

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Joanna Chikwe
Nationality: British
Date of birth: 22nd July 1971

EDUCATION

Graduate: Cambridge University 2000 - 2001
M. Phil 2001

Oxford University Medical School 1994 - 1997
BM BCh (MD equivalent) 1997
University of the State of New York conferred MD 2009

Undergraduate: University College London School of Medicine 1991 - 1994
B.Sc (Hons) 1997

CURRENT POSITION

Associate Program Director 2008 - present
Assistant Professor
Department of Cardiothoracic Surgery, Mount Sinai Medical Center, New York

Consulting Cardiothoracic Surgeon 2009 - present
Elmhurst Hospital, New York

RESIDENCY AND FELLOWSHIP TRAINING

Valve reconstruction fellowship 2006 - 2008
Mount Sinai Hospital, New York. Dr David H Adams MD

Cardiothoracic residency 2001 - 2006
Royal Brompton and Harefield Hospitals, UK. Professor John Pepper

General Surgery residency 1998 - 2000
Cambridge University Addenbrooke's and Papworth Hospitals, UK

General Surgery internship 1997 - 1998
Oxford University John Radcliffe Hospitals, UK. Professor Sir Peter Morris

BOARD CERTIFICATION AND LICENSURE

Fellow of the Royal College of Surgeons of England, Cardiothoracic Surgery 2006
Member of the Royal College of Surgeons of England, General Surgery 2000
United States Medical Licensing Examination Step I, II and III 2006, 2008
New York License Number 003227 2008 - 2011
General Medical Council, UK 4445968 1997 - present

AWARDS AND PRIZES

Post graduate

Society of Cardiothoracic Surgeons of Great Britain, Cardiac Scholarship	2006
HCA International Foundation Travelling Fellowship	2006
Fulbright Scholarship (offered)	2001
Berkley Fellowship (University College London and Cambridge University)	2001
Royal College of Surgeons of England Enid Linder Research Fellowship	2000

Undergraduate

Elective Award, Oxford University	1997
St Peter's Society Award, Oxford University	1997
Wellcome Foundation Research Studentship	1994
University College London Dissertation Prize. <i>Proxime accessit.</i>	1994
Sir Henry Foyle Award	1993

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS

European Association for Cardiothoracic Surgeons	2009 - present
Society of Cardiothoracic Surgeons of Great Britain and Ireland	2001 - present
Royal College of Surgeons of England	2000 - present
Royal Society of Medicine	2006 - present
British Medical Association	1997 - present

COMMITTEES

Chair, Education Review Committee, Mount Sinai Medical Center	2009 - present
Member, School of Medicine Selection Committee, Mount Sinai	2009 - present
Member, School of Medicine Admissions Committee, Mount Sinai	2009 - present
Member, American Heart Association Go Red for Women Committee	2009 - present
Member, Institutional Review Board, Mount Sinai Medical Center	2008 - present
Chair, <i>Ad hoc</i> High risk Patient Discharge, Mount Sinai Medical Center	2008 - 2009
Member, Blood Conservation Committee, Imperial College London	2005
Member, School of Medicine Interview Panel, Cambridge University	2001

TEACHING RESPONSIBILITIES AND RECOGNITION

Associate Program Director, Mount Sinai Medical Center	2008 - present
Cardiothoracic Surgery Network Residents' Section Advisor	2009 - present
Chair, medical student cardiothoracic surgery interest group	2008 - present
Course Director Cardiothoracic Advanced Life Support, London	2005
Course Director National Surgery Review Courses, Cambridge	2000 - 2001
Course Director National Anatomy Review Course, Cambridge	2000
Cambridge University Clinical Supervisor	1998 - 2001

RESEARCH

Qualifications

PhD research, Imperial College London

- Currently registered as an MD (Res) degree, with plan to upgrade to PhD in 2009 based on results of studies being carried out at Mount Sinai Medical Center, New York
- Hypothesis: Prior coronary stenting adversely affects outcome of elective CABG.
- Resulted to date in papers in *Annals of Thoracic Surgery* and *the European Heart Journal*, and abstract presented at International Society Minimally Invasive Cardiac Surgery, 2007, Rome

M. Phil., Cambridge University

- Thesis: OX40 (CD 134) blockade inhibits the co-stimulatory cascade and promotes heart allograft survival, successfully defended 2001. Resulted in publication in *Transplantation*, and several abstract presentations

Relevant laboratory research experience

Mount Sinai Medical Center. Co-investigator Dr Pedro Moreno 2008-present
Porcine recovery model coronary microvascular dysfunction after PCI
Conceived and designed study, established experimental model with positive initial results

Cambridge University. Supervisor Professor John Andrew Bradley 1999-2001
Murine model of immune modulation post heterophic heart transplant.
Funded by fellowship from Royal College of Surgeons
Secured funding, established animal model, carried out all experimental work and data analysis
Expertise in microvascular dissection, immunohistochemistry, flow cytometry

Clinical research

Principal Investigator. Tricuspid annuloplasty during mitral repair, 2009 - present
Principal Investigator. Mitral valve surgery in octogenarians, 2007 - present
Co-investigator. Diastolic dysfunction and outcome after valve replacement 2008 - present
Co-investigator. Ross procedure: long term outcome 2008 - present

Postgraduate research supervision

Andrew Goldstone, Doris Duke Research Fellow (Mentor) 2009 - present
Ashwin Kamath, Summer Research Studentship (Mentor) 2009 - present
Kevin N Su, Rafael Harari, Adanna Akujuo, Shinobu Itagaki (Research supervision) 2009 - present

Academic peer review

- Editorial Board Member: Seminars in Cardiovascular Anesthesia 2009 - present
- *Ad hoc* peer reviewer for:
 - British Medical Journal
 - Journal of Heart Valve Disease
 - Cardiology
 - British Journal of Cardiology
 - Heart Lung Circulation

PUBLICATIONS

Books

- *Handbook of Cardiothoracic Surgery*. Oxford University Press. **Joanna Chikwe**, Emma Beddow, Brian Glenville. Published 2006. 808 pages. Lead author. Second edition in press.
- *The Oxford Handbook of Clinical Surgery, 3rd edition*. Oxford University Press. Neil Borley, **Joanna Chikwe**, Greg McLatchie. Published 2007. 800 pages. Editor. 4th edition in press.
- *Perioperative Medicine*. Oxford University Press. **Joanna Chikwe**, Axel Walther, Phil Jones. Oxford University Press. Published 2009. Lead author

Chapters

- *The Hybrid Operating Room* by **Joanna Chikwe** and Vivek Reddy in *Kaplan's Cardiac Anesthesia*. 5th Edition. Saunders. Washington. In Press.
- *Surgery for Endocarditis* by **Joanna Chikwe** in *Valvular Heart Disease*. 2nd Edition. Oxford University Press. Oxford. In Press.
- *Degenerative Mitral Valve Disease* by, Farzan Filsoufi, **Joanna Chikwe** and David H Adams in Sabiston's *Surgery of the Chest*. 8th Edition. Elsevier. Philadelphia. In Press
- *Cardiac Surgery* by **Joanna Chikwe** and Thanos Athanasiou in *Key Topics in Surgical Research*. Edited by Thanos Athanasiou and Lord Ara Darzi. Imperial College Press. London. In Press
- *Cardiothoracic Surgery* by **Joanna Chikwe** in *Training in Surgery*. Oxford University Press, Oxford. 2009. 433 pages
- *Cardiothoracic Surgery* by **Joanna Chikwe** in *The Oxford Handbook of Surgical Cross-Cover* Oxford University Press, Oxford. 2008. 609 pages
- *Cardiothoracic Surgery* by **Joanna Chikwe** and Thanos Athanasiou, in *Complications in Surgery*. Edited by Nadey Hakim and Vassilios Papalois. Imperial College Press, 2007. 1016 pages

M.Phil Thesis

- **Chikwe J**. OX40 (CD 134) blockade inhibits the co-stimulatory cascade and promotes heart allograft survival. M. Phil Thesis. Cambridge University

Peer Reviewed Publications

1. **Chikwe J**, Croft LB, Goldstone AB, Castillo JG, Rahmanian P, Adams DH, Filsoufi F. Comparison of the Results of Aortic Valve Replacement With or Without Concomitant Coronary Artery Bypass Grafting in Patients with Left Ventricular Ejection Fractions $\leq 30\%$ vs. Patients with Ejection Fractions $>30\%$. *American Journal of Cardiology*. In press
2. **Chikwe J**, Castillo JG, Rahmanian P, Akujuo A, Silvay G, Adams DH, Filsoufi F. The impact of preoperative dialysis dependent compared to non-dialysis dependent end-stage renal failure on outcomes after coronary artery bypass surgery. *Journal of Cardiothoracic and Vascular Anesthesia*. Accepted pending revisions
3. **Chikwe J**, Fischer GW, Anyanwu AC, Lin HM, Su KN, Castillo JG, Lang RM, Adams DH. Can three dimensional echocardiography accurately predict the complexity of mitral valve repair? *Journal of the American Society of Echocardiography*. Pending revisions
4. **Chikwe J**, Adams DH. State of the Art: Degenerative Mitral Valve Disease. *Heart Lung Circulation*. 2009; 18: 312-29
5. **Chikwe J**, Fischer GW, Adams DH. Inverted left atrial appendage. *Journal of the American College of Cardiology*. 2009; 54: 17

PUBLICATIONS CONTINUED

6. **Chikwe J**, Raikhelkar J, Filsoufi F, Fischer A, Current concepts in ablation of atrial fibrillation. *Seminars in Cardiovascular and Thoracic Anesthesia*, In Press
7. Adams DA, Anyanwu A, **Chikwe J**, Filsoufi F. Cardiac Surgery: Year In Review. *Journal of the American College of Cardiology* 2009; 53: 2389-403
8. Akujuo A, Fischer G, **Chikwe J**. Current Concepts in reoperative cardiac surgery. *Seminars in Cardiovascular and Thoracic Anesthesia*, In Press
9. **Chikwe J**, Athanasiou T, Collins P, Pepper J. Can we safely assume that elective coronary artery surgery offers equivalent outcomes in patients with and without previous coronary stents? *European Heart Journal*. 2007, 28: 2651
10. Panesar SS, **Chikwe J**, Mirza SB, Rahman MS, Warren O, Rao C, Negus J, Zacharakis E, Darzi A. Off-pump coronary artery bypass surgery may reduce the incidence of stroke in patients with significant left main stem disease. *Thorac Cardiovasc Surg* 2008; 56: 247-55
11. Rao C, Stanbridge R, **Chikwe J**, Pepper J, Skapinopolos P, Aziz O, Darzi A, Athanasiou T. Does previous coronary stenting compromise the efficiency of subsequent coronary artery bypass surgery? A microsimulation study. *Ann Thorac Surg*. 2008; 85: 501-7
12. Rahmanian PB, Filsoufi F, Castillo JG, **Chikwe J**, Adams DH. Predicting postoperative renal failure requiring dialysis and an analysis of long-term outcome in patients undergoing valve surgery. *J Heart Valve Dis*. 2008; 17: 657-6
13. Filsoufi F, Rahmanian PB, Castillo JG, **Chikwe J**, Adams DH. Logistic risk model predicting postoperative respiratory failure in patients undergoing valve surgery. *Eur J Cardiothorac Surg*. 2008; 34: 953-9
14. Filsoufi F, **Chikwe J**, Castillo JG, Rahmanian PB, Vassolotti J, Adams DH. Prosthesis type has minimal impact on survival after valve surgery in patients with moderate to end-stage renal failure. *Nephrol Dial Transplant*. 2008; Jul7
15. Filsoufi F, Rahmanian P, Castillo J, **Chikwe J**, Kini AS, Adams DH. Results and predictors of early and late outcome of coronary artery bypass grafting in patients with severely depressed left ventricular ejection fraction. *Annals of Thoracic Surgery*. 2007; 84: 808-816
16. Filsoufi F, Rahmanian P, Castillo J, **Chikwe J**, Adams DH. Excellent results of contemporary coronary artery bypass grafting with systematic application of modern perioperative strategies. *Heart Surgery Forum*. 2007; 10: E349 – 56
17. Filsoufi F, Rahmanian P, Castillo J, **Chikwe J**, Silvay G, Adams DA. Results and predictors of early and late outcomes of coronary artery bypass graft surgery in octogenarians. *J Cardioth and vasc anaesthesia*. 2007; 21: 784-92
18. Rahmanian P, Filsoufi F, Castillo J, **Chikwe J**, Adams DH. Tracheostomy is not a risk factor for deep sternal wound infection after cardiac surgery. *Ann Thorac Surg*. 2007; 84: 1984-91
19. Filsoufi F, Rahmanian P, Castillo J, **Chikwe J**, Silvay G, Adams DH. Excellent outcomes of aortic valve surgery in people aged 80 or over. *J Am Geriatr Soc*. 2007; Nov 7 Epub

PUBLICATIONS CONTINUED

20. Rahmanian P, Adams DH, Castillo J, **Chikwe J**, Bodian CA, Filsoufi F. Impact of Body Mass Index on Early Outcome and Late Survival in Patients Undergoing Coronary Artery Bypass Grafting or Valve Surgery or Both. *Am J Cardiol.* 100; 11: 1702-8.
21. Filsoufi F, Rahmanian P, **Chikwe J**, Castillo J, Adams DH. Early and late outcomes of patients with moderate to severe renal dysfunction without dialysis. *Interact Cardiovasc Thorac Surg.* 2007 Nov 22 Epub ahead of print
22. Filsoufi F, Rahmanian P, Castillo J, **Chikwe J**, Kini Y, Adams DH. Predictors and outcome of respiratory failure after cardiac surgery. *Chest.* 2008; 133:713
23. Filsoufi F, Jouan J, **Chikwe J**, Rahmanian P, Castillo J, Carpentier AF, Adams DH. Results and predictors of early and late outcome of coronary artery bypass grafting in patients with ejection fraction less than 20%. *Arch Cardiovasc Dis.* 2008; 101: 547-56
24. Castillo J, Silvay G, **Chikwe J**. Cardiac anesthesia and surgery in geriatric patients: epidemiology, current surgical outcomes and future directions. *Heart Surgery Research Proceedings in Intensive Care and Cardiovascular Anesthesia.* In Press
25. Anyanwu A, **Chikwe J**, Adams DH. Surgical management of tricuspid valve disease. *Current Cardiology Reports.* 2008; 10: 110-7
26. Rao C, Athanasiou T, **Chikwe J**. Does previous coronary stenting compromise the efficiency of subsequent coronary artery bypass surgery? Reply. *Ann Thorac Surg* 2008; 86: 1052-1053
27. Silvay G, Castillo JG, **Chikwe J**, Flynn B, Filsoufi F, Cardiac Anesthesia and Surgery in Geriatric Patients. *Semin Cardiothorac Vasc Anesth.* 2008; 12:18-28
28. Filsoufi F, **Chikwe J**, Castillo JG, Sanz J. Multimodal imaging characterization of intra-cardiac thrombus and myxoma. *Ann Thorac Surg.* 2008; 85: 2162-3
29. **Chikwe J**, Donaldson J, Wood AJ. Minimally invasive cardiac surgery. *British Journal of Cardiology.* 2006. 13 (2) 123-128
30. **Chikwe J**, Athanasiou T, Casula R. Recent advances in adult cardiac surgery. *Br J Hosp Med.* 2006. 67 (4) 2005
31. Curry A, **Chikwe J**, Smith XG, Schwarz H, Bradley JA, Bolton EM. OX40 (CD134) blockade inhibits the co-stimulatory cascade and promotes heart allograft survival. *Transplantation.* 2004. 78(6): 807-14
32. **Chikwe J**, Pepper JR. The surgical management of mitral valve disease. *British Journal of Cardiology.* 2004. 11 (7) 42 – 9.
33. **Chikwe J**, de Souza A. C, Pepper J. No time to train the surgeons? *British Medical Journal.* 2004. 328; 418-9
34. **Chikwe J**, Barnard J, Pepper JR. Myocardial abscess. *Heart.* 2004. 90 (6): 597
35. **Chikwe J**, Pepper JR. The current status of combined cardiac and renal transplantation: Review article. *British Journal of Cardiology.* 2002. 9 (9) 519-23

PUBLICATIONS CONTINUED

36. **Chikwe J**, Walther A, Pepper JR. The surgical management of aortic valve disease. *British Journal of Cardiology*. 2003. 10 (6) 453 – 459.
37. **Chikwe J**, Ovens L. Dilemmas in managing intracerebral haemorrhage and thromboembolism. *J. Soc Med*. 2004. 97 (6): 309
38. Malata CM, Hodgson EL, **Chikwe J**, Canal AC, Purushotham AD. An application of the LeJour vertical mammoplasty pattern for skin sparing mastectomy. *Ann Plast Surg* 2003. 51 (4) 345-50
39. **Chikwe J**. Evidence based general practice. Findings of study should prompt debate. *British Medical Journal*. 1996. 313, 114-5.
40. Ellis J, Mulligan I, Rowe J, Sackett DL, Box B, Burgoyne L, Carroll C, **Chikwe J**, Christofi G, Hughes D, Jeffery K, Jones R, Peacock S, Reid M, Tandon K, Wood Allum C, Walter S. Inpatient medicine is evidence based. *Lancet* 1995; 346: 407-410
41. Goldstone AB, **Chikwe J**, Stelzer B. Modified Cabrol Procedure. *Annals of Thoracic Surgery* In Press
42. **Chikwe J**, Bowditch M, Villar R. N. V, Bedford A. F, Sleeping with the Enemy. *Journal of the Royal Society of Medicine*. 2000. 93 (9). 478-9
43. **Chikwe J**. Art and literature in the anatomy of Charles Bell. *Journal of the Royal College of Surgeons of Edinburgh*. 1994. 39 (4), 201-7.
44. Sanudo J, **Chikwe J**, Evans S. Anomalous median nerve associated with persistent median artery. *Journal of Anatomy*. (Pt. 2) 1994. 447-51

Abstracts presented at international scientific meetings

1. Mitral valve repair in octogenarian patients
Joanna Chikwe, Javier Castillo, Anelechi Anyanwu, David H Adams
Society of Heart Valve Disease, 2009 Berlin
2. Can three dimensional echocardiography predict mitral repair complexity?
Joanna Chikwe, Greg Fischer, Javier Castillo, Anelechi Anyanwu, David H Adams
Society of Heart Valve Disease, 2009 Berlin
3. Early and late outcomes of aortic valve replacement for aortic stenosis in patients with severely depressed left ventricular function.
Javier G Castillo, Parwis Rahmanian, **Joanna Chikwe**, Farzan Filsoufi, David H Adams
Society of Heart Valve Disease, 2009 Berlin
4. Systematic strategy to attempt repair of all degenerative mitral valves yields a near 100% repair rate
Javier G Castillo, Anelechi Anyanwu, **Joanna Chikwe**, David H Adams
Society of Heart Valve Disease, 2009 Berlin

PUBLICATIONS CONTINUED

Abstracts presented at international scientific meetings

5. Tricuspid valve repair

Joanna Chikwe, Javier Castillo, Anelechi Anyanwu, David H Adams
Society of Cardiothoracic Surgeons of Great Britain and Ireland, 2009 Bournemouth

6. Useful tips and techniques in Barlow's mitral valve repair.

David H Adams, **Joanna Chikwe**, Javier Castillo, Farzan Filsoufi, Anelechi Anyanwu
European Association of Cardiac and Thoracic Surgeons 2008, Lisbon

7. Surgical techniques and management in carcinoid heart disease

Anelechi Anyanwu, Javier Castillo, **Joanna Chikwe**, Gregory Fischer, David H Adams
European Association of Cardiac and Thoracic Surgeons 2008, Lisbon

8. Leaflet reconstruction with glutaraldehyde fixed autologous pericardium in complex mitral valve repair.

David H Adams, Parwis Rahmanian, **Joanna Chikwe**, Javier Castillo, Anelechi Anyanwu, Farzan Filsoufi
Society of Thoracic Surgeons, 2008, Fort Lauderdale

9. Respiratory failure and not tracheostomy is a risk factor for deep sternal wound infection

Joanna Chikwe, Javier Castillo, Parwis Rahmanian, Farzan Filsoufi, David H Adams
Society of Cardiothoracic Surgeons of Great Britain and Ireland, 2008, Edinburgh

10. Mitral valve reconstruction with autologous glutaraldehyde fixed pericardium

Joanna Chikwe, Anelechi Anyanwu, Javier Castillo, Parwis Rahmanian, Farzan Filsoufi, David H Adams
Society of Cardiothoracic Surgeons of Great Britain and Ireland, 2008, Edinburgh

11. Does previous percutaneous coronary stenting compromise the efficacy of subsequent coronary artery bypass grafting and how can revascularization strategies be optimized?

Christopher Rao, Rex Stanbridge, **Joanna Chikwe**, John Pepper, Petros Skapinakis, Andre Chow, Omer Aziz, Ara Darzi, Thanos Athanasiou
International Society Minimally Invasive Cardiac Surgery, 2007, Rome

11. Robotic assisted totally endoscopic lobectomy

Andrew Smith, **Joanna Chikwe**, Ashok Cherian, Alex Charitou, Rex Stanbridge
Society Cardiothoracic Surgeons Great Britain and Ireland, 2006, Dublin

12. Off-pump repair of postinfarction ventricular septal defects.

Joanna Chikwe, Ian Morgan, Alan Wood.
International Society of Minimally Invasive Cardiac Surgery, 2005, New York

13. Co-stimulatory molecules in cardiac transplantation: OX40-OX40L blockade prolongs allograft survival.

Joanna Chikwe, Alison Curry, Eleanor Bolton, John Andrew Bradley.
British Society of Immunology, 2001, London
British Transplantation Society, 2002, Oxford

14. Combined heart and kidney transplantation: UK outcomes.

Joanna Chikwe, John Pepper, Peter Andrews.
British Transplantation Society, 2002, London

INVITED LECTURES

International meetings

Pericardial patch repair of the mitral valve Society of Heart Valve Disease, Berlin	2009
Outcomes of cardiac surgery in octogenarians Perioperative Care of the Geriatric Patient, Prague	2009
Spectrum of Degenerative Mitral Valve Disease American Society of Echocardiography, San Francisco	2009

Local Institutions

Cardiology Grand Rounds Northshore Hospital, New York	2009
Cardiology Grand Rounds Elmhurst Hospital, New York	2009
Medical Education Seminar, Cornwall Hospital, New York	2009
Cardiothoracic Surgery Grand Rounds, Mount Sinai Medical Center	2007 - present

COURSES AND MEETINGS ATTENDED

Scientific Meetings

Annual Meeting of American Association of Thoracic Surgeons Society of Thoracic Surgeons	2006 - 2009 2009
Annual Meeting Society of Heart Valve Disease	2007, 2009
Annual Meeting Society of Cardiothoracic Surgeons of Great Britain	2001- 2009

Clinical courses and symposia

Heart Valve Summit (AHA), Boston	2007
Developing the Academic Surgeon (AATS), Washington	2007
Thoracic Surgery Review Course (Harvard Medical School), Boston	2005
Surgical Treatment for Atrial Fibrillation (ISMICS), New York	2005
The London Endovascular Course (St Mary's Hospital), London	2006
Royal College of Surgeons Cardiothoracic Skills courses	2000 - 2006

Research, teaching and management

Team building, managing change and conflict resolution (Kings Fund)	2006
Teaching the Teachers to Teach (Cambridge University)	2001
Research Methods (Royal College of Surgeons)	2001
Critical Appraisal (Royal College of Surgeons)	2001

Other Qualifications

Advanced Cardiac Life Support Provider	1997
Advanced Trauma Life Support Provider	1998
Paediatric Advanced Life Support Provider	2005
Home Office Animal Licence	2001