



Charalambos Antoniades MD PhD FRCP FESC FMedSci

BHF Chair of Cardiovascular Medicine

Director, Director, Acute Multidisciplinary Imaging & Interventional Centre, University of Oxford

Deputy Head, Division of Cardiovascular Medicine University of Oxford

Consultant Cardiologist Oxford University Hospitals NHS Foundation Trust

Immediate past Chair, British Atherosclerosis Society

Charis Antoniades holds a BHF Chair of Cardiovascular Medicine at the University of Oxford, and he practices as a Consultant Cardiologist at Oxford University Hospitals. He was awarded his PhD title with honours on the genetics of premature myocardial infarction from the University of Athens, and during his PhD studies he won multiple Young Investigator award competitions, including those of the European Society of Cardiology (ESC) twice, American College of Cardiology, ISHR and others. He has been awarded the Outstanding Achievement Award of the basic Cardiovascular Science Council of the European Society of Cardiology in 2016, a National clinical excellence award in 2021 and an N3 National Clinical Impact Award in 2024, while he has given various named lectures. He is the Director, Acute Multidisciplinary Imaging & Interventional Centre, University of Oxford, the Deputy Head of the Division of Cardiovascular Medicine. He also served as the Chair of the British Atherosclerosis Society 2021-2024, while he is involved in several leadership roles within the ESC. In 2024 he was elected Fellow of the Academy of Medical Sciences.

His research is focused on the study of the cross-talk between adipose tissue and the cardiovascular system, with specific interest in the non-invasive imaging of inflammation and the use of artificial intelligence (AI) for risk prediction. He directs the Oxford Heart Vessels and Fat programme, and coordinates large national flagship programmes (such as the UK C19-CRC) and international multicentre studies (e.g. ORFAN study). His research has led to the development of novel AI-derived imaging biomarkers using Computed Tomography, with major role in cardiovascular risk prognosis.

He is also deputy editor of *Cardiovascular Research* and serves at several editorial boards, while he is one of the founders of the Scientists of Tomorrow of the ESC. He has published more than 350 peer review scientific papers in high impact journals like the Lancet, Science Transl Med, Circulation, JACC, EHJ and others. Finally, he is founder and Chief Scientific Officer of Caristo Diagnostics, a university of Oxford spinout company.

Curriculum Vitae - Professor Charalambos Antoniades

Qualifications:

2000: Medical Doctor (Hons, top 3%): Athens University Medical School

2006: PhD (Hons): Athens University Medical School

2009: Certificate of Completion of Training (CCT) in Cardiology

2017: Member of SCCT, L2 accreditation in cardiovascular CT

2019: Fellow of the Royal College of Physicians (FRCP)

2016: Fellow of the European Society of Cardiology (FESC)

2025: Fellow of the Academy of Medical Sciences (FMedSci)

Current appointments (selected):

2025-: Congress Chair and co-chair of Scientific Programme Committee, European Atherosclerosis Society, Glasgow 2025 congress

2024-2026: Coordinator of section e-Health/AI/Research Methodology, Scientific Programme Committee, European Society of Cardiology

2021- BHF Chair of Cardiovascular Medicine University of Oxford

2020- Director, Acute Multidisciplinary Imaging and Interventional Centre, University of Oxford

2018- Deputy Head, Division of Cardiovascular Medicine University of Oxford

2018- Deputy Editor, Cardiovascular Research

2017- Professor of Cardiovascular Medicine, University of Oxford

2012- Honorary Consultant Cardiologist Oxford University Hospitals NHS FT

Previous Roles:

2021-2024: Chair, British Atherosclerosis Society

2020-2024 Nucleus member, Working group of coronary pathophysiology and microcirculation, ESC

2020-2024 Board member, British Cardiovascular Society

2016-2023 Editor, British Journal of Pharmacology

2019-2024 Member, European Society of Cardiology communications committee

2022-2023: Member, European Atherosclerosis Society Programme Committee

2019-2021: Vice chair, Marie Curie Fellowships Panels, European Commission.

2019-2022: Member, BHF Project grants committee

2016-2021: British Heart Foundation Senior Clinical Research Fellow

2016-2017: Associate Editor, Cardiovascular Research & Hellenic Journal of Cardiology

2015-2020: Board member of the British Atherosclerosis Society (organizer of 2018 BAS meeting)

2014-2017: Associate Professor of Cardiovascular Medicine, University of Oxford

2013-2015: Founder & nucleus member, Scientists of Tomorrow, European Society of Cardiology

2013-2014: University Research Lecturer, University of Oxford

2012-2019: Expert Member, Marie Curie Individual Fellowships, ITN and several other EC grant panels

2011-2016: British Heart Foundation Intermediate Research Fellow

2015-2017: Board member of the Council on Hypertension, European Society of Cardiology

Academic Awards and Honours:

2025: Thomas Lewis Lecture, British Cardiovascular Society

2024: N3 National Clinical Impact Award

2024: "Distinguish Reviewer Award", European Heart Journal

2024: Visiting Professor, Hunan University, China

2023: "Top Editor of the year", Cardiovascular Research, European Society of Cardiology

2020: "Distinguished European Researcher 2020", University of Athens

2019: National Clinical Excellence Award (Bronze)
 2019: "Enrique Lopez" Lecture/Award University of Florida
 2018: Fellow of the Year, British Heart Foundation
 2018: Outstanding Graduate Supervisor award across all disciplines, Oxford University Students Union
 2018: "Ioannis Terrovitis" named lecture, Hellenic Society of Cardiology
 2017: International Foreign Expert of Tianjin Administration of Foreign Experts Affairs, China
 2016: Outstanding Achievement Award, Council of Basic Cardiovascular Science, ESC
 2015: "John French" lecture, British Atherosclerosis society
 2013: Visiting Professorship, Jagiellonian University of Krakow, Poland.
 2011: "K Samaras" outstanding achievement award, Hellenic Heart Foundation & Univ. of Athens
 2004-2009: Young Investigators Awards of the ACC, ESC (x3), ISHR, HSC (x3), BAS

Current Clinical Roles

2021-present: Director of University of Oxford Cardiovascular CT Service
 2012 - present: Hon Consultant Cardiologist, Oxford University Hospitals NHS Foundation Trust
 2010- present: Running a Resistant Hypertension clinic at Oxford University Hospitals NHS Foundation Trust

Editorial appointments (selected)- Appointments at Editorial level in leading journals

2018-now: Deputy Editor of Cardiovascular Research and Editor of its OnLife section.
 2024-now: Scientific advisor, Nature Reviews in Cardiology
 2024-now: Editorial board member, Eur Heart J Digital Health
 2016 - 2023: Editor British Journal of Pharmacology (official journal of British Pharmacological Society)
 2016-2017: Associate Editor of Cardiovascular Research
 2016: Guest Editor: Antioxidants and Redox Signaling (FOCUS issue "Immunometabolism")
 2015-2020: Associate Editor, Hellenic Journal of Cardiology (official journal of Hellenic Society of Cardiology
 2013: Guest Editor: Antioxidants and Redox Signaling (FOCUS issue "Statins and CV redox signalling".)
 9. Several Editorial Board memberships

Training and Mentorship

Supervised 5 PhD students at the University of Athens (all completed) and 14 at the University of Oxford (10 completed, and 5 ongoing). PhD students supervised as primary supervisor, won international awards including:

2. A. Antonopoulos: (a) Young investigators award (YIA) of the European Society of Cardiology 2010 (Coronary pathophysiology & Microcirculation 1st prize), (b) Best Poster award ESC 2015 on CT Imaging
3. C Bakogiannis: YIA, ESC 2011 (Coronary pathophysiology & Microcirculation -Finalist),
4. M Margaritis: (a) YIA ESC 2013 (Coronary pathophysiology & Microcirculation- 1st prize), (b) YIA British Cardiovascular Society 2013 (1st Prize), (c) YIA ESC 2015 (Cell Senescence - 1st prize) (d) Radcliffe Department of Medicine Graduate prize award 2016 (1st prize)
5. F Sanna and I Akoumianakis: British Atherosclerosis Society YIA 2017 (both finalists for different projects)
6. E Oikonomou: (a) Toshiba YIA of SCCT 2017 (1st Prize), (b) YIA finalist of the ESC 2018 (Clinical Science, 1st Prize) (c) YIA, ESC 2019 (Clinical Science, 1st prize), (d) Radcliffe Department of Medicine Graduate prize award 2018 (1st prize)
7. I Akoumianakis: (a) YIA ESC 2018 (Coronary pathophysiology & Microcirculation) 2018 (1st prize) (b) Best Poster Award ESC 2018 (c) YIA, American Heart Association 2019 (Finalist) (d) Radcliffe Department of Medicine Graduate prize award 2020 (1st prize)
8. C Kotanidis: (a) YIA, American Heart Association 2020 (Finalist) (b) YIA, British Cardiovascular Society 2021 (Finalist) (c) YIA, ESC 2021 (Coronary pathophysiology & Microcirculation- 1st prize) (d) YIA ESCPrevention Council 2022 (finalist)

9. H West: (a) YIA of the British Atherosclerosis Society 2021(1st Prize) (b) Best of the best, British Cardiovascular Society 2022 (1st Prize)
10. M Pumkinhorne: (a) YIA, British Society of Cardiovascular Research/British Athero Society 2022 (2nd prize) (b) YIA, British Atherosclerosis Society 2022 (finalist)
11. K Chan: (a) YIA winner British Atherosclerosis Society 2024 (b) best clinical trial award of SCCT 2024

Selected Publications

1. Kotanidis CP, ..., Antoniades C. Coronary inflammation and cardiovascular risk in breast cancer after radiotherapy. *Eur Heart J*. 2025
2. Kotronias RA, ..., Antoniades C. Benchmarking Photon-Counting Computed Tomography Angiography Against Invasive Assessment of Coronary Stenosis: Implications for Severely Calcified Coronaries. *JACC Cardiovasc Imaging*. 2025;18(5):572-585.
3. Antoniades C, Chan K. Using artificial intelligence to spot heart failure from ECGs: is it prime time? *Eur Heart J*. 2025;46(11):1054-1056.
4. Sandner S, Antoniades C, ..., Gaudino M. Intra-operative and post-operative management of conduits for coronary artery bypass grafting: a clinical consensus statement of the European Society of Cardiology Working Group on Cardiovascular Surgery and the European Association for Cardio-Thoracic Surgery Coronary Task Force. *Eur Heart J*. 2025;46(1):19-34.
5. Chan K...Antoniades C. Inflammatory risk and cardiovascular events in patients without obstructive coronary artery disease: the ORFAN multicentre, longitudinal study. *Lancet* 2024;403(10444):2606-2618
6. Tsiachristas A, ..., Antoniades C. Cost-effectiveness of a novel AI technology to quantify coronary inflammation and cardiovascular risk in patients undergoing routine Coronary Computed Tomography Angiography. *Eur Heart J Qual Care Clin Outcomes* 2024
7. Lüscher TF, Wenzl FA, D'Ascenzo F, Friedman PA, Antoniades C. AI in cardiovascular medicine: clinical applications. *Eur Heart J* 2024; 45(40):4291-4304. DOI: 10.1093/eurheartj/ehae465
8. Antoniades C,.....Crea F. Perivascular adipose tissue as a source of therapeutic targets and clinical biomarkers: an ESC clinical consensus statement. *Eur Heart J* 2023 44(38):3827-3844.
9. Carena MC,... Antoniades C. Role of Human Epicardial Adipose Tissue-Derived miR-92a-3p in Myocardial Redox State. *J Am Coll Cardiol* 2023; 82(4):317-332
10. West,...Antoniades. Deep-Learning for Epicardial Adipose Tissue Assessment With Computed Tomography: Implications for Cardiovascular Risk Prediction. *JACC Cardiovasc Imaging* 2023;16(6):800-816.
11. Antoniades C, ..., Antonopoulos AS. Using artificial intelligence to study atherosclerosis, predict risk and guide treatments in clinical practice. *Eur Heart J*. 2023;44(6):437-439.
12. Kotanidis CP, ..., Antoniades C. Constructing custom-made radiotranscriptomic signatures of vascular inflammation from routine CT angiograms: a prospective outcomes validation study in COVID-19. *Lancet Digit Health* 2022;2589-7500(22)00132-7
13. Akoumianakis I, Polkinghorne M, Antoniades C. Non-canonical WNT signalling in cardiovascular disease: mechanisms and therapeutic implications. *Nat Rev Cardiol* 2022 19(12):783-797
14. Akawi N, ..., Antoniades C. Fat-Secreted Ceramides Regulate Vascular Redox State and Influence Outcomes in Patients With Cardiovascular Disease. *J Am Coll Cardiol* 2021;77(20):2494-513.
15. Kondo H, ..., Antoniades C. Effects of canagliflozin on human myocardial redox signalling: clinical implications. *Eur Heart J* 2021;42(48):4947-4960.
16. Oikonomou EK,, Antoniades C. Standardised measurement of coronary inflammation using cardiovascular CT: integration in clinical care. *Cardiovasc Res* 2021 117(13):2677-2690.
17. Oikonomou EK,, Antoniades C. Perivascular Fat Attenuation Index Stratifies Cardiac Risk Associated With High-Risk Plaques in the CRISP-CT Study. *J Am Coll Cardiol* 2020; 76(6):755-757.

18. Antoniades C, Asselbergs FW, Vardas P. The year in cardiovascular medicine 2020: digital health and innovation. *Eur Heart J*. 2021 J;ehaa1065. doi: 10.1093/eurheartj/ehaa1065.
19. Antoniades C, Oikonomou EK. Artificial intelligence in cardiovascular imaging-principles, expectations, and limitations. *Eur Heart J*. 2021 Sep 24;ehab678.
20. Oikonomou EO.... Antoniades C. Artificial intelligence in medical imaging: A radiomic guide to precision phenotyping of cardiovascular disease. *Cardiovasc Res* 2020; 116(13):2040-2054.
21. Akoumianakis I Antoniades C. Insulin-induced vascular redox dysregulation in human atherosclerosis: Restoration by DPP4 inhibition. *Science Transl Med* 2020; 12(541):8824
22. Oikonomou EO,..... Antoniades C. A novel machine learning-derived radiotranscriptomic signature of perivascular fat improves cardiac risk prediction using CCTA. *Eur Heart J* 2019; 40(43):3529-3543.
23. Akoumianakis I, Antoniades C. Adipose tissue-derived Wnt5a regulates vascular redox signalling in obesity via USP17/Rac1-mediated activation of NADPH oxidases. *Science Transl Med* 2019;18;11(510)
24. Antoniades C, .., Deanfield J. Imaging residual inflammatory cardiovascular risk. *Eur Heart J* 2020; 4:748-758
25. Oikonomou EK, Antoniades C. The role of adipose tissue in cardiovascular health and disease. *Nature Rev Cardiol* 2019 16(2):83-99
26. Oikonomou E..... Antoniades C. New method for non-invasive detection of coronary inflammation using computed tomography angiography predicts residual cardiovascular risk. *Lancet* 2018; 392:929-939
27. Antonopoulos AS....., Antoniades C. Detecting human coronary inflammation by imaging perivascular fat. *Science Transl Med* 2017; Jul 12;9(398)
28. Margaritis M,, Antoniades C. Predictive value of telomere length on outcome following acute MI: Evidence for contrasting effects of vascular vs. blood oxidative stress. *Eur Heart J* 2017; 38:3094-3104
29. Antonopoulos AS,..., Antoniades C. Mutual Regulation of Epicardial Adipose Tissue and Myocardial Redox State by PPAR- γ /Adiponectin Signaling. *Circ Res* 2016; 118:842-55
30. Antonopoulos AS,..., Antoniades C. Adiponectin as a link between T2DM and vascular NADPH oxidase activity in the human arterial wall: the regulatory role of PVAT. *Diabetes* 2015;64(6):2207-19.
31. Margaritis M,..., Antoniades C. Interactions between vascular wall and PVAT reveal novel roles for adiponectin in the regulation of eNOS function in human vessels. *Circulation* 2013;127(22):2209-21
32. Antoniades C,...,Casadei B. Myocardial Redox State Predicts In-Hospital Clinical Outcome After Cardiac Surgery: Effects of Short-term Preoperative Statin Treatment. *J Am Coll Cardiol* 2012; 59:60-70
33. Antoniades C,...,Channon K. Rapid, Direct Effects of Statins on Arterial Redox State and NO Bio-availability in Human Atherosclerosis via BH4-Mediated eNOS Coupling *Circulation* 2011;124:335-45
34. Antoniades C,..., Channon KM. Induction of Vascular GTPCH-I and Endogenous BH4 Synthesis Protect against Inflammation-Induced Endothelial Dysfunction in Humans. *Circulation* 2011; 124:1860-70
35. Antoniades C, ..., Stefanadis C. Preoperative Atorvastatin Treatment in CABG Patients Rapidly Improves VG Redox State by Inhibition of Rac1 and NADPH Oxidase. *Circulation* 2010;122:S66-73

Research Grants (selected)

2024-2029; British Heart Foundation Centre of Research Excellence (£5m, co-PI lead-Transl. Imaging Theme)

2024: Medical Sciences Division of University of Oxford, Infrastructure grant to develop a new research catheterization laboratory in AMIIC (£2m, Lead PI)

2025-2028: Novo Nordisk-Oxford post-doctoral Fellowships programme (£~250k, Lead PI)

2024 -BHF Centre of Research Excellence, Including proteomic phenotyping in the Translational Imaging & Data Integration Platform (£75k)

2023-2024: Post-doctoral Fellow under the BHF Chair's scheme, British Heart Foundation (~£79k, Lead PI)

2024-26: Lexicon Pharmaceuticals, "Studying the effects of Canagliflozinon CV system" (£450k, Lead PI)

2024-2026: Astra Zeneca investigator initiated study on exploring inflammation in CV disease (£343,029, lead PI)

2021-26 Infrastructure grant from Oxford University Hospital NHSFT for upgrade of imaging capabilities of AMIIC (£3m, Lead PI), following previous capital investment of >£25m in building the centre.

2024-26: Caristo Diagnostics Limited, Development of automated segmentation algorithms for phenotyping of human vasculature (£60K)

2023-26: BHF, Clinical Training Fellowship on “developing photon counting CT” (~£370k, Lead PI)

2022-27: NIHR Oxford BRC, (£87m, leading two sub-themes under Imaging and Cardiovascular themes)

2022-25: Royal Commission Industrial Fellowship (~£120k, Lead PI)

2021-26: British Heart Foundation Chair of Cardiovascular Medicine, University of Oxford (£1.2m, Lead PI)

2021-26: H2020 MAESTRIA – Eur. Commission- “ML&AI for Early Detection of Stroke & AF (€15m, co-PI)

2021-26: BHF PG “Developing imaging biomarkers for cardiovascular risk stratification (~£1.1m, Lead PI)

2021-25: NIH (USA) Studying the effects of COVID-19 on atherosclerosis (\$5m, co-PI)

2021: Oxford Univ. Hospitals, Strategic Award for AMIIC (~£4m, further to £25m capital investment, Lead PI)

2021-24: Novo Nordisk Fonden “ Metabolite-related inflammation in diabetes-spectrum diseases (£4m, co-I)

2021-24: NHS AI Award “ Validating an AI technology to predict diabetes from CT” (£1.5m, Lead PI)

2020-22: BHF Translational Award: Validation of radiomics to predict stroke in CCTA (~£590k, Lead PI)

2020-21: NIHR Strategic Award for developing the hybrid cathlab/high end CT unit (£150k, Lead PI)

2020-21: OUH Research Capability Award for developing the hybrid cathlab/CT unit (£48k, Lead PI)

2020-21: Oxford Medical Sciences Division: UK C19-CRC arm of ORFAN study (£51k, Lead PI)

2018-21: Innovate UK grant, Biomedical Catalyst: late stage award (£1.97m, Lead PI)

2018-19: Pump priming award, BHF Oxford CRE (~£35k, Lead PI)

2018-21: Innovate UK grant, Oxford AI centre NCIMI (£17.5m; co-PI, leading the cardiac CT cell)

2017-20: NovoNordisk post-doctoral project, to study the role of wnt signaling in obesity (~£202k, Lead PI)

2017-19: BHF Transl. award; developing a CT method to detect coronary inflammation (~£287k, Lead PI)

2016-21: BHF Senior Research Fellowship; Exploring the role of wnt5a in atherosclerosis (~£1.1m, Lead PI)

2016-21: BHF 4y DPhil scheme (16 studentships, 4y each); (~£2.5m, co-PI, Academic lead of 1 of 7 themes “Atherosclerosis, Diabetes & Inflammation”.

2013-18: Sanofi Pharmaceuticals, Studying the effects of insulin on cardiovascular system. (~£480k, Lead PI)

Invited lectures in international meetings

1. Over the past 10 years I have given >450 invited lectures at high-profile international meetings,

Member in international and national committees (academic leadership-selected)

2024-2025: Congress Chair and co-chair of Scientific Programme Committee, European Atherosclerosis Society, Glasgow 2025 congress

2024-2026: European Society of Cardiology, Scientific Programme Committee, Coordinator of section e-Health/AI/Research Methodology

2024-2026: Member of the Digital Health and Innovation committee of the European Society of Cardiology

2024-2029: Steering committee of the Oxford British Heart Foundation Centre of Research Excellence

2023-2024: Scientific Programme committee, European Atherosclerosis Society Congress 2023, 2024

2021- 2023: Chair of the British Atherosclerosis Society. Currently Past Chair until end of 2025

2021-2023: British taskforce for the evaluation of the diagnostic and therapeutic implications of Lp(a)

2021-2023: Board member of the British Cardiovascular Society, representing BAS

2020-2024: Nucleus member of the ESC Working Group of coronary pathophysiology and microcirculation.

10. 2019, 2022: Vice chair, Marie Curie Fellowships Panel, European Commission.

2019-2024: ESC e-communications committee

2018-2022: British Heart Foundation Project Grants committee

2018-now: Chief Scientific Officer, Caristo Diagnostics (Oxford spinout company)

Patents:

Patents:

1. US 10,695,023 B2 (2015, granted/active): Method for characterisation of perivascular tissue. Inventors: C Antoniades et al.
2. US 12,067,714 B2 (2019, granted/active): Radiomic signature of a perivascular region. Inventors: C Antoniades et al.

- Related family patents:

- AU 2019344086 B2 (granted/active)
- CN 113056232 B (granted/active)
- JP 7684214 B2 (granted/active)
- CA 3112524 A1 (pending)
- EP 3852635 A1 (pending)
- JP 2024-079122 A (pending)
- US 2024/0404058 A1 (pending)
- IL 281607 A (status unknown)
- WO 2020/058713 A1 (withdrawn/abandoned)

Earlier/Other Patents:

3. US 20080064702 A1 (2008, published, uncertain legal status): Use of folates for the prevention and treatment of vascular diseases. Inventors: C Antoniades et al.
4. US 20110200994 A1 (2011, published, uncertain legal status): Method for Diagnosing a Genetic Predisposition for Vascular Disease. Inventors: C Antoniades et al.
5. PCT/GB2017/053262 (2017, published, uncertain legal status): A novel tool for CV risk stratification based on CT imaging. Inventors: C Antoniades et al.
6. GB2018/1818049.7, GR20180100490, GR20180100510 (2018, filed, status unclear): AI and radiomics in image analysis. Inventors: C Antoniades et al.
2. 2. Antoniades C (25%) Method for Diagnosing a Genetic Predisposition for Vascular Disease. US20110200994 A1 PCT/DE2008/001990, 2007
3. 3. C Antoniades (35%) Volumetric characterization of PVAT using CT imaging US10,695,023B2
4. 4. C Antoniades (40%). A novel tool for CV risk stratification based on CT imaging PCT/GB2017/053262

5-7. C Antoniades 50% 2018 (3 patents on new methods applying AI and radiomics in image analysis

1. GB2018/1818049.7, GR20180100490 and GR20180100510,)

Research translation - Founder, shareholder and Chief Scientific Officer (non-executive director) or Caristo Diagnostics, an Oxford Spinout company specializing in using artificial intelligence to analyse CT Images. Founder and Director of the Academic Cardiovascular CT Core lab of the University of Oxford, a QMS-controlled core-lab that undertakes commercial or academic advanced image analysis.

Appendix- Full list of publications

1. Sandner S, Antoniadou C, Caliskan E, Czerny M, Dayan V, Fremes SE, Glineur D, Lawton JS, Thielmann M, Gaudino M. Intra-operative and post-operative management of conduits for coronary artery bypass grafting: a clinical consensus statement of the European Society of Cardiology Working Group on Cardiovascular Surgery and the European Association for Cardio-Thoracic Surgery Coronary Task Force. *Eur J Cardiothorac Surg*. 2024 Nov 28;66(6):eae400.
2. Antoniadou C, Chan K. Using artificial intelligence to spot heart failure from ECGs: is it prime time? *Eur Heart J*. 2025
3. Chan K, Wahome E, Tsiachristas A, Antonopoulos AS, Patel P, Lyasheva M, Kingham L, West H, Oikonomou EK, Volpe L, Mavrogiannis MC, Nicol E, Mittal TK, Halborg T, Kotronias RA, Adlam D, Modi B, Rodrigues J, Sreaton N, Kardos A, Greenwood JP, Sabharwal N, De Maria GL, Munir S, McAlindon E, Sohan Y, Tomlins P, Siddique M, Kelion A, Shirodaria C, Pugliese F, Petersen SE, Blankstein R, Desai M, Gersh BJ, Achenbach S, Libby P, Neubauer S, Channon KM, Deanfield J, Antoniadou C; ORFAN Consortium. Inflammatory risk and cardiovascular events in patients without obstructive coronary artery disease: the ORFAN multicentre, longitudinal cohort study. *Lancet*. 2024 403(10444):2606-2618.
4. Tsiachristas A, Chan K, Wahome E, Kearns B, Patel P, Lyasheva M, Syed N, Fry S, Halborg T, West H, Nicol E, Adlam D, Modi B, Kardos A, Greenwood JP, Sabharwal N, De Maria GL, Munir S, McAlindon E, Sohan Y, Tomlins P, Siddique M, Shirodaria C, Blankstein R, Desai M, Neubauer S, Channon KM, Deanfield J, Akehurst R, Antoniadou C. Cost-effectiveness of a novel AI technology to quantify coronary inflammation and cardiovascular risk in patients undergoing routine Coronary Computed Tomography Angiography. *Eur Heart J Qual Care Clin Outcomes* 2024 (in press)
5. Choi YJ, Yang S, West H, Tomlins P, Hoshino M, Murai T, Hwang D, Shin ES, Doh JH, Nam CW, Wang J, Matsuo H, Kakuta T, Antoniadou C, Koo BK. Association of coronary inflammation with plaque vulnerability and fractional flow reserve in coronary artery disease. *J Cardiovasc Comput Tomogr*. 2024 Nov 1;S1934-5925(24)00463-5.
6. PHOSP-COVID Collaborative Group. Cohort Profile: Post-Hospitalisation COVID-19 (PHOSP-COVID) study. *Int J Epidemiol*. 2024 Feb 1;53(1):dyad165.
7. Polkinghorne MD, West HW, Antoniadou C. Adipose Tissue in Cardiovascular Disease: From Basic Science to Clinical Translation. *Annu Rev Physiol*. 2024 ;86:175-198.
8. Szabo L, Salih A, Pujadas ER, Bard A, McCracken C, Ardissino M, Antoniadou C, Vago H, Maurovich-Horvat P, Merkely B, Neubauer S, Lekadir K, Petersen SE, Raisi-Estabragh Z. Radiomics of pericardial fat: a new frontier in heart failure discrimination and prediction. *Eur Radiol*. 2024 4(6):4113-4126.
9. Simantiris S, Pappa A, Papastamos C, Korkonikitas P, Antoniadou C, Tsioufis C, Tousoulis D. Perivascular Fat: A Novel Risk Factor for Coronary Artery Disease. *Diagnostics (Basel)*. 2024 14(16):1830.
10. Lüscher TF, Wenzl FA, D'Ascenzo F, Friedman PA, Antoniadou C. Artificial intelligence in cardiovascular medicine: clinical applications. *Eur Heart J*. 2024 ehae465.
11. Klüner LV, Chan K, Antoniadou C. Using artificial intelligence to study atherosclerosis from computed tomography imaging: A state-of-the-art review of the current literature. *Atherosclerosis*. 2024 19:117580.
12. Koskinas KC, Van Craenenbroeck EM, Antoniadou C, Blüher M, Gorter TM, Hanssen H, Marx N, McDonagh TA, Mingrone G, Rosengren A, Prescott EB; ESC Scientific Document Group. Obesity and cardiovascular disease: an ESC clinical consensus statement. *Eur Heart J*. 2024 30:ehae508.
13. Koskinas KC, Van Craenenbroeck EM, Antoniadou C, Blüher M, Gorter TM, Hanssen H, Marx N, McDonagh TA, Mingrone G, Rosengren A, Prescott EB. Obesity and cardiovascular disease: an ESC clinical consensus statement. *Eur J Prev Cardiol*. 2024 Aug 30;zwae279.
14. Antoniadou C, Chan K. Calcification vs Inflammation: The Modern Toolkit for Cardiovascular Risk Assessment. *JACC Cardiovasc Imaging*. 2024 Oct;17(10):1225-1228
15. Kotronias RA, Raman B, Ferreira V, Neubauer S, Antoniadou C. Photon-counting computed tomography: 'one-stop shop' for coronary stenosis, inflammation, and myocardial assessment in ST-segment elevation acute coronary syndrome. *Eur Heart J Cardiovasc Imaging*. 2024; 25(6):e165.

16. Sagris M, Antonopoulos AS, Angelopoulos A, Papanikolaou P, Simantiris S, Vamvakaris C, Koumpoura A, Farmaki M, Antoniades C, Tsioufis C, Tousoulis D. High-sensitivity Troponin (hs-Tn) for Cardiovascular Risk Prognostication: A Systematic Review and Meta-analysis. *Curr Med Chem*. 2024;31(14):1941-1953.
17. Shalaby YM, Al-Zohily B, Raj A, Yasin J, Al Hamad S, Antoniades C, Akawi N, Aburawi EH. Circulating ceramide levels and ratios in Emirati youth under 18 years: associations with cardiometabolic risk factors. *Lipids Health Dis*. 2024; 23(1):93.
18. Manfield J, Thomas S, Bogdanovic M, Sarangmat N, Antoniades C, Green AL, FitzGerald JJ. Seeing Is Believing: Photon Counting Computed Tomography Clearly Images Directional Deep Brain Stimulation Lead Segments and Markers After Implantation. *Neuromodulation*. 2024; 27(3):557-564.
19. Sandner S, Antoniades C, Caliskan E, Czerny M, Dayan V, Fremes SE, Glineur D, Lawton JS, Thielmann M, Gaudino M. Intra-operative and post-operative management of conduits for coronary artery bypass grafting: a clinical consensus statement of the European Society of Cardiology Working Group on Cardiovascular Surgery and the European Association for Cardio-Thoracic Surgery Coronary Task Force. *Eur Heart J*. 2025 Jan 3;46(1):19-34.
20. Foran D, Antoniades C, Akoumianakis I. Emerging Roles for Sphingolipids in Cardiometabolic Disease: A Rational Therapeutic Target? *Nutrients*. 2024 Sep 28;16(19):3296.
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