

Ian Patrick Kay
BA, MBChB, FRACP, PhD, FESC, FCSANZ

CURRICULUM VITAE
2008

NAME: Ian Patrick Kay

DATE OF BIRTH: 19.12.63

MARITAL STATUS: Married with 5 children.

QUALIFICATIONS

1984: BA Economics and Germanic Languages and Literature (Auckland University)

1989: MBChB (Otago University, Dunedin, New Zealand).

1998: FRACP (Fellow of the Royal Australasian College of Physicians)

2001: PhD (Erasmus University, Rotterdam, The Netherlands).

Title: Radiation And The Stent: Results From Catheter-Based Radiation And Radioactive Stenting.

Supervisor: Prof. PW Serruys

2002: FESC (Fellow of the European Society of Cardiology)

2006: FCSANZ (Fellow of the Cardiac Society of Australia and New Zealand)

INTERVENTIONAL CARDIOLOGY FELLOWSHIP TRAINING: 1998-2000

Clinical and Research Fellow

Department of Interventional Cardiology, Thoraxcenter, Rotterdam, The Netherlands.

Supervisor: *Prof. PW Serruys*.

CURRENT POSITIONS

Interventional Cardiologist

Middlemore Hospital

Hospital Road

Otahuhu

Auckland

New Zealand

email: kayp@middlemore.co.nz

Associate Professor in Medicine

University of Auckland

Middlemore Campus

Otahuhu

Auckland

New Zealand

Interventional Cardiologist
Green Lane Cardiac Services
Cardiac Investigations Unit
Auckland City Hospital
Grafton
Auckland
New Zealand

CURRENT RESEARCH INTERESTS

1. Restenosis: prediction through genetic profiling
2. Intravascular ultrasound, including clinical assessment and 3 – dimensional analysis of remodeling
3. Epidemiological factors and their relationship to in-stent restenosis.
4. The effect of age on revascularisation pathways.
5. Multi-centre studies addressing coronary stenting.
6. New coronary device development

PUBLICATIONS

62 publications in peer reviewed journal and over 150 abstracts and 6 book chapters, one book as chief editor.

Peer reviewed journals

1. Cardiogenic Shock: a failure in reperfusion. Time for a strategic change?
Serruys PW, Kay IP.
European Heart Journal Jan 1999.
2. Is Benestent I simply a remake of Benestent II?
Serruys PW, Kay IP.
European Heart Journal. June 1999.
3. Periprocedural quantitative coronary angiography after Palmaz-Schatz stent implantation predicts the restenosis rate at six months: results of a meta-analysis of the Belgian Netherlands Stent study (BENESTENT) I, BENESTENT II Pilot, BENESTENT II and MUSIC trials. Multicenter Ultrasound Stent In Coronaries.
Serruys PW, Kay IP, Deshpande NV, De Feyter P.
J Am Coll Cardiol. 1999 Oct;34(4):1067-74.

4. Remodelling of atherosclerotic coronary arteries varies in relation to the location and composition of the plaque.

Sabate M, Kay IP, Ligthart J, De Feyter P, Serruys PW.
Am J Cardiol July 15 1999.

5. An Intracoronary ultrasound longitudinal reconstruction of a post angioplasty coronary artery dissection.

Kay IP, Sabate M, Ligthart J, De Feyter P, Serruys PW.
Circulation. 1999 Jun 29;99(25):E17.

6. Beta-particle emitting radioactive stent implantation: a safety and feasibility study.
Wardeh A, Kay IP, Sabaté M, Van der Giessen W, Ligthart JMR, Coen VLMA, Gijzel A, Den Boer A, Levendag PC, Serruys PW.

Circulation October 19 1999.

7. Late Coronary Occlusion after Intracoronary Brachytherapy.

Costa MA, Sabaté M, van der Giessen WJ, Kay IP, Cervinka P, Ligthart JMR, Serrano P, Coen VLMA, Levendag PC, Serruys PW.

Circulation 1999.

8. Reference chart derived from post-stent-implantation intravascular ultrasound predictors of 6-month expected restenosis on quantitative coronary angiography.

De Feyter P, Kay IP, Disco C, Serruys PW.
Circulation. 1999 Oct 26;100(17):1777-83.

9. Preserved endothelium-dependent vasodilation in coronary segments previously treated with balloon angioplasty and intracoronary irradiation.

Sabate M, Kay IP, van Der Giessen WJ, Cequier A, Ligthart JM, Gomez-Hospital JA, Carlier SG, Coen VL, Marijnissen JP, Wardeh AJ, Levendag PC, Serruys PW.
Circulation. 1999 Oct

10. I Like the Candy, I hate the Wrapper.

Serruys PWS, Kay IP,
Circulation. 2000 Jan 4-11;101(1):3-7.

11. The outcome of balloon-induced coronary artery dissection after Beta radiation.

Kay IP, Sabaté M, Van der Giessen W, Ligthart JMR, Coen VLMA, Gijzel A, Wardeh A, Den Boer A, Levendag PC, Serruys PW.
Heart. 2000 Mar;83(3):332-7.

12. Geographic miss : A cause of treatment failure in radio-oncology applied to intracoronary radiation therapy.

Sabate M, Kay IP, Costa MA, Kozuma K, van Der Giessen, WJ, Coen VL, Ligthart JM, Serrano P, Levendag PC, Serruys PW.

Circulation. 2000 May 30;101(21):2467-71.

13. Clinical and angiographical follow-up after implantation of a 6-12 μ Ci radioactive stent in patients with coronary artery disease.

AJ Wardeh, I P Kay, M Sabaté, JMR Ligthart, K Kozuma, W J van der Giessen, P J de Feyter, PW. Serruys. Eur Heart J. 2001 Apr;22(8):669-75.

14. Positive Geometric Vascular Remodeling is seen after Catheter – Based Radiation Followed By Conventional Stent Implantation, But Not After Radioactive Stent Implantation.

IP Kay, M Sabaté, K Kozuma, JMR Ligthart, M Costa, W J van der Giessen, AJ Wardeh, , P J de Feyter, PW. Serruys.

Circulation. 2000 Sep 19;102(12):1434-9.

15. Three-dimensional Intravascular Ultrasound Assessment of Non-Injured Edges of β -Irradiated Coronary Segments.

K Kozuma, M A Costa, M Sabaté, IP Kay, JPA Marijnissen, VLMA Coen, P Serrano, JMR Ligthart, PC Levendag, PW Serruys.

Circulation. 2000 Sep 26;102(13):1484-9.

16. Methodological and clinical implications of the relocation of the MLD after intracoronary radiation therapy.

Sabate M, Costa MA, Kozuma K, Kay IP, van der Wiel C, Verin V, Wijns W, Serruys PW.

J Am Coll Cardiol. 2000 Nov 1;36(5):1536-41.

17. Radioactive stents delay but do not prevent in-stent neointimal hyperplasia.

IP Kay, M Sabaté, K Kozuma, M Knook, JMR Ligthart, W J van der Giessen, AJ Wardeh, P J de Feyter, PW. Serruys.

Circulation: 2001 Jan 2; 103(1):14-7.

18. Clinical and angiographic follow-up after implantation of a 6.0-12.0 μ Ci radioactive stent in patients with coronary artery disease.

Wardeh AJ, Knook AH, Kay IP, Sabate M, Coen VLMA, Ligthart JMR, den Boer A, Levendag PC, van der Giessen WJ, Serruys PW.

Eur Heart J. 2001 Apr;22(8):669-75.

19. The mechanism of restenosis and vascular remodeling after cold-end radioactive stent implantation.

I P Kay, M Sabaté, K Kozuma, JMR Ligthart, M Costa, W J van der Giessen, AJ Wardeh, , P J de Feyter, PW. Serruys.

Eur Heart J. 2001 Aug;22(15):1311-7.

20. Angiographic follow-up after ^{32}P β -emitting radioactive “Cold-ends” isostent implantation: a multicenter trial.
Wardeh AJ, Albiero R, Kay IP, Kozuma K, Foley DP, Knook AH, Colombo A, van der Giessen WJ, Levendag PC, Serruys PW.
Circulation. 2002 Feb 5;105(5):550-3.
21. Geographical miss during catheter-based intracoronary radiation: Incidence and implications of the BRIE study.
Sianos G, Kay IP, Costa MA, Kozuma K, de Feijter PJ, Boersma E, Disco C, Serruys PW.
J Am Coll Cardiol. 2001 Aug;38(2):415-20.
22. Uncomplicated moderate coronary artery dissections after balloon angioplasty: good outcome without stenting.
Albertal M, Van Langenhove G, Regar E, Kay IP, Foley D, Sianos G, Kozuma K, Beijsterveldt T, Carlier SG, Belardi JA, Boersma E, Sousa JE, de Bruyne B, Serruys PW; DEBATE II Study Group.
Circulation. 2002 Apr 2;105(13):1573-8.
23. Geographic Miss: A Cause of Treatment Failure in Radio-Oncology Applied to Intracoronary Radiation Therapy. Response.
Suhrid Parikh, Dattatreya Nori, Prabhakar Tripuraneni, Manel Sabaté, Marco A. Costa, Ken Kozuma, I. Patrick Kay, Willem J. van der Giessen, Veronique L.M.A. Coen, Jurgen M.R. Ligthart, Pedro Serrano, Peter C. Levendag, Patrick W. Serruys
Circulation 2001 103: 65e-66e.
24. Initial observation regarding changes in vessel dimensions after balloon angioplasty and stenting followed by catheter-based beta-radiation. Is stenting necessary in the setting of catheter-based radiotherapy? Kozuma K, Costa MA, van der Giessen WJ, Sabate M, Kay IP, Levendag PC, Serruys PW.
Eur Heart J. 2002 Apr;23 (8):641-9.
25. Drug-eluting stents for coronary bifurcations: insights into the crush technique.
Ormiston JA, Currie E, Webster MW, Kay P, Ruygrok PN, Stewart JT, Padgett RC, Panther MJ.
Catheter Cardiovasc Interv. 2004 Nov;63(3):337-8.
26. First-in-Human Safety and Efficacy Study of the Endeavor ABT-578-Eluting Phosphorylcholine-Encapsulated Stent System in de novo Native Coronary Artery Lesions: Endeavor I Trial
Ian T. Meredith, John Ormiston, Robert Whitbourn, I Patrick Kay, David Muller, Mark Adams, Con Aroney, Mark Pitney, Jeffrey J. Popma, Peter Fitzgerald, Peter Zimetbaum, Donald Cutlip, Ross Prpic, Richard E. Kuntz.
Eurointervention 2005;2:157-164

27. Elevated Plasma Active Matrix Metalloproteinase-9 Level Is Associated With Coronary Artery In-Stent Restenosis.

Jones GT, Kay IP, Chu JW, Wilkins GT, Phillips LV, McCormick M, Van Rij AM, Williams MJ.

Arterioscler Thromb Vasc Biol. 2006 Jul; 26(7): 1538

28. Very Late Acquired Stent Malapposition After Sirolimus Coronary Stent Implantation: a possible cause of late stent thrombosis

I Patrick Kay, Mark WI Webster, Peter N Ruygrok, James T Stewart, John A Ormiston, Euro intervention V3 Feb 2007 e-pages

Books

Cardiac Catheterisation and Percutaneous Intervention

Editors: IP Kay, M Sabaté, M Costa. Martin Dunitz, London 2004.

Book Chapters

1. *Intravascular Ultrasound in Cardiology*. Excerpta Medica 1999.

Kay IP, Sabate M, De Feyter PJ.

2. Beware the calcified circumflex. M Rothman et al. *100 Cases in interventional cardiology*. Martin Dunitz 2003.

Kay IP, Whelan A.

3. Who Should Not Go To The Cath-Lab. IP Kay and RJ Walker.

Cardiac Catheterisation and Percutaneous Intervention

Editors: IP Kay, M Sabaté, M Costa. Martin Dunitz, London 2004.

4. Vascular Access. IP Kay.

Cardiac Catheterisation and Percutaneous Intervention

Editors: IP Kay, M Sabaté, M Costa. Martin Dunitz, London 2004.

5. Restenosis and Brachytherapy. IP Kay.

Cardiac Catheterisation and Percutaneous Intervention

Editors: IP Kay, M Sabaté, M Costa. Martin Dunitz, London 2004.

6. Distal Protection Devices. IP Kay and M Webster.

Tips and Tricks of Interventional Cardiology

Editors: M Sabaté. Taylor and Francis, London 2009.