

CURRICULUM VITAE

DAVID ROBERT SALTER, MD, FRCS(c), FACS, FACC

Associate Professor of Surgery

Virginia Commonwealth University School of Medicine
Medical College of Virginia

June 11, 2002

1. PERSONAL INFORMATION:

Date and Place of Birth: January 28th 1950
St Anthony, Newfoundland, Canada

Citizenship: Canadian
Resident Alien U.S. # AO43830488

Social Security #: 245-43-6322

Canadian Social Ins. #: 434-303-822

Marital Status: Married, Margita Ibergs (6/28/73)

Home Address: 101 Windsor Way
Richmond, Virginia
23221.

Home Telephone #: (804) 355-2873

Business Address: Department of Surgery
Medical College of Virginia
P.O. Box 68, MCV Station
Richmond, Virginia
23298

Office Telephone #: (804) 828-2776 (MCV)
FAX #: (804) 628-0537
Voice Mail #: (804) 278-2120
INTERNET: DRALTER@VCU.EDU
Pager #: (804) 204-8136

2. LICENSURE

2.1 State and Provincial Licensure

- 1975 College of Physicians and Surgeons of Ontario (Certificate # 27474)
- 1975 Canadian Medical Protective Association (Certificate # 022807-9)
- 1989 Commonwealth of Virginia Department of Health Professions
(Certificate # 0101044224)

2.2 Name of Board Certification and Date

- 1975 Medical Council of Canada (Certificate #38814)
- 1981 Fellow of the Royal College of Physicians and Surgeons of Canada
General Surgery (Certificate # 3802)
- 1983 Fellow of the Royal College of Physicians and Surgeons of Canada
Cardiovascular and Thoracic Surgery (Certificate # 205)
- 1993 Fellow of the American College of Surgeons (Certificate #3021610)

3. EDUCATION

- 1968 - 1974 MD University of Toronto Magna Cum Laude

[Undergraduate Positions]

- 1970-1971 Football Representative, Medical Athletic Association, University of Toronto
- 1971-1972 President, Medical Athletic Association, University of Toronto

4. MILITARY SERVICE RECORD

N/A - Canadian Citizen

5. POSTDOCTORAL TRAINING OR SPECIAL EXPERIENCE

- 1984 - 1986 Surgical Research Fellow - Duke University (Dr. David Sabiston - Chairman)
(Dr. Andrew S. Wechsler - Cardiac Surgery research lab)
- Retrograde coronary sinus cardioplegia, atrial cardioplegia
 - LVH and RVH tolerance of ischemia
 - The immature myocardium and ischemia
 - Papillary-annular continuity and mitral valve mechanics in normal and failing hearts
 - Langendorff evaluation of orotic acid and ischemia
 - RV function and Amrinone
 - Right heart assist following right heart injury
- 1983 - 1984 Associate Staff Cardiac Surgeon - Toronto Western Hospital
(Dr. Tirone David - Division Head)
(Dr. Donald R. Wilson - Department Chairman)
- 1982 - 1983 Fellow, Pediatric Cardiac Surgery - Hospital for Sick Children (6 months)
(Dr. George Trusler - Division Head)
- Fellow, Adult Cardiac Surgery - Toronto Western Hospital (6 months)
(Dr. Tirone David - Division Head)
- 1981 - 1982 Fellow, Adult Cardiac Surgery - Toronto General Hospital (6 months)
(Dr. Ronald Baird - Division Head)
- Fellow, Thoracic Surgery - Toronto General Hospital (6 months)
(Dr. "Griff" Pearson - Division Head)
- 1980 - 1981 Chief Resident, General Surgery - Toronto Western Hospital (12 months)
- 1979 - 1980 Senior Resident, General and Vascular Surgery - Mt Sinai Hospital
(6 months)
Senior Resident, GI Medicine - St Michael's Hospital (6 months)

Curriculum Vitae David R. Salter, M.D.

- 1978 - 1979 JAR, General and Thoracic Surgery - East General Hospital (6 months)
JAR, General and Thoracic Surgery - Women's College Hospital (6 months)
- 1977 - 1978 AR, Neurosurgery - Toronto Western Hospital (3 months)
AR, Intensive Care - Toronto Western Hospital (3 months)
AR, Cardiovascular Surgery - Toronto Western Hospital (6 months)
- 1977 Registrar, Surgical Pathology - Auckland Hospital, University of Auckland,
New Zealand (6 months)
- 1974 - 1975 Rotating Internship - Toronto Western Hospital
- 1972 Surgical Research (Summer Student) Wellesley Hospital,
University of Toronto, Director. André Beaupré, M.D.
- 1971 Cardiovascular Research (Summer Student) Banting Institute & Medical
Sciences Building, University of Toronto, Cardiovascular Surgery.
Director. Dr Ray O. Heimbecker and Dr. William Bigelow

6. ACADEMIC APPOINTMENTS OR OTHER SIGNIFICANT WORK EXPERIENCE

- 1989 - Medical College of Virginia Hospitals (Associate Professor of Surgery)
- 2001 Board member and Associate Director of the Virginia Heart Institute (consultative)
- 2001 Faculty member Harvard Macy International (<http://www.hms.harvard.edu/hmi>)
- 2001 Board of Advisors - Ernst David Warkentin International - web-based placements
program
- 1997-2001 Director Clinical Curriculum, School of Medicine (M-III), MCV
- 1989-1997 Staff Cardiothoracic Surgeon, Richmond Community Hospital
- 1994-2001 Director Undergraduate Surgical Education, Medical College of Virginia
- 1998-1999 Interim Chair Division of Cardiothoracic Surgery MCV
Director of the CT Fellowship Program and MCV Cardiac Transplant Program
- 1989-1996 Chief, Cardiothoracic Surgery Section, McGuire VAMC
Director Surgical Intensive Care Unit - McGuire VAMC

Curriculum Vitae David R. Salter, M.D.

Co-director of the Cardiothoracic Transplant Program,

1986 - 1989 Assistant Professor of Surgery, Toronto Western Hospital,
University of Toronto (Dr. Tirone David – Division Head)

1975 - 1977 Family Practice: Dufferin Area Hospital Orangeville & Bolton, Ontario
Haldiman County Hospital, Hagersville, Ontario
St. Rita's & Sydney City Hospital, Nova Scotia

7. MEMBERSHIP - SCIENTIFIC, HONORARY AND PROFESSIONAL SOCIETIES

Ontario Medical Association

Canadian Medical Association

Fellow of the Royal College of Physicians and Surgeons of Canada

Fellow of the College of Physicians and Surgeons of Ontario

International Society of Heart Transplantation

Surgical Society of Virginia

Richmond Academy of Medicine (General and History Section membership)

Fellow of the American College of Cardiology

Fellow of the American College of Surgeons

Association for Surgical Education

Society of Thoracic Surgeons

Academy of Surgical Research

Thoracic Surgery Directors Association

CTS Net Surgeons

Curriculum Vitae David R. Salter, M.D.

8. MEMBERSHIP IN COMMUNITY ORGANIZATIONS

MG Car Club of Richmond
MG T Register of New England
Vintage Auto Racing Association of Canada
Maritime Historical Society (USA)
Austin Healy Association of America
Tidewater Austin Healy Club (TACH)
International Churchill Society
Friends of the Boatwright Memorial Library (U of R)
The Westwood Racquet Club
The Chrysalis Group, St Paul's Church

9. SPECIAL AWARDS, FELLOWSHIPS AND OTHER HONORS

9.1 Awards

1968 Metropolitan Toronto High School Science Fair (*1st prize*)
1968 *Ontario Scholar*
1973 *Athletic Letter*, University of Toronto, Medical Athletic Association
1987 Canadian Cardiovascular Society, *Young Investigator Award*
1991 Recognition in Richmond Surroundings Magazine "*Doctors of the Year*"
1992 Nominated for Medical College of Virginia Faculty AOA
1994 Nominated for "*Best Attending*" by M-94 Class MCV
1997 Accepted for the Harvard-Macy Physician Educators Program
(01/12-22 and 05/14-21 1997)
1997 Medical College of Virginia M-III *Attending of the Year*
1998 Medical College of Virginia M-III *Excellence in Teaching Faculty Award*
1998 Accepted for Harvard Leadership in Medicine Program June 1998
1999 Nominated for "*Best Attending*" by M-99 Class MCV

Curriculum Vitae David R. Salter, M.D.

- 1999 Nominated for “*The Golden Apple Award*” by M-99 Class MCV
- The Whitby Award* in Clinical Teaching MCV (recognizes superior teaching in clinical medicine taught in the last two years of medical school and encourages excellence in an increasingly complicated and challenging educational environment.)
- Outstanding Course and Clerkship Teacher Pin Awards
"Best teacher in the Surgery Clerkship"
- 2000 *Instructional Development Center Award* (\$7,000) "Mentoring 2000" VCU Computing Program to enhance expertise in Technology and its application in education. *"Integrating Web-Enhanced Education in the Clinical Years of Medical School."*
- 2001 Executive Program "*Skills for the New World of Health Care*" Nov 11th - 19th 2000 A Health Policy Program for Physicians, Trustees and Health Care Leaders - Harvard University - a joint program with Division of Policy Research and Education, Harvard Medical School, Harvard School of Public Health, John F. Kennedy School of Government

10. MAJOR COMMITTEES

10.1 University Committees - Past

- 1974-1975 Intern Educational Committee, Toronto Western Hospital
Chairman: Evan Monkman, M.D.
- 1983-1984 Committee to Evaluate Postgraduate Surgical Education (U of T)
Chairman: R.M. Stone, M.D.
- 1983-1984 Postgraduate Education Committee Cardiovascular Training Program
Chairman: B.S. Goldman, M.D.
- 1986-1989 Infection Control Committee Toronto Western Hospital, Surgery Department Representative Chairman: David McNeeley M.D.
- Clerkship Committee Toronto Western Hospital, Cardiovascular Division Representative Chairman: R.E. Mathews M.D.
- Blood Products Committee Toronto Western Hospital, Surgery Department

Curriculum Vitae David R. Salter, M.D.

Representative Chairman: David Sutton M.D.

University of Toronto/Coronary Care Unit Director Club Committee - Patient Triage,
Urgent and Emergency Referrals Chairmen R. Baigre M.D. and B.S. Goldman M.D.

University of Toronto, Department of Surgery, Division of Cardiovascular
Surgery Research Committee Chairman: T.A. Salerno M.D.
Co-Chairman: R.D. Weisel M.D.

Tissue and Audit Committee - Toronto Western Hospital, Cardiovascular
Surgery Division Representative Chairman: R. Uldall M.D.

New Devices Committee - Toronto Western Hospital
Chairman: T. Houston M.D.

10.1 University and Clinical Committees

Past

- VA Central Office Board of Cardiothoracic Transplantation (1991-94)
- Founder and Co-Chairman, Combined Special Care Unit Committee (1989-95) (McGuire VAMC)
- Founder and Chairman, Cardiothoracic Surgery Clinical Pathways (1993-95) Committee (McGuire VAMC)
- Chair, Dept. of Surgery, Surgical Education Committee (UME and GME)
- VA Central Office National Transplantation Task Force - (The Future of Transplantation in the VA System)
- Director of the Cardiothoracic Surgery Fellowship Program
- Chair, Clinical Curriculum Committee, (M-III) VCU SOM (1997-2001)
- Chair, Cardiac Undergraduate Curriculum Renewal Committee (1998-1999)
- Co-Chairman, Renal Undergraduate Curriculum Renewal Committee (1999)
- MCV Generalist Steering Committee (1998)
- Chair MCV/VCU M-III Clerkship Committee (1995 - 2001)
- MCV "Competencies Committee" for Undergraduate Education (1998 - 2000)
- Steering Committee for the Undergraduate Medical Education Curriculum (1997)
- Renewal Project of the School of Medicine, Medical College of Virginia (1998)
- VCU School of Medicine (MCV) & (Main Campus) Library Committee (1998-99)
- VCU School of Medicine (MCV) Computer Network Committee (1997-1999)
- VCU School of Medicine (MCV) Management Team of the G.P.I. Surgery Committee - Bon Secours and RMH (1997)

Chairman – Planning Committee for the Spring 2000 Harvard Colloquium
(Hosted at MCV) March 2000

Curriculum Vitae David R. Salter, M.D.

Information Technology Committee 1999-2001
Chair - Promotions Committee for Brenda Seago - (to Ass. Prof.) fall 1999
Liaison Committee on Medical Education (LCME) - Library Subcommittee
Promotions Committee Dr. Tony Kuzel - (Prof. with tenure) fall 2000
Promotions Committee Dr. Judy Brannen - (Assoc. Prof.) fall 2000
Undergraduate Domestic Violence Curriculum Committee
Advisory Council for University Computing and Communications Services
(John D. Dayhoff) (1998-1999)
Dean's Community Computer Linkage Committee (1999)
Advisory Committee on University Policy of Sexual Harassment VCU/MCV 2000
Promotion and Tenure Committee for Dr. Andy Prinz - Fall 2001
Project M-2000 (RB Young)
- Profile of a class in evolution at the turn of the century
Teaching Excellence Awards Committee 2001 - 2003

Current

USMLE National Board Committee member 2000 - 2002 Anatomy Section
Planning Committee Mayo Macy Meeting - Mayo Clinic Sept 27th - 31st 2002

OTHER SIGNIFICANT SCHOLARLY, RESEARCH OR ADMINISTRATIVE EXPERIENCE:

ORIGINAL WORK RECOGNIZED THROUGH RESEARCH FELLOW AWARDS

- 1991 **Cornelius M. Dyke MD** David M. Hume Research Award - Humera Surgical Society
- 1991 **Cornelius M. Dyke MD** Biggar-Lehman Award 2nd prize - Virginia Surgical Society
- 1993 Created the David Hume Medical Student Society - to guide medical students who are interested in a surgical career and to provide exposure to faculty and opportunities
- 1993 **Tim Broderick MD** Young Investigator Award (SmithKline Beecham)
- 1994 **Tim Broderick MD** David M. Hume Research Award - Humera Surgical Society
- 1999 **Scott L. Green M.S.** Ph.D. Candidate Department of Psychology - VCU - advisor
Emotional Adjustment Project - Stress Evaluation after Cardiac Events
- 1999 Initiated and mentored the development of ***The Skull and Bones Clinical Survival Guide*** (A project organized for M3 Students through Robert Crawford et al.)

11.3 MAJOR TEACHING ASSIGNMENTS

Curriculum Vitae David R. Salter, M.D.

- 1993 Administration and development of *VCU\MCV M-III Surgical Education*
- 1994 Administration and development of *VCU\MCV Undergraduate Surgical Education*
- 1996 Creation of *Undergraduate Surgery Curriculum "Competencies"*
- 1996 Development of an *Undergraduate Surgery Syllabus*
- 1997 Development of *VCU Faculty Teaching Evaluation Standards*
(Incorporated into the new draft VCU\MCV promotion and tenure document)
- 1997 Founded the *"PRIME group - Projects and Research in Medical Education"*
(An educator focus group at VCU School of Medicine - 30 members)
- 1997 First *Clinical Clerkship Problem-Based Surgery Learning Tutorials* at VCU
- 1997 Harvard-Macy Scholar Personal Project (*the electronic curriculum*)
(Developing the first MCV\VCU clinical curriculum Web based curriculum - core competencies, curriculum, examinations and problem based tutorials)
- 1997 Directorship of the Clinical Curriculum (M3) - MCV School of Medicine
- 1998 *"Teaching to the Bottom of the Class Project"* (applications of business principles)
- 1998 *"The Richmond Colloquium - Continuing the Conversation - Harvard Macy Scholars"*
(Harvard Medical School and VCU School of Medicine – Convener) Initiation of the Project
- 1998 Implementation of a *Computerized Student Evaluation and Grading System*
(TDA inc)
- 1998 *Redeveloping the Housestaff and Hospital Library* (interdisciplinary project)
- 1998 M-IV student elective *M-III Information Technology project*
- 1998 *Standardization of Grading and Evaluation in the Clinical Curriculum*
- 1998 First *VCU\MCV clinical (M-III) Internet Project* (surgery rotation #1 1997)
- 1998 *"Principles of Problems and Problems of Principle" in M-III*
- 1998 *Basic Information Technology for Students (B.I.T.S.) Project*

Curriculum Vitae David R. Salter, M.D.

- 1998 *Back to School Project* - Faculty CME within VCU\SOM classroom audits
- 1998 *VCU Honors Pre-admission Student Mentoring Program with VCU School of Medicine M-III students*
- 1999 Capturing electronic teaching energies – *Library of Educational Activities that are Digitized in Surgery* (L.E.A.D.S.)
- 1999 *Integrating Principles of M1 and M2 Physiology into Surgical PBL teaching.* (Dr Linda Costanzo – Physiology and Dr. David Salter – Surgery)
- 1999 *Defining Technical and Learning Standards for the VCU School of Medicine*
- 1999 Spearheading a *Faculty Development Program to teach small group teaching*
- 1999 *Defining the Efficacy of the Decelerated Program in the VCU SOM*
- 1999 *Moderator of a 30-member national Web-based planning committee for Harvard-Macy 2000 Colloquium project*
- 2000 *Richmond Colloquium 2000* - an International Meeting to explore major issues affecting alumni of the Harvard-Macy Physician Educators and Leaders in Medicine programs. March 10th - 12th 2000 (\$52,000 project)
- 2000 Creation of an International Virtual Academy of Medical Education Scholars in coordination with the Harvard Medical School
- 2000 Associate Editor "M-2000 Class Story" (Editor Reuben B. Young M.D.)
- 2000 Reviewer "Medical Education Online (MEO) - David J. Solomon Ph.D. Editor
- 2000 Building the Clinical Curriculum Web-enhanced Education Site for M-3 in the VCU School of Medicine
David Salter, Robby Reynolds and Jim Messmer
- 2000 Development of a Standardized web-based Student Evaluation Program for the VCU School of Medicine Clinical Curriculum - the P.E.T. program
David Salter, Robby Reynolds, Jim Messmer, Meenu Toluani

Curriculum Vitae David R. Salter, M.D.

- 2000 One-day Seminar - Dewey@Digital
"Is Technology Overwhelming the Basic Principles of Medical Education?"
Roslyn Center Oct 14th 2000,
David Salter, Carolyn Stone (Conference Manager), Paul Mazmanian (Associate Dean Continuing Medical Education VCU SOM), Dennis Hoban (Dir. Research in Medical Education), Linda Costanzo, Harry Lutz (VCU University computing advisor to the Provost), Phyllis Self (Vice Provost)

- 2000 The Influence of Net-Based Information On Patients and their Physicians - a project based on over 200 student projects - data entry closed July 2000
David R. Salter

- 2000 Student log Book - *Competency Encounters Through the Clinical Clerkships*
David R. Salter, Brian Kaplan and Rifat Latifi

- 2000 Moderator M3 Surgery Bulletin Board

- 2000 Executive Program "Skills for the New World of Health Care" Nov 11th - 19th 2000
Harvard University - A Health Policy Program for Physicians, Trustees and Health Care Leaders

- 2001 Application to VCU Graduate School (March 15, 2001) - The Executive Program
Master of Science in Health Administration

- 2001 Strategic Advisor for Patient Education and Technology - Virginia Heart Institute

- 2001 Member, Advisory Committee 2nd Colloquium for Harvard Macy Leaders in Medicine and Physician Educators - Mayo Clinic (Rochester) - Fall 2002

- 2001 Digital Office Correspondence for Students (D.O.C.S.) - integrating physiology and clinical medicine through digital communications and "real time" data and patient information communication

- 2001 Small group facilitator Harvard Medical School - Leaders in Medicine Program June 18-20

- 2002 Faculty Member Harvard Macy Institute - June 16th - 22nd

- 2002 Faculty Member and Mayo Macy Meeting - Mayo Clinic September 27th - 31st

Curriculum Vitae David R. Salter, M.D.

9.3 External Grants

Dean's Fund Grant (1990)	\$ 6,000.00
American Heart Association Grant-in-Aid VA-93-G-32 (July 1993)	\$15,507.00
Smith Kline Beecham (January 1993)	\$15,000.00
Smith Kline Beecham TS106	\$45,000.00
Harvard-Macy Scholar Award	\$ 1,500.00
M-III Coursemaster Grant	\$ 4,000.00
Dean's Fund 2000	\$10,000.00

Past Grants

* Protocol RSR13 CPB-012 Feb 1999 (no longer active)

A Phase II Study to evaluate the efficacy of intravenous cardioplegia administration
Or RSR13 in moderate-to High-risk patients undergoing cardiopulmonary bypass for
Coronary artery bypass graft surgery IND No. 53,874

Allos Therapeutics Inc \$8,600 per patient x 20 = \$172,000

Principal Investigator – Dr. Richard Wolman

Co-Investigator - Dr. David Salter

* CORLOPAM study – a phase III multi-center, randomized, double-blind, placebo controlled trial to
evaluate the efficacy of Fenoldopam Mesylate in preserving renal function and decreasing healthcare
resource utilization of coronary artery bypass grafting (CABG) patients.

* *Terminated with the departure of Dr. Wolman - PI - from MCV*

Current Grants and Active Applications

Faculty Mentoring Program in Instructional Technology for Year 2000-2001 (IDC center)
[The only school of medicine mentor - \$7,000 - March 13th 2000]

Myocardial Glutamate Response to Preconditioning (July 1st 2001)

Principle Investigator Anwar Abd-Elfattah

Co-Investigator David R. Salter

NIH R01 HL64169-01 Budget: \$1,000,000 Indirect Costs \$450,000

12. BIBLIOGRAPHY

12.1 Papers published

- 1) Naqvi MA and Salter DR: Regional Intensive Care Unit. Nova Scotia Medical Bulletin, April-June, 1979.
- 2) Salter DR and Bassett A: The Role of Needle Aspiration in Reducing the Number of Unnecessary Breast Biopsies. Canadian Journal of Surgery. 24: 311, 1981.
- 3) Burnstein M, Salter DR, Cardella C, and HIMAL HS: Necrotizing Pancreatitis in Renal Transplant Patients Canadian Journal of Surgery. 25:574, 1982.
- 4) Goldstein JP, Salter DR, Abd-Elfattah AS, Murphy CE, Morris III JJ and Wechsler AS: Protective Effect of Coronary Sinus Cardioplegia During Two Hours of Cardiac Arrest. Surg Forum 36:195-197, 1985.
- 5) Morris III JJ, Goldstein JP, Salter DR, Murphy CE, Abd-Elfattah AS, and Wechsler AS: Pulmonary Artery Balloon Counterpulsation for Predominant Right Ventricular Ischemic Injury Dysfunction. A Pressure-dimension analysis of the mechanism of action. Surg Forum 36:303-305, 1985.
- 6) Salter DR, Goldstein JP, Abd-Elfattah AS, Murphy CE, Morris III JJ and Wechsler AS: The Efficacy of Continuous Retrograde Coronary Sinus Cardioplegia Without Topical Hypothermia in the Normal and Hypertrophic Ventricle. Surg Forum 36:192-194, 1985.
- 7) Murphy CE, Goldstein JP, Salter DR, Morris III JJ, Abd-Elfattah AS and Wechsler AS: The Selective Effects of Amrinone on Right and Left Ventricular Function. Surg Forum 36:287-289, 1985.
- 8) Goldstein JP, Salter DR, Murphy CE, Abd-Elfattah AS, Morris III JJ, and Wechsler AS: The Efficacy of Blood versus Crystalloid Coronary Sinus Cardioplegia During Global Myocardial Ischemia. Circulation 74: (5 Pt 2): III99-104, 1986
- 9) Salter DR, Pellom GL, Murphy CE, Brunsting LA, Goldstein JP, Morris III JJ, Abd-Elfattah AS, and Wechsler AS: Papillary-Annular Continuity and Left Ventricular Systolic Function Following Mitral Valve Replacement. Circulation 74(3 Pt 2): I121-9, 1986.
- 10) Abd-Elfattah AS, Salter DR, Murphy CE, Goldstein JP, Brunsting LA, and Wechsler AS: Metabolic Differences Between Retrograde and Antegrade Cardioplegia after Reversible Normothermic Global Ischemic Injury. Surgical Forum 37, 267, 1986
- 11) Wechsler AS, Abd-Elfattah AS, Murphy CE, Salter DR, Brunsting LA and Goldstein JP:

Curriculum Vitae David R. Salter, M.D.

Myocardial Protection. (review article). J of Card Surg Sept 1:(3), 271-306, 1986

12) Brunsting LA, Dyke CM, Salter DR, Murphy CE, Abd-Elfattah AS and Wechsler AS: Preload Dependence of Myocardial Blood Flow in Hypertrophied and Postischemic Canine Right Ventricles. Surgical Forum 38, 241-3, 1987

13) Murphy CE, Salter DR, Morris III JJ, Goldstein JP, Wechsler AS, and Abd-Elfattah AS: Age-Related Differences in Adenine Nucleotide Metabolism During IN VIVO Global Ischemia. Surg Forum, 38, 288, 1986.

14) Dyke CM, Brunsting LA, Salter DR, Murphy CE, Abd-Elfattah AS, and Wechsler AS.: Preload Dependence of Right Ventricular Blood Flow: I. The Normal Right Ventricle. Ann Thorac Surg 43 (5):478-483, 1987

15) Salter DR, Goldstein JP, Abd-Elfattah AS, Murphy CE, Brunsting LA, and Wechsler AS.: Ventricular Function After Atrial Cardioplegia. Circulation Nov; 76 (5 Pt 2): V129-40, 1987

16) Brunsting LA, Salter DR, Goldstein JP, Murphy CE, Abd-Elfattah AS and Wechsler AS: Ventricular Interaction During Right Ventricular Assist. Transactions of the American Society of Artificial Internal Organs. (ASAIO), Jul-Sep; 33 (3) :162-168, 1987

17) Morris JJ, Pellom GL, Murphy CE, Salter DR, Goldstein JP and Wechsler AS: Quantification of the Contractile Response to Injury: Assessment of the Work-Length Relationship in the Intact Heart. Circulation 76(3): 717-27, 1987

18) Brunsting LA, Salter DR, Murphy CE, Abd-Elfattah AS, Goldstein JP and Wechsler AS.: The Importance of Load-Independent Analysis in Assessment of the Inotropic Effect of Prostaglandin E1 In-vivo. Journal of Thoracic and Cardiovascular Surgery, 95: (3) 432-34, 1988

19) Burns RJ, Gladstone P, Tremblay P, Feindel CM, Salter DR, Lipton IH and David TE: Myocardial infarction determined by Technetium - 99m pyrophosphate single photon tomography complicating elective coronary artery bypass grafting for angina pectoris. Am. J. Cardiol, June 15, 63(20)1429-34, 1989.

20) Swanson E, Salter DR, and Freiberg A: Radial Artery Infections and Aneurysms After Catheterization. J.Hand Surg: 15(1) 166-171 Jan 1990.

21) Naylor C D, Baigrie RS, Goldman BS, Basinski A, Revascularization Panel (Salter DR et al), Consensus Methods Group. Assessment of priority for coronary revascularization procedures. Revascularization panel and consensus methods group. Lancet 335: 1070-73, 1990

Curriculum Vitae David R. Salter, M.D.

- 22) Naylor CD, Baigrie RS, Goldman BS, Cairns JA, Beanlands DS, Berman N, Borts D, Fitchett DH, Haq A, Hess A, Hughes W, Swan J, Tinmouth A, Gunstensen J, Lichtenstein SV, Salter D, Weisel RD, Anderson GM, Basinski A and Lomas J: Assigning Priority to Patients Requiring Coronary Revascularization: Consensus Principles from a Panel of Cardiologists and Cardiac Surgeons. *Can J Cardiol* 7 (5), 207- 213, 1991
- 23) Dyke CM, Yeh T, Lehman J, Dignan R, Ding M, Abd-Elfattah A, Wechsler A, and Salter DR: Triiodothyronine (T3) Enhanced Left Ventricular Performance After Ischemic Injury. *Ann Thorac Surg*, 52 (1):14-19, 1991
- 24) See YP, Weisel RD, Mickle DAG, Teoh KH, Wilson GJ, Tumiati LC, Mohabeer MK, Madonik MM, Axford-Gatley RA and Salter DR: Prolonged Hypothermic Cardiac Storage for Transplantation: The Effects on Myocardial Metabolism and Mitochondrial Function. *J Thorac Cardiovasc Surg* 104:817-24, 1992
- 25) Rubin DC, Carliner NH, Salter, Plotnick CD and Hawke MW: Unruptured sinus of Valsalva aneurysm diagnosed by transesophageal echocardiography. *Am Heart J* 124(1):225-7 1992
- 26) McGuire H.H, Horsley S, Salter D.R. and Sobel M: Measuring and Managing Quality of Surgery: Statistical vs Incidental Approaches. *Arch Surg*, 127 (3):733-737; discussion 738,1992
- 27) Salter DR, Dyke CM and Wechsler AS: Triiodothyronine (T3) and Cardiovascular Therapeutics: a review. *J Card Surg* 7(4):363-74, 1992
- 28) Dyke CM, Ding Mai, Abd-Elfattah, Loesser K, Dignan RJ, Wechsler AS and Salter DR: Effects of Triiodothyronine Supplementation after Myocardial Ischemia. *Ann Thorac Surg* 56:215-22, 1993
- 29) Bajaj S, Crandall C, Disciascio G, Tatum J, El Lahham S, Ibrahim H, Guerraty A, Vetovec G, Salter D, Mohanty PK. Collateral Circulation in the Transplanted Heart. *Circulation* 88(Pt 2):II263-9, 1993
- 30) Akosah K, Kirchberg D, Funai JT, Salter DR, Guerraty A and Mohanty PK. Dobutamine Stress Echocardiography in Heart Transplant Recipients: Does it Offer Prognostic Information? *The Journal of Heart and Lung Transplantation* 13:S48, 1994
- 31) Katta S, Akosah K, Stambler B, Salter D, Guerraty A and Mohanty P: Atrioventricular Fistula: An Unusual Complication of Endomyocardial Biopsy in a Heart Transplant Recipient. *J Am Soc Echocardiogr* 7:405-9, 1994

Curriculum Vitae David R. Salter, M.D.

- 32) Hanrahan, J.S., Ibrahim H., Tolman D., Kirchberg D., Salter D., Guerraty A. and Mohanty P.K.: Relative Clinical Impact of Cyclosporine vs Steroid Induction Therapy on Renal Function and Allograft Rejection in Heart Transplant Recipients. *Transplantation Proceedings* 28: (4), 2107-2108, 1996
- 33) Akosah K.O., Olsovsky M., Kirchberg D., Salter D.R. and Mohanty P.K.: Dobutamine Stress Echocardiography Predicts Cardiac Events in Heart Transplant Patients. *Circulation* 1996 Nov 1; 94(9 Suppl) II 283- II 288
- 34) Topaz O, Salter DR, Janin Y and Vetrovec G: Emergency Bypass Surgery for Failed Coronary Interventions. *Cathet Cardiovasc Diagn* 40(1):55-65, 1997
- 35) Dyke C M, Yeh Jr. T, Lehman J.D., Abd-Elfattah A., Ding M., Wechsler A.S. and Salter D.R. As Originally Published in 1991: Triiodothyronine-enhanced left ventricular function after ischemic injury. Updated 1998. *Ann Thorac Surg.* 1998 Oct;66 (4): 1450
- 36) Mahgoub M.A., Guo J., Gao S., Taher M., Salter D.R., Wechsler A.S. and Abd-Elfattah: Hyperdynamic Circulation of Arteriovenous Fistula Preconditions the Heart and Limits Infarct Size. *Ann of Thorac Surg* 1999 68 (1): 22

12.2 Abstracts

- 37) Vanderlinden RG, Salter DR, and Peacock W: Articular Facet Rhizotomy by Percutaneous Electrocoagulation. *Canadian Journal of Neurological Science* 5: 349 1978.
- 38) Wechsler AS, Morris III JJ, Murphy CE, Salter DR, Pellom GL, and Goldstein JP: Effect of Left Ventricular Pump Assist on the Right Ventricle with Varying Levels of Dysfunction. *Proceedings of the International Symposium "The Right Heart" Phoenix Arizona 1985.*
- 39) Abd-Elfattah AS, Murphy CE, Salter DR, Goldstein JP, Morris III JJ, and Wechsler AS: Biochemical Bases for Tolerance of the Newborn Heart to Ischemic Injury. Developmental Differences in adenine myocardium. A possible role of 5` nucleotidase. *Proceedings of the International Symposium on Myocardial Protection. Boston Mass., 1985.*
- 40) Goldstein JP, Salter DR, Abd-Elfattah AS, Murphy CE, Morris III JJ, and Wechsler AS: Efficacy of Coronary Sinus Cardioplegia Without Topical Hypothermia During Two Hours of Cardiac Arrest. *Proceedings of the International Symposium on Myocardial Protection. Boston Mass. 1985.*
- 41) Salter DR, Goldstein JP, Abd-Elfattah AS, Murphy CE, Morris III JJ, and Wechsler AS: The Efficacy of Coronary Sinus Cardioplegia to Protect the Right Ventricle During Global Ischemia. 54th

Curriculum Vitae David R. Salter, M.D.

Annual Meeting of the Royal College of Physicians and Surgeons of Canada. Vancouver, B.C. Canada, September 13th 1985. Clinical and Investigative Medicine. 8:ASI-R74, 1985.

42) Goldstein JP, Salter DR, Murphy CE, Abd-Elfattah AS, Morris III JJ, and Wechsler AS The Efficacy of Blood versus Crystalloid Cardioplegia During Global Myocardial Ischemia. Circulation 72 (part II), III - 395, 1985.

43) Salter DR, Goldstein JP, Murphy CE, Pellom GL, Morris III JJ, and Wechsler AS: Left Ventricular Function Following Mitral Valve Replacement With and Without Papillary-Annular Attachment. Circulation 72 (part II), III - 211, 1985.

44) Abd-Elfattah AS, Murphy CE, Salter DR, Goldstein JP, Godwin CK, and Wechsler AS: Age and Species Related Differences in Adenine Nucleotide Degradation During Myocardial Global Ischemia. Fed Proc 45: 1039, 1986.

45) Murphy CE, Salter DR, Goldstein JP, Brunsting LA, Wechsler AS, and Abd-Elfattah AS: Adenine Nucleotide Metabolism During Global Ischemia in Lambs and Sheep. Circulation Supplement Part II Vol. 74, No. 4 Oct/86.

46) Abd-Elfattah AS, Murphy CE, Salter DR, Brunsting LA, Goldstein JP, and Wechsler AS: Developmental Role of Myocardial 5' Nucleotidase and AMP Deaminase Isoenzymes in the Increased Tolerance of Immature Hearts to Ischemic Injury. Circulation Supplement Part II, Vol. 74. No. 4 Oct/86.

47) Salter DR, Goldstein JP, Murphy CE, Abd-Elfattah AS, Brunsting LA, and Wechsler AS: Atrial vs Coronary Sinus Cardioplegia. Circulation Supplement Part II, Vol. 74. No. 4 Oct/86.

48) Tucker SL, Brunsting LA, Abd-Elfattah AS, Murphy CE, Salter DR, Wechsler AS: Orotic Acid Stimulates Myocardial Protein Synthesis Following Regional Ischemia. Circulation Supplement Part II, Vol 74, No. 4. Oct/86.

49) Murphy CE, Salter DR, Morris JJ, Goldstein JP, Brunsting LA, and Wechsler AS: Pressure-Dimension Analysis of Right Ventricular Function During Cardiac Surgery. Circulation Supplement Part II, Vol 74 No. 4 Oct/86.

50) Abd-Elfattah AS, Sheffield C, Forsberg DA, Murphy CE, Salter DR, and Wechsler AS: Myocardial Protection with Bromo-Adenosine Monophosphate (BR-AMP) During Global Ischemia and Reperfusion. A Novel inhibitor of 5' Nucleotidase in Cardiomyocytes. Circulation Supplement Part II, Vol. 74 No. 4 Oct/86.

Curriculum Vitae David R. Salter, M.D.

- 51) Burns RJ, Trembley PC, Caterini C, Gladstone JP, Salter DR, Lipton IH, David TE, Feindel CM: Incidence and Correlates of Myocardial Technetium Pyrophosphate Uptake Using Spect After Elective Coronary Bypass. Society of Nuclear Medicine, January 8, 1987.
- 52) Brunsting LA, Salter DR, Goldstein JP, Murphy CE, Abd-Elfattah AS and Wechsler AS: Ventricular Interaction During Right Ventricular Assist. ASAIO May, New York, 16:3, 1987
- 53) Burns RJ, Gladstone PSJ, Tremblay PC, Salter DR, Lipton IH, David TE and Feindel CM: Irreversible Myocardial Injury Complicating Elective Coronary Bypass: Incidence, Correlates and Significance. Clinical and Investigative Medicine, Suppl C, 10 (183):C74, 1987
- 54) Brûlé M, Salter DR, David TE, Glynn FX, Feindel CM and Lipton IH: Autotransfusion after Cardiac Surgery (a randomized prospective analysis of 100 patients). Clinical and Investigative Medicine 12:5; C82 1989
- 55) Salter DR, Murphy CE, Brunsting LA, Pellom GL, Goldstein JP, and Wechsler AS: Mitral Valve Replacement in the Failing Ventricle. Supplement II Circulation Vol 80, No 4. October 1989, page II-424 Abstract # 1686
- 56) Chung F, Seyone C, Cheng DCH, Sullivan D, Dorian P, Salter D and Pollick C Premedication and metoprolol :A transesophageal echocardiographic study: Canadian Journal of Anaesthesia, 36:3 (Pt II) S162, 1989
- 57) Hanrahan JS, Taylor DO, Mohanty PK, Szentpetery S, Guerraty A and Salter DR: Should Prior Substance Abuse be a Contraindication for Cardiac Transplantation? (Presented at the National Society of Heart Transplantation Paris Spring 1991) J Heart and Lung Transplantation Jan-Feb 10:(1 Pt 2), 158, 1991
- 58) Salter DR and Clarke AS. Coronary Bypass Surgery (CABG) Without Cardiopulmonary Support. Va Med Q 119: 180, 1992
- 59) Bajaj S, Crandall C, Ibrahim H, Vetovec, DiSciascio G, Ellaham S, Salter D, Guerraty A, Mohanty PK: Clinical Significance of Coronary Collateral Circulation in Cardiac Transplant Recipients. Circulation 86(4): I-35, 1992
- 60) Salter DR, Hanrahan J, Crandall C.W., McGuire H.H., Mohanty P.K. and Guerraty A. Cholelithiasis after Cardiac Transplantation. Va Med Q 120: 154, 1993
- 61) Shah A, Crandall C.W., Bajaj S, Salter D.R., Guerraty A, Ibrahim H and Mohanty P.K. Influence of Coronary Collaterals on Left Ventricular Systolic Function in Cardiac Transplant Recipients. Clin Res 41: 20 A, 1993

Curriculum Vitae David R. Salter, M.D.

- 62) Akosah K, Mohanty PK, Funai JT, Jesse RL, Minisi AJ, Crandall CW, Kirchberg D, Guerraty A, Salter D. Noninvasive Detection of Transplant Coronary Artery Disease by Dobutamine Stress. *J of Heart and Lung Transplant* 13: 1024-38, 1994
- 63) Olsovsky M, Akosah K, Funai J, Salter D and Mohanty P: Clinical Significance of Angina in Denervated Cardiac Transplant Patients. *VA Med Q* 121:1 45 1994
- 64) Denlinger B, Akosah K, Funai J, Salter D and Mohanty P: Use of Dobutamine Stress Echocardiography as Screening for Transplant Coronary Artery Disease. *VA Med Q* 121:1 46 1994
- 65) Holdaway BK, Akosah KO, Kontos MC, Minisi AJ, Salter D, Funai JT, Mohanty PK: Dobutamine Stress Echocardiography: A Reasonable Alternate Non-invasive Test Coronary Bypass Graft Stenosis. *Chest* 108(3): 160S, 1995
- 66) Dattilo JB, Dattilo MPM, Spratt JA, Yager DR, Matsuura J, Salter DR and Makhoul R: Differential Expression of the Inducible Nitric Oxide Synthase (iNOS) Gene in Human Vein Grafts *Surgical Forum XLVII*, 387-389, 1996
- 67) Abd-Elfattah, Salter et al Effects of Chronic Hyperdynamic Circulation Induced by Arteriovenous Fistula on Vascular Reactivity of Conduits Commonly Used in Coronary Artery Bypass Grafting, Submitted to *Surgical Forum XLVIII* March 1997
- 68) David Salter, Jennifer Deschenes, Jennifer Wechsler, Kathy Kreutzer, Paul Mazmanian The Influences of M-III Transition on Study Habits (American Association of Medical Colleges New Orleans Oct 29th – Nov5th 1998)
- 69) L.B. Mohanty, B.K. Holdaway, K.O. Akosah, D. R. Salter, D. Brands and P.K. Mohanty, The Role of Transmyocardial Biopsy in Predicting Myocardial Viability. American Society of Pathology Meeting , Nice, France, 1998
- 70) A.S. Abd-Elfattah, A. El-Watidy, M Taher, I. A. Mabrouk, Hegab, A. Mohamed, David R. Salter Digitalis provides an Early, but not late Window of Preconditioning in Rat Model of Acute MI *J. Mol Cell Cardiology* 2000 (presented at the International Society of Heart Research Conference Louisville Kentucky, June 2000)
- 71) Salter D.R. and Stone C.S. Digital Office Correspondence (D.O.C.S.) for M-3 Students (A way to bring Problem-Based Patients to Life). accepted for the Fall AAMC Meeting Washington DC -abstract

Curriculum Vitae David R. Salter, M.D.

12.3 Books, Chapters and Requested Publications

- 72) Salter DR and Wechsler AS: Intraoperative Evaluation of Myocardial Protection. - Proceedings of the International Symposium on Myocardial Protection. Title: Myocardial Protection in Cardiac Surgery Ed: A.J. Roberts M.D. 1986. Wechsler AS, Salter DR, Murphy CE, Brunsting LA, Goldstein JP, and Abd-Elfattah A
- 73) Metabolic Differences Between Retrograde and Antegrade Cardioplegia. Chapter - Coronary Sinus. Proceedings of the 2nd International Symposium on Myocardial Protection. Ed: Mohl and Werner. 1986.
- 74) Salter DR and Wechsler AS: Apicoaortic Conduits for Complex Left Ventricular Outflow Obstruction: 10 Year Experience. Editorial - Ann of Thorac Surg. 42: 607, 1986.
- 75) Salter DR: Expanding Application of Coronary Angioplasty. Challenges in Cardiovascular Medicine. Spring, 1:11-14, 1988
- 76) Foster AH and Salter DR: Pathophysiologic Considerations in Patients With Coexisting Coronary and Carotid Disease Advances in Cardiac Surgery Vol 2 - Mosby Year Book, 203-225, Karp, Laks and Wechsler eds. 1990
- 77) Salter DR and Dyke CM: Cardiopulmonary Dysfunction after Brain Death: Anesthesia for Organ Transplantation. 81-94, J.B. Lippincott Co., J.A. Fabian Ed 1992
- 78) Salter DR: Acquired Valvular Heart Disease: Current Practice of Surgery IX Cardiac Surgery: Eds Levine Sugerman et al. Churchill Livingstone 1993
- 79) Abd-Elfattah A.S., Salter D.R. and Wechsler A.S.: Purine Metabolism in the Ischemic Canine and Human Immature Myocardium Deficient of 5'-Nucleotidase: in Purines and Myocardial Protection: Eds Abd-Elfattah A.S. and Wechsler A.S. Kluwer Academic Publishers. 1996
- 80) Harvard Office of Educational Development Newsletter requested article introducing the Richmond Colloquium at the VCU School of Medicine - published October 1999
- 81) Harvard Office of Educational Development Newsletter requested article reviewing and analyzing the Richmond Colloquium (March 2000) and outlining the development of the International Virtual Academy of Medical Education Scholars (IVAMES) - October 2000
- 82) Associate Editor - *Project 2000* - RB Young Editor - a 4-year chronicle of the graduating class of 2000 at the Medical College of Virginia

12.4 Recent Abstracts - presented, submitted and work in progress:

Curriculum Vitae David R. Salter, M.D.

Abd-Elfattah, Salter et al Is it Possible to Ischemically Precondition the Infarcted Heart? The role of preconditioning reserve.

Topaz O. Katta S, Salter D, Titus JL Giant Aneurysms of coronary arteries and saphenous vein grafts: angiographic and histopathologic findings. Submitted for publication

Salter, et al. Understanding Barriers to the Implementation of Web-Enhanced Medical Education The Richmond Colloquium March 11th 2000

Hoban, Salter et al Teaching to the Bottom of the Class

Proceedings - Richmond Colloquium A Template to Establish a Virtual Academy of Medical Education Scholars A Textbook in transcription

"The Biologic Nature of Change in Academic Medical Centers - An Education Ecology"

Salter and Mazmanian - editorial

"A Gathering of Scholars" - Reflections on the uniqueness of the Richmond Colloquium

A Review of the process to create the Richmond Colloquium and its implications for medical education scholarship - requested submission to "Medical Education ..." Mazmanian

The Surgical Management of Congenital Mitral Valve Disease - in preparation for e-medicine (digital publishing) Due March 2001

Digital Office Correspondence (DOCs) for M-3 Students (A way to bring Problem-Based Patients to Life) - Abstract for Spring AAMC Submission

Paperless Planning in Continuing Medical Education - Abstract for Spring AAMC submission

The Why of What - (WOW) - Integrating Physiology and the Clinical Years in Medical School - Abstract for Spring AAMC submission

Reconciling Public Internet Mediated Medicine with Traditional Medical Education

David R. Salter and Carolyn Stone for submission to the RIME - AAMC March 2002

Ischemic Preconditioning of the Infarcted Hearts: Role of ATP-Sensitive Potassium Channels

Anwar S. Abd-Elfattah, Ahmed F. El-Watidy, Ibrahim Hegab, David R. Salter, Ali Mohamed (submitted to the Asheville Cardiac Metabolism Meeting June 2002)

Curriculum Vitae David R. Salter, M.D.

Utility of CMA Microdialysis System in Measuring Interstitial and Plasma Levels of Glutamate, Adenosine, Glucose, Lactate, Pyruvate in a Rabbit Model of an Acute MI, in vivo
Anwar S. Abd-Elfattah, Mike Fraykor, Oscar L. Alves, Ross C. Bullock, David R. Salter.
(submitted to the Asheville Cardiac Metabolism Meeting June 2002)

12.5 Web Sites:

<http://www.wcb.vcu.edu/wcb/schools/MED/srg/dsalter/2/index/html>
<http://www.vcu.edu/hmc2000>

Web site in development <http://www.cloister-scholars.org>

12.6 Other - reviews, exhibits, films, tapes etc

- 1985 Program Chairman - Perfusionist Refresher Course (Inaugural)
Toronto Institute of Medical Technology
- 1984 Directed preoperative cardiovascular surgical teaching
video for cardiac surgery patients.
(Subsidized by KNOLL OF CANADA)
- 1994 Patient Education Booklet
Introduction to Cardiac Surgery at the Richmond VA Medical Center
- 2002 Teaching "Internet-Mediated Medicine" to M-3 Students (Workshop)
Association for Surgical Education (ASE)
David Salter MD, Carolyn Stone BS (Virginia Commonwealth University, Medical
College of Virginia Campus) and Charles Baird MD (Virginia Heart Institute)
Baltimore MD April 2nd - 4th 2002
- 2002 Established the Cloistered Learning Organization of International Scholars Teachers Educators
and Researchers (CLOISTER) in collaboration with the Harvard-Macy
International organization <http://www.cloister-scholars.org> and <http://www.cloister-scholars.ws>
- 2002 Mayo Clinic Colloquium (Follow up of the Richmond Colloquium March 2000) Rochester in
Association with Dr. Tom Viggiano Associate Dean, Mayo Medical School and Dr. Anthony
Windebank Dean, Mayo Medical School and Dr. Liz Armstrong , Director of Harvard Macy

Curriculum Vitae David R. Salter, M.D.

International, Harvard Medical School

2002 Queens College @ Belfast Ireland and Geneva- planning committee for the 3rd Harvard
Macy Colloquium in association with Dr. Kieran McGlade 2004

Curriculum Vitae David R. Salter, M.D.

Whitby Award in Clinical Teaching Annual Teaching Awards Program October 4th 1999

As associate Professor of Surgery and Director of Clinical Curriculum at the VCU School of Medicine, Dr. David Salter is involved in the full array of teaching venues; lecture hall, small groups, bedside and of course, the operating room. In each of these settings he is consistently applauded by students for his ability to make the material come to life, his ability to inspire and for his dedication to teaching medicine for the 21st century.

Since his appointment to VCU in 1989, Dr. Salter has developed a reputation for caring deeply about his students, motivating them to set high standards for themselves, not with rhetoric but by his own example of dedication and hard work. He takes pride in treating students as colleagues, which is his own way of raising the expectations he has for them.

Salter is regarded as a scholar and an intellectual who repeatedly demonstrates to students that medicine is science, pushing them to investigate questions beyond the textbook level, beyond the "easy answers". Perhaps most importantly is his belief that dogma is always suspect; his openness provides a critical counterpoint to negative role models who give the appearance of "knowing it all." Students and colleagues are endeared by his easy-going manner and excellent sense of humor, all of which makes him easily approachable.

Dr. Salter is constantly searching for new ways to teach and is particularly attuned to the significant role that computer technology plays in gathering and sharing medical information. He has implemented the first web-based course in the clinical curriculum as well as problem-based teaching.

If the recognition he has received for his work is any indication, he is clearly taking his studies in the right direction. Superior ratings from students are seconded by the formal recognition he has received from them with nominations for "Best Attending of the Year" (M-94 and M-99 classes) and the "Golden Apple Award" (M-99 class). Among his many other distinctions, Salter was selected as a 1997 Harvard-Macy Scholar, the first for a School of Medicine faculty member.

In addition to Dr. Salter's many awards and contributions to clinical teaching, he is a leader, an innovator and a pioneer in medical education both at MCV and on the national front. He is Director of Surgical Education and Director of the entire M-III curriculum at VCU, immense responsibilities both, considering that at the same time Interim Chair of Cardiothoracic Surgery. Dr. Linda Constanzo, Professor of Physiology calls David Salter, "a clinical teacher and role model without peer, and is a leader of teaching among faculty."

A common thread through all of these achievements is his unwillingness to accept the status quo. Dr. Salter is a strong proponent of such sentiments as, "If it is stale, make it fresh; if its time has past, make it new; and no matter how good it is, make it better." Assuredly, he is applying this wisdom each day here at MCV of VCU.

Curriculum Vitae David R. Salter, M.D.

PROJECTS AND EDUCATIONAL ACTIVITIES

1) Personal Activities

- A) Accepted for the Harvard Medical School *Leadership in Medicine* course
(Boston, June 14th - 19th 1998)

Issues selected to study during the course

- ? Reconstructing and redefining Academic Medical Centers of the 21st Century
- ? Reconnecting the Academic Medical Center with its community constituents
- ? Defining a Rewards System for Academic Effort

- B) “*Richmond Colloquium 2000* “ (Course organizer and originator)
Colloquium of Harvard-Macy Scholars and Leaders in Medicine course participants
Richmond, April 30th and May 1st 1999 (estimated 50 – 70 participants)

The Office of VCU School of Medicine CME – Paul Mazmanian

The Office of Medical Education Harvard Medical School – Liz Armstrong, Nancy Bennett and Bob Keegan

Preliminary focus:

- ? Defining the future of the academic medical center
- ? Mid-career development issues for physician educators
- ? Effecting research in medical education
- ? The role of the office of medical education in the change process
- ? Sustaining the Harvard-Macy mission *after Harvard*

- C) Dewey @ Digital (October 14th 2000)
"Is technology Overwhelming the Principles of Education"

Objectives:

- ? To better understand the role of the principles of education in guiding the use of technology in education
- ? To become aware of opportunities to enhance teaching through technology and thereby achieve personal goals as educators
- ? To create an awareness of colleagues' work in medical education at the VCU School of Medicine and develop links that will enhance collaboration with others
- ? To create a community of Medical Education Scholars who will connect

Curriculum Vitae David R. Salter, M.D.

periodically, to share triumphs, solutions to difficult problems and seek assistance with grant proposals, abstracts and curricular innovations.

- ? A continuing discussion with Medical Education Scholars identified through this forum has the potential to greatly enhance the following, in the VCS School of Medicine
 - a) Research in Medical Education
 - b) Technology in Medical Education
 - c) Basic Principles of Education

D) John F. Kennedy School of Government and Politics - Harvard University

New Skills for 21st Century Healthcare November 11th - 19th 2000

E) *Surgery Education Committee*

- ? Revitalize Surgery *Graduate and Fellowship Education*
- ? Integrate departmental educational energies

F) IDC Winter Institute Program (Jan 9th - 11th 2001) to study:

- ? Dream Weaver
- ? Principles of Distance Education
- ? Multimedia in PowerPoint presentations

G) Expanded Dewey @ Digital (Phase II) "Dewey or Don't We?" - in planning

2. Clerkship projects initiated

Harvard-Macy Scholar 1997 Personal Project (the electronic curriculum)

(Developing the first VCU School of Medicine Web based curriculum – core competencies, curriculum, examinations and problem based tutorials)

Clinical (M-III) Internet Assignment (surgery rotation #1 1997)

(Towards an understanding and evaluation of net-based information)

Curriculum Vitae David R. Salter, M.D.

Basic Information Technology for Students (B.I.T.S.) Project
(Weaving information technology knowledge into the M-III Curriculum)

Teaching to the Bottom of the Class (applications of business principles & performance)

Teaching Surgery Residents to Teach M-III Students Program

Implementation of a ***Computerized Student Evaluation and Grading System*** (TDA Inc)

Standardization of grading and evaluation in the clinical curriculum
(Salter and Brannen)

The Learning Project - Studying the effect of the transition from MI &II to MIII on studying patterns (Salter, Deschenes, J Wechsler, Kreutzer and Mazmanian)

Student “log book” Project (competency encounters) (Salter, Campbell and Peel)

Personal Profile Portfolio – creating individual objectives in M-III using personality evaluation and other tools (Salter and Weber)

Integrating Basic Science and Clinical Material in Surgery Problem Based Learning
(Salter and Costanzo)

Project Medical Education - model program is designed to create a more accurate knowledge base among members of Congress and their staff, thus empowering them to make insightful decisions about future funding sources for medical education. April 2000

D.O.C.S. - Digital Office Correspondence for M-3 Students - A way to bring problem-based patients to life in real time.

3. Support of other faculty member projects

VCU Honors Pre-admission Student Mentoring Program with VCU School of Medicine M-III Students (Roth ,Chandler and Salter)

Integrating Managed Care Concepts into the VCU School of Medicine Curriculum
(Undergraduate Medical Education in the 21st Century) (Marsland, Perlin, Peel and Salter)

Integrating ER Medicine into the M-III Surgery Clerkship (Klinker and Salter)

Pediatric Clerkship Teaching Innovations using Front Page - Dr. Meloy

Application for Harvard Macy Physician Educators Program - Dr. Gina Justis

Curriculum Vitae David R. Salter, M.D.

4. Community Projects

Reconfiguring the Virginia Heart Institute through Faculty at the Harvard Business School and the Harvard Medical school to create a 21st Century Model of Cardiac Care in the Community.

5. University Projects.

Educators' Technology Consortium proposal - "ETC"
(Innovators in Education at VCU through the IDC)

Curriculum Vitae David R. Salter, M.D.

PERSONAL STATEMENT - graduate school application

I am an academic surgeon whose path has guided me through three countries and teaching encounters with medical students at five universities (University of Toronto, Dalhousie University, Auckland University N.Z., Duke University NC. and VCU VA). My career began at age 25, as a Family Doctor in Cape Breton Island, Nova Scotia after completing a rotating internship at the University of Toronto. I was a faculty cardiac surgeon at the University of Toronto at 33 and subsequently did 2 years of basic cardiac surgical research at Duke University. In 1989, I was recruited by the Chairman of the Department of Surgery and became the Chief of Cardiothoracic Surgery at the VA for eight years and an Associate professor of Surgery at MCV.

I have been closely involved with the medical school curriculum for the past 5 years. It has been through this work that my interest in the Executive Masters program was kindled. Medical education has fascinated me since I first served on the Intern Educational Committee in 1975. As one can see in my resume, over the past 5 years I have accelerated my academic energies by studying the principles of medical education through the Harvard Macy programs and most recently, the program at the JFK School of Politics and Government - "New Skills for 21st Century Healthcare". I had originally considered pursuing a degree in medical education. However, as I delved deeper into the process of change that is enveloping academic medical centers I have come to believe that the key to the future of academic medical centers lies in a sound understanding of the principles of business and finance. I have recently gained an enormous respect for educators of the beginning of the last century (Whitehead, Dewey and Arnold) as well as educational processes of the Middle Ages in abbeys and cloisters. This is a sharp contrast with my love of technology, yet the two are connected increasingly these days as loosely structured digital companies vanish and organizations search for deeper-rooted principles.

My degrees, honors and memberships are outlined in my resume and my publications are documented in my Curriculum Vitae.

I am really pleased to have the full support of the Deans of the School of Medicine for me to pursue the Executive Masters program. I believe that this program will help me enormously in my future roles at the VCU School of Medicine as it struggles through the enormous changes it (along with every other medical school in the country) faces. It will elegantly complement the work that I have done in preparation for this step

In 1998 the entire division of cardiac surgery left MCV and I remained alone. This was a busy and difficult period, however, the division has now become repopulated with surgeons and I once again have sufficient time to follow scholarly activities. The timing of enrolling in VCU graduate school to attain a M.S.H.A. degree is excellent. I view this opportunity as a wonderful chance to interact with like-minded scholars who are similarly enthralled with the nature of the changing academic medical enterprise. I have always read widely and maintained a healthy curiosity about the nature of business. I look forward to working hard and learning much.