

Doctor's Brief Curriculum Vitae

Name and Title:

Theodoros Kofidis

CARDIOVASCULAR SURGEON

Head, International Heart Surgery Center Greece/

Director, 1st Cardiac Surgery Department

HYGEIA HOSPITAL

Specialty:

CARDIOVASCULAR SURGEON

Education:

PD Privat-Dozent: Hannover Medical School, Germany

Full Professor, National university of Singapore, Medical School

Fellow of the American Association for Thoracic Surgery (FAATS)

1996 MD, Ludwig Maximilian's University of Munich, Germany

1995-1996: Intern, Rochester, NY / Texas Heart Institute, Houston, TX, USA

1998 Dr. Med, Ludwig Maximilian's University of Munich, Germany

2002 – 2004: Fellow, Stanford University Medical School

2006 Faculty, National University of Singapore

2007 PD (Privat-Dozent): Hannover Medical School, Germany

2008 FAMS (Academy of Medicine, Singapore)

2009 FAHA (American Heart Association)

2015 FRCS (w/o examination, Royal College of Surgeons of Edinburgh Award)

2015 FAATS (Fellow of the American Association for Thoracic Surgery)

Professional Experience:

- Jan 2023- June 2024 Full Professor of Surgery with Tenure, Dept. of Surgery, National University of Singapore / Dept of CTV-Surgery, National University Hospital, Singapore.
- Head, Department of Cardiac, Thoracic and Vascular Surgery, National University Health System, Singapore



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- Group Chief, Cardiothoracic Surgery, National University Cluster of Hospitals and Polyclinics.
- Jan 2012- Senior Consultant and Head, Division of Adult Cardiac Surgery, National University Hospital, Singapore
- Nov 2007 Exit Examination Joint Specialty of the Royal College of Surgeons for Cardiothoracic Surgery / Specialist Cardiothoracic Surgeon
- Oct 2006 – Professor of Surgery, Dept. of Surgery, National University of Singapore / Dept of CTV-Surgery, National University Hospital, Singapore.
- Nov 2005 – Sep 2006 Cardiac Surgeon, Hannover Medical School.
- Nov 2005 German Surgical Boards (“Cardiac Surgeon”)
- 2004 – 2005 Final Year of clinical training (senior resident), Hannover Medical School, Hannover, Germany.
- 2002 – 2004 Postdoctoral Fellow, Stanford University Medical School, Stanford, CA, USA.
- 1999 – 2001 Service Resident: Heart Transplantation and LVAD Program
- 1997 – 2002 Surgical Residency, Cardiothoracic and Vascular Surgery, Hannover Medical School, Hannover, Germany
- 1997 Surgical Observership at Harefield Hospital, London, UK
- 1995 – 1996 Surgical rotations at Strong Memorial Hospital, Rochester, NY / Texas Heart Institute, Houston, TX

Fellowships / HMDPs / Sabbaticals

- 2002 – 2004 Postdoctoral Fellow, Stanford University Medical School, Stanford, CA, USA.
- 2009 Jan / Jun 2010 Robotic Cardiac Surgery, ECU, NC, USA (R. Chittwood) x 2
- Aug 2010 – TAVI and MICS Surgery (+ Cardiological Interventions) at Zurich University
- Jul 2011 Hospital (Sabbatical).
- May 2011 TAVI training on Edwards Sapien and Corevalve, Headquarters, Geneva, Switzerland.
- May – AMDA Award for Advanced Training, Stanford/Miami/Boston/Texas Medical Centre
- June 2014 Jul 2015 Team training in LVAD therapies, Hamburg Eppendorf University, Germany.

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Fellowship in Societies, Membership in Journal Editorial Committees:

- **2000 – German Society for Thoracic and Cardiovascular Surgery** (Member)
- **2001 – European Association for Cardiothoracic Surgery** (Reviewer, Member)
- **2002- American Heart Association** (Scientific Councils, Reviewer, Abstract Grader, Premium Professional Member)
- **2003- International Society for Heart and lung Transplantation** (Member, Reviewer, Organizing Co-Chair).
- **2004- International Society of Tissue Engineering** (Member)
- **2006- International Society of Minimal Invasive Cardiac Surgery**(Member, Reviewer, Scientific abstract committee)
- **2006- Society of Thoracic Surgeons** (Member)
- **2006- Cardiothoracic Surgery Network** (Member)
- **2007- Asian Society for Cardiac, Vascular and Thoracic Surgery (ASCVTS)** (Member, Scientific, Organizing Committees)
- **2007 – Asian Cardiovascular and Thoracic Annals** (Editorial Board)
- **2007 – Scientific Board WSCTS – 18th World Congress of Cardiovascular Surgeons**
- **2007 – 2008 DSRB member for the section cardiovascular research**
- **2007 – 2008 National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs), UK** (Grant reviewer)
- **2008 – Hellenic Society of Cardiothoracic Surgery** (Member)
- **2009: MRTB** space allocation committee
- **2009: Senior advisor to Research-Gate**, the international scientists' communication forum.
- **2012 – Member of the Steering Committee of the World Society of Cardiothoracic Surgery** and Representative for Far East.
- **2013 – Association of Cardiothoracic Surgeons of Asia** (Member, Organizing Committee)
- **2014 – The Swiss Healthcare Concierge** (Official Surgeon, Asia)
- **2014 – National Medical Research Council, Singapore** (Appointed Reviewer)
- **2015 – Fellow of the Royal College of Surgeons of Edinburgh**
- **2015 – Fellow of the American Association of Thoracic Surgeons**

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- 2015 – Editorial team for the **Journal of Heart and Lung Transplantation**
- 2016 – **Ministry of Health Cardiovascular Disease Research Group**
- 2020- Member of the Board of the Cape Town University Heart Institute
- 2021- Chairman of the Singapore **JCST Accreditation** program for Cardiothoracic Surgery
- 2021- Member of the Singapore Cardiothoracic Surgery Residency Advisory Committee (**RAC**)
- 2021 – **Chairman of the Educational Committee**, and Councilor, Asian Society for Cardiovascular and Thoracic Surgery (**ASCVTS**)

Industry Liaisons (Past and present)

- 2010 – 2013 Advisor to Kips Bay Medical, Minnesota, USA
- 2014 Consultant/Proctor St Jude Medical (now Abbott)
- 2014 Consultant/Proctor Medtronic
- 2014 Consultant/Proctor Fehling Instruments (Proctorships are issued for a year and subject to renewal)
- 2017 – Consultant/Proctor, Perfusion Services Pte Ltd
- 2019 Advisory Board, Livanova
- 2020 – Advisory Board, Medtronic

Reviewer / Editorial appointments

- NIH / NHLBI grant reviewer
- NMRC Pannelist / Reviewer

Abstract Reviewer / Scientific / Program Committee Member

- AHA Annual Scientific Sessions
- Annual Meeting of the International Society of Heart and Lung Transplantation
- European Association for Cardiothoracic Surgery
- Annual Meeting of the International Society for Minimally Invasive Cardiothoracic Surgery.
- Association of Thoracic and Cardiac Surgeons of Asia
- World Society for Cardiothoracic Surgery

Reviewer/Editor for Journals (Past and Present):

- FASEB,

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- Circulation,
- Journal of Thoracic and Cardiovascular Surgery,
- European Heart Journal,
- European Journal of Cardiothoracic Surgery,
- International Journal of Heart and Lung Transplantation,
- Human Gene Therapy,
- Biomaterials,
- International Journal of Medicine,
- Biomed Central Bioimaging,
- Biomedical Materials,
- Chinese Journal of Bioengineering Research,
- The “Innovations” Journal of the ISMICS society.
- The International Journal for Heart and Lung Transplantation
- Asian Annals of Cardiothoracic Surgery
- Reviewer for the Clinical Ethics Committee of the National University of Singapore.
- Reviewer for the National Centre for the Replacement, Reduction, Refinement of Animal Research of England.
- Reviewer for the National Medical Research Council, Singapore.
- “Bio”: Intl. Biotechnology Journal
- Editorial and Advisory Board of the Asian Annals of Cardiovascular Surgery
- Member of the International Editorial Board of the Journal of Clinical Rehabilitative Tissue Engineering Research
- Minimally Invasive Surgery Journal, past Editor
- Journal of Molecular and Cellular Cardiology
- Journal of the Annals of the Academy of medicine of Singapore
- Biomed Central
- Associate Editor (Surgery), The Continuing Cardiology Education Journal (Willey).
- Editorial Board, The Turkish Journal of Thoracic and Cardiovascular Surgery

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Clinical & Research Interest:

Clinical interest: Adult Cardiac Surgery, Minimally Invasive Cardiac Surgery, Robotic Cardiac Surgery, Beating Heart Surgery, Heart Failure Surgery, Transplantation, Assist Devices, Arrhythmia Surgery, Surgical Research and Development.

Research interest:

- 2008 – **Director** of the Robotic Cardiac Surgery Program, CTVS, National University Hospital
- 2008 **Planning Committee**, National University Heart Centre Singapore, NUHS
- 2008 – 2012 **Research Director**, Department of CTVS, NUHS
- 2009 – **Chairman** of the Initiative for Research and Innovation in Surgery (IRIS)
- 2009: **Master-planning Committee** of the Large Animal Facility, NUS.
- 2010 – **Assoc. Professor with Tenure**, NUS (Application for Full Professorship in Progress)
- 2010 – 2011 **Professor** of Heart Surgery, University Hospital of Zurich, Switzerland, *Sabbatical period*.
- Oct 2011 – Resumption of duties at NUS, Singapore.
- 2011 – **Founder and Director** of the Minimally Invasive Cardiac Surgery Program, CTVS, NUHS, Singapore
- 2012 **Senior Consultant** at CTVS/NUHS
- Sept 2012 – October 2017: **Head**, Division of Adult Cardiac Surgery, CTVS, National University Heart Centre Singapore
- 2012 – Member/Chair of Academic Faculty Promotions (Appointment by Cluster Head)
- 2012: **Research Committee**, NUHS
- 2012 – Regular Tutor / Organizer and Teaching Surgeon (live-Transmission) in multiple international events.
- Dec 2012 – **Steering committee** of the World Society for Cardiothoracic Surgery, Representative Far East.
- 2014 – Independent Reviewer, Academy of Medicine of Singapore
- Aug 2014 – **Clinical Director** for M.E.R.C.I. (Medical Engineering Research and Commercialization Initiative)

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- 2015 – **Surgical Director**, HF and LVAD program, National University Heart Centre Singapore
- 2015 – Ministry of Health, Taskforce for the Introduction of Robotic Technology in Healthcare, Singapore.
- 2015 – **Director** of the Undergraduate Research Certification Domain, National University of Singapore, Medical School.
- 2015 – **Director** of Undergraduate Research, Wong Hock Boon society, NUS
- 2015 – Member of Medical Grand Challenge Committee, NUS YLL School of Medicine
- 2015 – **Program Committee**, International Society for Heart and Lung Transplantation
- Mar 2016 – **Panelist**, Nature Publishing Group, Journal Selection Committee
- Sept 2018-2024: **Head of Department of Cardiac, Thoracic and Vascular Surgery** (includes Congenital Heart Surgery and Critical Care units, 105 staff on payroll and annual TPM, 300 staff in NUHCS domain).
- March 2020- Faculty/Program Committee, **EACTS Technocollège**
- July 2020 – Induction into the **NIC Healthcare committee**, NUS
- July 2021 – **Group Chief**, Cardiothoracic Surgery, NUHS Cluster Hospitals and Polyclinics

Honors & Awards

- 1992 Scholarship of the State of Bavaria for outstanding performance.
- 2000 Award for the best oral presentation of the Onassis Institute at the International Congress of Cardiothoracic Surgery, Onassis Heart Center, Athens, Greece.
- 2001 Award of the European Transplant Society for the best scientific work, Basel, Switzerland.
- 2002 The German Research Society Grant Award.
- 2004 The Rockefeller Brothers Fund/Culpeper Bioscience Award, NY, USA.
- 2005 Funding Award of the Brauckmann Foundation, Hannover, Germany.
- 2006 The Lillehei-Caster Award of the European Society of Cardiothoracic Surgery, Stockholm, Sweden.
- 2012 The Lifetime achievement/contribution Award by the Hellenic Cardiology Society.

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- 2015.The MOH AMDA Award
- 2015 The Fellowship of the Royal College of Surgeons of Edinburgh, without examination.
- 2017 Award by the International Olympic Academy
- 2018 Award by the Hellenic CT Surgery Society and the ISMICS-Winter conference
- 2019 The NUS Medicine Special Recognition Award
- 2021 The SIMICTS-ISMICS Lifetime Achievement Award

Recent Publications:

1. Mitral valve repair update: simple, intuitive and physiological techniques, using running sutures (part II). Kofidis T. Eur J Cardiothorac Surg. 2023 Feb 3;63(2).
2. Sex Differences in Revascularization, Treatment Goals, and Outcomes of Patients With Chronic Coronary Disease: Insights From the ISCHEMIA Trial. Reynolds H. et al. J Am Heart Assoc. 2024 Mar 5;13(5)
3. A mitral valve repair update: simple, intuitive and physiological techniques, using running sutures (part I). Kofidis T. Eur J Cardiothorac Surg. 2023 Feb 3;63(2).
4. Incidence of valvular regurgitation and leaflet perforation by using automated titanium fasteners (CORKNOT®) in heart valve repair or replacement: less usual than reported. Faizus Sazzad, Ong Zhi Xian, Ashlynn Ler, Chang Guohao, Kang Giap Swee, Theo Kofidis. J Cardiothorac Surg. 2021 Jun 7;16(1):163.
5. Alternative technique of long acting cardioplegia delivery results in less hemodilution. Ong GS, Guim GS, Lim QX, Chay-Nancy HS, Jaafar NB, Lim CA, Clement CKH, Sazzad F, Kofidis T. Perfusion. 2021;36(4):365-373.
6. Management of Coronary Disease in Patients with Advanced Kidney Disease. Bangalore S, Maron DJ, O'Brien SM, Fleg JL, Kretov EI, Briguori C, Kaul U, Reynolds HR, Mazurek T, Sidhu MS, Berger JS, Mathew RO, Bockeria O, Broderick S, Pracon R, Herzog CA, Huang Z, Stone GW, Boden WE, Newman JD, Ali ZA, Mark DB, Spertus JA, Alexander KP, Chaitman BR, Chertow GM, Hochman JS; ISCHEMIA-CKD Research Group. N Engl J Med. 2020 Apr 23;382(17):1608-1618.
7. Health Status after Invasive or Conservative Care in Coronary and Advanced Kidney Disease. Spertus JA, Jones PG, Maron DJ, Mark DB, O'Brien SM, Fleg JL, Reynolds HR, Stone GW, Sidhu MS, Chaitman BR, Chertow GM, Hochman JS, Bangalore S; ISCHEMIA-CKD Research Group. N Engl J Med. 2020 Apr 23;382(17):1619-1628.
8. The Asian system for cardiac operative risk evaluation for predicting mortality after isolated coronary artery bypass graft surgery (ASCORE-C). Luo HD, Teoh LK, Gaudino MF, Fremes S, Kofidis T. J Card Surg. 2020 Jul 11.

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9. A Novel Minimally Invasive Technique of Temporary Caval Occlusion for Right Heart Surgery. Sazzad F, Kuzemczak M, Kofidis T. Ann Thorac Surg. 2020 Apr;109(4).
10. An autologous platelet-rich plasma hydrogel compound restores left ventricular structure, function and ameliorates adverse remodeling in a minimally invasive large animal myocardial restoration model: a translational approach: Vu and Pal "Myocardial Repair: PRP, Hydrogel and Supplements". Vu TD, Pal SN, Ti LK, Martinez EC, Rufaihah AJ, Ling LH, Lee CN, Richards AM, Kofidis T. Biomaterials. 2015 Mar;45:27-35.
11. Novel injectable bioartificial tissue facilitates targeted, less invasive, large-scale tissue restoration on the beating heart after myocardial injury.
12. Kofidis T, Lebl DR, Martinez EC, Hoyt G, Tanaka M, Robbins RC. Circulation. 2005 Aug 30;112(9 Suppl):I173-7.
13. Embryonic stem cell immunogenicity increases upon differentiation after transplantation into ischemic myocardium. Swijnenburg RJ, Tanaka M, Vogel H, Baker J, Kofidis T, Gunawan F, Lebl DR, Caffarelli AD, de Bruin JL, Fedoseyeva EV, Robbins RC. Circulation. 2005 Aug 30;112(9 Suppl): I166-72.PMID: 16159810 (IF: 17.047)
14. Stimulation of paracrine pathways with growth factors enhances embryonic stem cell engraftment and host-specific differentiation in the heart after ischemic myocardial injury.Kofidis T, de Bruin JL, Yamane T, Tanaka M, Lebl DR, Swijnenburg RJ, Weissman IL, Robbins RC. Circulation. 2005 May 17;111(19):2486-93.PMID: 15883216 (IF: 17.047)
15. Haematopoietic stem cells adopt mature haematopoietic fates in ischaemic myocardium.Balsam LB, Wagers AJ, Christensen JL, Kofidis T, Weissman IL, Robbins RC.Nature. 2004 Apr 8;428(6983):668-73. PMID: 15034594 (IF: 38.138)

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