, Stathogiannis K, Synetos A, Tsiamis E, Papadopoulos D, Stefanadis C. A honeycomb-like structure in the left anterior descending coronary artery: Demonstration of recanalized thrombus by optical coherence tomography. *JACC Cardiovasc Interv*. 2012;5:688-689
12. Stefanadis C, Synetos A, Tousoulis D, Tsiamis E, Michelongona A, Zagouri F, Bamias A, Dimopoulos MA, Kyvelou S, Kapelakis I, **Toutouzas K**. Systemic administration of bevacizumab increases the risk of cardiovascular events in patients with metastatic cancer. *Int J Cardiol*. 2012 Feb 9;154(3):341-4. doi: 10.1016/j.ijcard.2011.10.115
13. Hu S, Yonetsu T, Jia H, Karanasos A, Aguirre AD, Tian J, Abtahian F, Vergallo R, Soeda T, Lee H, McNulty I, Kato K, Yu B, Mizuno K, **Toutouzas K**, Stefanadis C, Jang IK. Residual thrombus pattern in patients with st-segment elevation myocardial infarction caused by plaque erosion versus plaque rupture following successful fibrinolysis: An optical coherence tomography study. *J Am Coll Cardiol*. 2013
14. **Toutouzas K**, Benetos G, Drakopoulou M, Michelongona A, Nikolaou C, Masoura C, Stathogiannis K, Aggeli C, Tsiamis E, Siores E, Stefanadis C. Morphological and functional assessment of carotid plaques have similar predictive accuracy for coronary artery disease. *Stroke*. 2013 Sep;44(9):2607-9.
15. **Toutouzas K**, Benetos G, Stefanadis C. Ischemic heart disease after breast cancer radiotherapy. *N Engl J Med*. 2013;368:2524-2525
16. **Toutouzas K**, Benetos G, Drakopoulou M, Deligianni C, Spengos K, Stefanadis C, Siores E, Tousoulis D. Incremental Predictive Value of Carotid Inflammation in Acute Ischemic Stroke. *Stroke*. 2015 Jan;46(1):272-4.
17. **Toutouzas K**, Chatzizisis YS, Riga M, Giannopoulos A, Antoniadis AP, Tu S, Fujino Y, Mitsouras D, Doulaverakis C, Tsampoulatidis I, Koutkias VG, Bouki K, Li Y, Chouvarda I, Cheimariotis G, Maglaveras N, Kompatsiaris I, Nakamura S, Reiber JH, Rybicki F, Karvounis H, Stefanadis C, Tousoulis D, Giannoglou GD. Accurate and reproducible reconstruction of coronary arteries and endothelial shear stress calculation using 3D OCT: Comparative study to 3D IVUS and 3D QCA. *Atherosclerosis*. 2015 Jun;240(2):510-9.
18. **Toutouzas K**, Benetos G, Karanasos A, Chatzizisis YS, Giannopoulos AA, Tousoulis D. Vulnerable plaque imaging: updates on new pathobiological mechanisms. *Eur Heart J*. 2015 Sep 28. pii: ehv508
19. Herrmann J, Yang EH, Ilescu CA, Cilingiroglu M, Charitakis K, Hakeem A, **Toutouzas K**, Leesar MA, Grines CL, Marmagkiolis K. Vascular Toxicities of Cancer Therapies: The Old and the New - An Evolving Avenue. *Circulation*. 2016 Mar 29;133(13):1272-89
20. Ilescu C, Grines CL, Herrmann J, Yang EH, Cilingiroglu M, Charitakis K, Hakeem A, **Toutouzas K**, Leesar MA, Marmagkiolis K. SCAI expert consensus statement: Evaluation, management, and special considerations of cardio-oncology patients in the cardiac catheterization laboratory (Endorsed by the Cardiological Society of India, and Sociedad Latino Americana de CardiologiaIntervencionista). *Catheter CardiovascInterv*. 2016 Apr;87(5):895-9
21. **Toutouzas K**, Koutagiar I, Benetos G, Aggeli C, Georgakopoulos A, Athanasiadis E, Pianou N, Trachanellis S, Patelis N, Agrogiannis G, Kafouris P, Filis K, Bessias N, Klonaris C, Spyrou G, Tsiamis E, Siores E, Patsouris E, Cokkinos D, Tousoulis D, Anagnostopoulos CD. Inflamed human carotid plaques evaluated by PET/CT exhibit increased temperature: insights from an in vivo study. *Eur Heart J Cardiovasc Imaging*. 2016 Dec 23. pii: jew219. doi: 10.1093/ehjci/jew219
22. Benetos G, **Toutouzas K**, Matsoukis I, Drakopoulou M, Mitropoulou F, Koutagiar I, Nikolaou C, Stathogiannis K, Siores E, Tousoulis D. Female gender is independently associated with increased carotid temperatures in patients with coronary artery disease. *Int J Cardiol*. 2016 Sep 15;219:130-5. doi: 10.1016/j.ijcard.2016.06.006
23. Marmagkiolis K, **Toutouzas K**, Kavinsky CJ, Cilingiroglu M. Structural heart disease training in the USA, Canada, and Europe. *Catheter Cardiovasc Interv*. 2017 May 8. doi: 10.1002/ccd.27082
24. **Toutouzas K**, Stathogiannis K, Latsios G, Synetos A, Drakopoulou M, Penesopoulou V, Michelongona A, Tsiamis E, Tousoulis D. Biomarkers in aortic valve stenosis and their clinical significance in transcatheter aortic valve implantation. *Curr Med Chem*. 2017 Jul 27. doi: 10.2174/0929867324666170727110241
25. Barbero U, Scacciatella P, Iannaccone M, D'Ascenzo F, Niccoli G, Colombo F, Ugo F, Colangelo S, Mancone M, Simone C, Sardella G, Amabile N, Motreff P, **Toutouzas K**, Garbo R, Tamburino C, Montefusco A, Omedè P, Moretti C, D'amico M, Souteyrand G, Gaita F, Templin C. Culprit plaque characteristics in younger versus older

- patients with acute coronary syndromes: An optical coherence tomography study from the FORMIDABLE registry. *Catheter Cardiovasc Interv.* 2017 Jul 12. doi: 10.1002/ccd.27172.
26. **Toutouzas K**, Benetos G, Koutagiar I, Barampoutis N, Mitropoulou F, Davlouros P, Sfikakis PP, Alexopoulos D, Stefanadis C, Siores E, Tousoulis D. Noninvasive detection of increased carotid artery temperature in patients with coronary artery disease predicts major cardiovascular events at one year: Results from a prospective multicenter study. *Atherosclerosis.* 2017 Jul;262:25-30. doi: 10.1016/j.atherosclerosis.2017.04.019. Epub 2017 Apr 23
  27. **Toutouzas K**, Skoumas J, Koutagiar I, Benetos G, Pianou N, Georgakopoulos A, Galanakis S, Antonopoulos A, Drakopoulou M, Oikonomou EK, Kafouris P, Athanasiadis E, Metaxas M, Spyrou G, Pallantza Z, Galiatsatos N, Aggeli C, Antoniadis C, Keramida G, Peters AM, Anagnostopoulos CD, Tousoulis D. Vascular inflammation and metabolic activity in hematopoietic organs and liver in familial combined hyperlipidemia and heterozygous familial hypercholesterolemia. *J Clin Lipidol.* 2017 Nov 2. pii: S1933-2874(17)30487-7.
  28. **Toutouzas K**, Benetos G, Voudris V, Drakopoulou M, Stathogiannis K, Latsios G, Synetos A, Antonopoulos A, Kosmas E, Iakovou I, Katsimagklis G, Mastrokostopoulos A, Moraitis S, Zeniou V, Danenberg H, Vavuranakis M, Tousoulis D. Pre-Dilatation Versus No Pre-Dilatation for Implantation of a Self-Expanding Valve in All Comers Undergoing TAVR: The DIRECT Trial. *JACC Cardiovasc Interv.* 2019 Apr 22;12(8):767-777. doi: 10.1016/j.jcin.2019.02.005. Epub 2019 Mar 27.
  29. **Toutouzas K**, Benetos G, Oikonomou G, Barampoutis N, Koutagiar I, Galanakis S, Karpalioti M, Drakopoulou M, Stathogiannis K, Bounas P, Gata V, Antoniadou F, Davlouros P, Alexopoulos D, Hahalis G, Siores E, Sfikakis PP, Tousoulis D. Increase in Carotid Temperature Heterogeneity Is Associated With Cardiovascular and Cerebrovascular Events. *Circ Cardiovasc Imaging.* 2018 Nov;11(11):e008292.
  30. Drakopoulou M, **Toutouzas K**, Stathogiannis K, Latsios G, Sideris S, Xanthopoulou M, Penesopoulou V, Trantalis G, Synetos A, Papanikolaou A, Aggeli C, Vavuranakis M, Tousoulis D. Impact of Valve Over-Sizing After Transcatheter Aortic Valve Implantation With a Self-Expanding Valve: A Multislice Computed Tomography Study. *J Invasive Cardiol.* 2019 May;31(5):E76-E82
  31. Benetos G, Karpalioti M, Drakopoulou M, Stathogiannis K, Xanthopoulou M, Latsios G, Synetos A, Bei E, Voudris V, Iakovou I, Katsimagklis G, Moraitis S, Zeniou V, Danenberg H, Halvatsiotis P, Vavuranakis M, Tousoulis D, **Toutouzas K**. One-year clinical and echocardiographic outcomes of direct implantation of a self-expanding valve. *Catheter Cardiovasc Interv.* 2021 Sep;98(3):E403-E411.
  32. Stathogiannis K, Synetos A, Latsios G, Karanasos A, Trantalis G, Toskas P, Drakopoulou M, Xanthopoulou M, Karpalioti M, Simopoulou C, Soulaïdopoulos S, Oikonomou G, Benetos G, Tsalamandris S, Kosmas I, Voudris V, Mastrokostopoulos A, Katsimagklis G, Halvatsiotis P, Deftereos S, Tsioufis C, **Toutouzas K**. Long-Term Outcomes and Valve Performance in Patients Undergoing Transcatheter Aortic Valve Implantation. *Am J Cardiol.* 2021 May 15;147:80-87
  33. Karanasos A, Latsios G, Tsioufis C, **Toutouzas K**. Trans-catheter aortic valve implantation: passing on to adulthood. *Hellenic J Cardiol.* 2021 Jan-Feb;62(1):65-66.
  34. Marmagkiolis K, Monlezun DJ, Cilingeroglu M, Grines C, Herrmann J, **Toutouzas KP**, Ates I, Iliescu C. TAVR in Cancer Patients: Comprehensive Review, Meta-Analysis, and Meta-Regression. *Front Cardiovasc Med* 2021 Aug 4;8:641268. doi: 10.3389/fcvm.2021.641268
  35. Yang EH, Marmagkiolis K, Balanescu DV, Hakeem A, Donisan T, Finch W, Virmani R, Herrman J, Cilingeroglu M, Grines CL, **Toutouzas K**, Iliescu C. Radiation-Induced Vascular Disease-A State-of-the-Art Review. *Front Cardiovasc Med.* 2021 Mar 30;8:652761
  36. Conrotto F, D'Ascenzo F, Franchin L, Bruno F, Mamas MA, **Toutouzas K**, Cuisset T, Leclercq F, Dumonteil N, Latib A, Nombela-Franco L, Schaefer A, Anderson RD, Marruncheddu L, Gallone G, De Filippo O, La Torre M, Rinaldi M, Omedè P, Salizzoni S, De Ferrari GM. Transcatheter Aortic Valve Implantation With or Without Predilatation: A Meta-Analysis. *J Invasive Cardiol* 2022 Jan 6;JIC20220106-1
  37. Araki M, Park SJ, Dauerman HL, Uemura S, Kim JS, Di Mario C, Johnson TW, Guagliumi G, Kastrati A, Joner M, Holm NR, Alfonso F, Wijns W, Adriaenssens T, Nef H, Rioufol G, Amabile N, Souteyrand G, Meneveau N, Gerbaud E, Opolski MP, Gonzalo N, Tearney GJ, Bouma B, Aguirre AD, Mintz GS, Stone GW, Bourantas CV, Räber L, Gili S, Mizuno K, Kimura S, Shinke T, Hong MK, Jang Y, Cho JM, Yan BP, Porto I, Niccoli G, Montone RA, Thondapu V, Papafaklis MI, Michalis LK, Reynolds H, Saw J, Libby P, Weisz G, Iannaccone M, Gori T, **Toutouzas K**, Yonetsu T, Minami Y, Takano M, Raffel OC, Kurihara O, Soeda T, Sugiyama T, Kim HO, Lee T, Higuma T, Nakajima A, Yamamoto E, Bryniarski KL, Di Vito L, Vergallo R, Fracassi F, Russo M, Seegers LM, McNulty I, Park S, Feldman M, Escaned J, Prati F, Arbustini E, Pinto FJ, Waksman R, Garcia-Garcia HM, Maehara A, Ali Z, Finn AV, Virmani R, Kini AS, Daemen J, Kume T, Hibi K, Tanaka A, Akasaka T, Kubo T, Yasuda S, Croce K, Granada JF, Lerman A, Prasad A, Regar E, Saito Y, Sankardas MA, Subban V, Weissman NJ, Chen Y, Yu B, Nicholls SJ, Barlis P, West NEJ, Arbab-Zadeh A, Ye JC, Dijkstra J, Lee H, Narula J, Crea F, Nakamura S, Kakuta T, Fujimoto J, Fuster V, Jang. Optical coherence tomography in coronary atherosclerosis assessment and intervention. *Nat Rev Cardiol.* 2022 Oct;19(10):684-703
  38. Apostolos A, Drakopoulou M, Trantalis G, Ioakeimidis M, Koroboki E, Tsalamandris S, Aggeli C, Ntaios G, Tsioufis C, Tsiougoulis G, **Toutouzas K**. Management of patent foramen ovale; findings from a nationwide survey. *J Stroke Cerebrovasc Dis.* 2024 Mar;33(3):107551
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## Major Research Interest

- Clinical evaluation of new stent designs for the treatment of lesions in bifurcations, in thrombus containing lesions, saphenous vein grafts.
- Clinical evaluation of drug cardiotoxicity in oncology patients
- Invasive methods, including intravascular ultrasound, thermography and optical coherence tomography for evaluation of vulnerable or high-risk plaques.
- Non-invasive detection of vulnerable plaque inflammation by novel imaging modalities
- Clinical study of patients with structural valve disease (valvular, ASD, PFO)
- Principal Investigator in multicenter randomized ‘Direct’ trial (Predilatation in Transcatheter Aortic Valve Implantation Trial, NCT02448927)
- Principal investigator in Greece of multicenter Landmark trial (NCT04275726)
- Principal investigator of beta-TAVI (impact of beta-blockers on TAVI, NCT05721170)
- Principal investigator of COMPASS-ART study (A Predictive Score for Arterial Thrombosis Associated With Cancer (NCT05256329))