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HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

Curriculum Vitae

HARLAN CABOT AMSTUTZ, M.D.

PRESENT POSITION

2008-Present Founding Director, Joint Replacement Institute at St. Vincent Medical Center
1991-Present Professor Emeritus of Orthopaedic Surgery, UCLA

PAST ACADEMIC APPOINTMENTS

2007-2008 Medical Director, Joint Replacement Institute at St. Vincent Medical Center
1991-2007 Medical Director, Joint Replacement Institute at Orthopaedic Hospital
1970-1989 Professor and Chief, Division of Orthopaedic Surgery, UCLA
1970-1991 Professor and Chief, Joint Replacement Section, UCLA
1975-1989 Chief of Section of Orthopaedic Surgery, V.A. Wadsworth Medical Center
1984-1989 Physician/Consultant, Orthopaedic Surgery, V.A. Sepulveda Medical Center
1964-1970 Assistant Professor of Orthopaedics, Cornell Medical College, New York
1968-1970 Director of Bioengineering, The Hospital for Special Surgery, New York
1967-1970 Lecturer in Bioengineering, Polytechnic Institute of Brooklyn
1964-1970 Associate Scientist, The Hospital for Special Surgery, New York
1965-1970 Chief of Prosthetics & Orthotics, The Hospital for Special Surgery, New York

EDUCATION

1953 Bachelor of Arts (Phi Beta Kappa)
University of California, Los Angeles
1956 Doctor of Medicine
University of California, Los Angeles

POSTGRADUATE TRAINING

1956-1957 Rotating Internship, L.A. County General Hospital
1957-1958 Surgical Residency, UCLA Medical Center
1958-1961 Orthopedic Residency, The Hospital for Special Surgery, New York, New York
1963-1964 Honorary Registrar, Royal National Orthopaedic Hospital, London, England
1963-1964 Research Assistant, Institute of Orthopedics London, England

MILITARY SERVICE

1961-1963 Captain, U.S. Air Force, Chief of Orthopaedics
Consultant, Hospital for 862nd SAC Division, Area Veterans and local Indian
Reservations (Minot, N. Dakota)

PRESENT HOSPITAL APPOINTMENTS

2006- Attending Physician, St. Vincent Medical Center
2005- Attending Physician, Good Samaritan Hospital
1991-2006 Attending, Orthopaedic Hospital
1970-1991 Attending Physician, Department of Orthopaedic Surgery, UCLA Center for the
Health Sciences

PROFESSIONAL CERTIFICATIONS AND LICENSURES

HARLAN CABOT AMSTUTZ, M.D.

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1957	State of California
1964	State of New York
1966	American Board of Orthopedic Surgeons
1967	American College of Surgeons, Fellow

HONORS/AWARDS

1970	Chairman of Gordon Research Conference on the Science and Technology of Biomaterials
1970	ABC Traveling Fellowship
1973	President, Orthopaedic Research Society
1974	NIH Scientific Exchange Traveling Fellow to Russia
1976	UCLA School of Medicine Alumni Professional Achievement Award
1977	John Charnley Award, The Hip Society: THARIES Surface Replacement Arthroplasty for the Arthritic Hip - Rebirth of an Earlier Concept?
1979	President, The Hip Society
1979	UCLA Alumni Professional Achievement Award
1979	Otto Aufranc Award, The Hip Society: Viability and Cement Fixation of the Femoral Head in Canine Hip Surface Replacement
1983	President, Association of Orthopaedic Chairmen
1984	President, Association of Bone and Joint Surgeons
1984	John Charnley Award, The Hip Society: Porous Ingrowth in Canine Resurfacing Hip Arthroplasty, Analysis of Results with up to a Two-Year Follow-up
1987	Nicolas Andry Award - The Clinical Relevance of Instrumented Testing for ACL Insufficiency: Experience in the UCLA Clinical Knee Testing Apparatus - with Markolf
1990	John Charnley Award, The Hip Society, Cementless Total Joint Arthroplasty Prostheses with Titanium Alloy Articular Surfaces: A Human Retrieval Analysis
1992	President, American Orthopaedic Association
1992-	Selected by colleagues to be included in the 1992-93 edition of The Best Doctors in America
1994	John Charnley Award, The Hip Society - The Origin of Sub-Micron Polyethylene Wear
1994	Fellow, American Institute for Medical and Biological Engineering (AIMBE)
1996	Fellow, The Royal College of Surgeons of England
1997	Director's Special Citation, Center for Devices and Radiological Health
1999	Distinguished Alumnus – John Marshall High School
2000	John Charnley Award, The Hip Society – Wear is a function of use, not time
2000-2002	President, International Hip Society
2005	Seddon Medal, London, England
2005	Honorary Member of German Orthopaedic Society
2006	John Charnley Award, The Hip Society – A Study of Implant Failure in Metal-on-Metal Surface Arthroplasties
2007	AOA-Zimmer Award for Distinguished Contribution to Orthopaedics

LECTURESHIPS/VISITING PROFESSORSHIPS

1969	Visiting Professor, University of Vermont
1973	Visiting Professor, University of Arkansas
1974	Visiting Professor, Mayo Clinic Medical School
1974	Visiting Professor, University of California, San Diego
1976	Visiting Professor, Harvard University
1977	Visiting Professor, McGill University and Montreal General Hospital

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1977 Otho Hudson Lectureship, State University of New York at Stony Brook
1977 Visiting Professor, University of Toronto
1978 Fremont Chandler Memorial Lecturer, Chicago
1978 Visiting Professor, University of Illinois
1979 Visiting Professor, University of Wisconsin
1979 Peter Mack Lectureship and Visiting Professor, Johns Hopkins University Medical School
1980 Aaron Brown Lecturer, Los Angeles
1980 Williams Lecturer, Visiting Professor, University of Connecticut
1980 Visiting Professor, University of Oklahoma
1980 Visiting Professor, Colombian Orthopedic Society
1980 Visiting Professor, University of Cali, Colombia
1980 Visiting Lecturer, South African Orthopedic Society
1981 Visiting Professor, Stanford University
1981 Visiting Professor, Hong Kong University
1981 Visiting Lecturer, Yokohama University
1981 Visiting Professor, Hokkaido University
1982 Visiting Professor, University of Pittsburgh
1983 Visiting Professor, University of Virginia, Charlottesville
1984 Guest Lecturer, Ohio Orthopaedic Society, Cincinnati, Ohio
1984 Visiting Professor, University of California, Davis
1984 Visiting Professor, University of Czechoslovakia
1985 Visiting Professor, University of Zagreb, Yugoslavia
1985 Visiting Professor, University of Belgrade, Yugoslavia
1985 Frank B. Patterson Visiting Professor, University of British Columbia, Canada
1985 Visiting Professor, Medical College of Virginia
1987 "Classics" Lectorship Mid America Society, May, San Diego
1987 Visiting Lecturer Irish America Orthopaedic Society, Sligo, Ireland
1989 Presidential Guest Speaker, Japanese Hip Society, Fukuoka, 1989
1989 Guest Lecturer at International Symposium on Orthopaedic Surgery in Memory of Professor Jinnaka's birth, November 25, 1989, Kyusho University
1990 Mark B. Coventry Visiting Professor of Orthopaedics, Mayo Clinic
1990 Presidential Guest Speaker, Asociacion Argentina de Ortopedia y Traumatologia, Mar del Plata, Argentina
1991 Irving Redler Memorial Lecturer, Tuoro Infirmary, New Orleans, Louisiana
1991 Guest Lecturer, New York Orthopaedic Hospital 125th Anniversary
1991 Distinguished Presidential Guest, Clinical Orthopaedic Society, St. Louis, Mo.
1991 James B. Wray Guest Lecturer, Indiana University, Indianapolis, Indiana
1992 Guest Lecturer - Univ. of Texas, Southwestern, Dallas
1992 Visiting Professor - Texas Tech University, Lubbock, Texas
1993 Visiting Professor - University of Montreal, Montreal, Canada
1994 Visiting Professor - New York Orthopaedic Hospital, New York
1994 Presidential Guest Speaker, British Orthopaedic Association
1994 Visiting Professor, Tri-Service Orthopaedic Hospital, Taiwan
1994 John Charnley Memorial Lecturer, Liverpool, England
1995 Guest Lecturer - Institute der Histomorphogischen, Munchen, Germany
1995 Guest Lecturer - Arthroplasty - State of the Art, 1995, Singapore
1996 Guest Lecturer - International Symposium at Kyushu University, Fukuoka, Japan
1996 Guest Lecturer - Philippine Orthopaedic Center, Quezon City, Philippines
1999 Jack Kapland Professor, University of Maryland, Baltimore, Maryland
2000 Guest Lecturer – American Orthopaedic Society for Sports Medicine
2000 Visiting Professor, Boston University
2001 Guest Lecturer – University of Brussels, Ghent, Rome University, University of Florence, Rizzoli Institute, Bologna, Italy

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2001	Presidential Guest Speaker – Korean Orthopaedic Association, Seoul, Korea
2002	Guest Speaker – Japanese Hip Society, Hokaido, Japan
2002	Guest Speaker – British Orthopaedic Association, Cardiff, Wales
2003	Guest Lecturer – Western Hospital, Melbourne, Australia
2003	Guest Lecturer – University of Toulouse, Chudderangueil Hospital, France
2004/2005	Guest Lecturer – Italian Hip Society, Milan, Italy
2005	Guest Lecturer- Seddon Society London, England
2005	Guest Speaker – Japanese Hip Society, Nigata, Japan
2005	Guest Speaker – Northeast Florida Association
2005	Guest Speaker – University of Florida, Jacksonville
2005	Guest Lecturer – Hip 2005, Toulouse, France
2005	Guest Lecturer – German Orthopedic Association, Berlin, Germany
2005	Guest Lecturer – Japanese Hip Society, Niigata, Japan
2006	Guest Lecturer – Biological Implications on Metal/Metal Articulations, Bristol, UK
2007	Visiting Professor – Northwestern University, Chicago, IL

ASSOCIATIONS

American Academy of Orthopedic Surgeons
Orthopaedic Research Society
New York Academy of Sciences
American Society for Testing and Materials
American College of Surgeons
American Medical Association
New York Academy of Medicine
Association of Bone and Joint Surgeons
American Rheumatism Association
Academic Orthopaedic Society
Association for the Advancement of Medical Instrumentation
The Hip Society
The International Hip Society
California Medical Association
Western Orthopaedic Association
American Orthopaedic Association
Society for Biomaterials
Mid America Society (Honorary Member)
Asociacion Argentina Ortopedia y Traumatologia (Honorary)
Association Research Circulation Osseous
American Institute for Medical and Biological Engineering (AIMBE)
American Association of Hip and Knee Surgeons (AAHKS)
National Osteonecrosis Foundation, Inc.

ASSOCIATION AND COMMITTEE SERVICE

American Academy of Orthopaedic Surgeons

1972-1973	Member, Ad Hoc Committee on Continuing Education
1970-1972	Chairman, Ad Hoc Committee on Methylmethacrylate
1971-1972	Member, Executive Committee
1969-1971	Secretary, Joint Committee on Orthopaedic Research and Education Seminars
1969-1972	Member, Committee on Nomenclature
1970-1971	Member, Committee on Interplay Engineering Biology and Medicine, National Materials Advisory Board
1973-1974	Member, Ad Hoc Committee on Chymopapain Workshops

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1972-1975 Member, Committee on Operative Room Environment and Surgical Asepsis
1973-1974 Member, Ad Hoc Advisory Committee on Medical Devices
1973-1976 Member, Advisory Committee on NIH Research
1970-1982 Member, Committee on Biomedical Engineering
1972-1976 Secretary, Committee on Biomedical Engineering
1978-1981 Chairman, Committee on Biomedical Engineering
1978-1981 Member, Committee on Continuing Education
1983-1984 Ad Hoc Committee on Affiliate Status of Organizations

American Society for Testing and Materials

1967-1970 Co-Chairman, Task Force on Ceramics
1967-1970 Member, Committee F4 on Surgical Implants
1972-1976 Member, F4 Committee on Implants
1972-1976 Member, Executive Committee

National Academy of Science-National Research Council

1968-1971 Member, Sub-Committee on Bioengineering
1969-1971 Member, Committee on Skeletal Systems

The Hip Society

1974-1975 Program Chairman
1974 Membership Chairman, Executive Committee
1975 Program Chairman, Executive Committee
1977-1980 Member, Executive Committee
1979-1980 **President**
1982-1985 Member, Committee on Nomenclature and Minimal Data Base
1987-1992 Chairman, Fellowship Committee

Orthopaedic Research Society

1969-1976 Member, Executive Committee
1970 Program Chairman
1973 **President**

Prosthetics & Orthotics

1969-1976 Member, National Academy of Science, Sub-Committee on Prosthetics and Orthotics Education
1970-1979 Member, University Council on Orthotic-Prosthetic Education

Association for Advancement of Medical Instrumentation

1974-1977 Member, Board of Directors

Food and Drug Administration

1971-1973 Chairman, Device Conference
1995-2007 AOA/AAOS/ORS/FDA/OSMA Device Forum

Western Orthopaedic Association

1967-1977 Program Chairman

International Hip Society

1977 Member, Executive Committee
1996 President Elect
1999-2002 **President**

Academic Orthopaedic Society

1979-1981 Member at Large
1979-1986 Member, Executive Committee
1981-1982 Program Chairman
1982-1983 President Elect
1983-1984 **President**
1985-1989 Chairman, VA Advisory Panel
1985-1991 Chairman, Resident Match Committee
1990-1995 Representative, Combined Task Force to Investigate Mini-Fellowships for Orthopaedists in the U.S. and Canada

The American Orthopaedic Association

1978-1979 Delegate-at-Large, Executive Committee
1980-1982 Member, North American Traveling Fellowship Committee
1982-1987 Member, Residents Conference Committee
1985-1986 Chairman, Residents Conference Committee
1987-1988 Foreign Fellowship Committee
1985-1990 Membership Committee
1989-1990 Chairman, Membership Committee
1989-1996 Executive Committee
1990-1991 2nd President Elect - will become President 1992-1993
1991-1995 Member, Committee on Planning and Development
1991-1994 Member, Finance Committee
1991-1992 President Elect
1992-1993 **President**
1993-1994 Chairman, Planning & Development
1993-1995 Member, Membership Committee
1993-1995 Chairman, Technology Transfer Ad Hoc Committee
1995-1996 Chairman, Site Committee
1995-2007 Representative to Device Forum

Association of Bone and Joint Surgeons

1974-1980 Member, Site Committee
1976-1980 Chairman, Site Committee
1978-1981 Member, Membership Committee
1980 Chairman, Membership Committee

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1982-1987 Member, Executive Committee
1982-1983 Second Vice President
1983-1984 First Vice President
1984-1985 **President**

American Board of Orthopaedic Surgeons

1982-1991 Examiner

Resident Review Committee

1983-1990 Member, Site Review Committee

National Osteonecrosis Foundation, Inc.

1996- Member, Board of Directors

Veterans Administration

1983-1990 Member, Advisory Board for Orthopaedic Surgery

UCLA COMMITTEE MEMBERSHIPS

1970-1974 Member, UCLA Asepsis Committee
1970-1978 Member, Executive Committee, Institute of Rehabilitation and Chronic Diseases
1973-1974 Chairman, UCLA Asepsis Committee
1972-1986 UCLA Faculty of Engineering
1973-1976 UCLA Hospital Cancer Advisory Committee
1972-1986 Crump Bioengineering Institute Committee
1973-1976 Crump Biomedical Engineering Search Committee
1974-1978 Ad Hoc Committee for Planning and Development of Chronic Diseases and Rehabilitation Facility for the West Medical Campus
1973-1978 Center for Rehabilitation and Chronic Diseases Advisory Committee
1973-1976 UCLA Hospital Executive Committee
1977-1978 Operating Rooms Committee
1979-1980 Shrine Hospital Planning Committee
1981-1984 Operating Room - Advisory Subcommittee on Operating Suites
1981-1987 Faculty Development Committee: School of Medicine
1981-1982 Medical Staff Committee Appointments
1981- Aesculapians - Executive Board
1983-1988 UCLA Medical School Alumni Association - Executive Committee
1970-1989 UCLA Department of Surgery Executive Committee

ORTHOPAEDIC HOSPITAL COMMITTEES

1991-2001 Orthopaedic Hospital - OR Advisory Committee
1991-2000 Orthopaedic Hospital - Research Committee
1991-2002 Orthopaedic Hospital - Education Committee

OTHER SERVICE

1971- Blalock Foundation - Board of Trustees

HARLAN CABOT AMSTUTZ, M.D.
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	1982-1984	President
	1986-1991	President
1995- 2006-	National Tropical Botanical Garden - Board of Trustees Chairman of Science and Conservation Committee	

GRANT REVIEW COMMITTEES

1972-1974	Orthopaedic Research and Ed. Foundation Grant Review
1975	U.S. Army
1976-1984	Veterans Administration
1986	NIH Special Site Visitor

EDITORIAL BOARDS

1969-1984	Journal of Biomedical Materials Research
1973-1975	Orthopaedic Review
1982- 1990	Journal of Orthopaedic Research
1983-1985	Board of Trustees, Clinical Orthopaedics and Related Research
1985-1991	Journal of Arthroplasty
1986-2001	Board of Advisors Editor, Clinical Orthopaedics and Related Research
1993-2001	Gaucher's Clinical Perspectives
1993- 2005	Hip International
1993-1999	The Knee

EDITORIAL REVIEWER

1978-	Journal of Bone and Joint Surgery (American)
1984-	Journal of Biomedical Materials Research
1985-	Journal of Arthroplasty
1990-	Journal of Orthopaedic Research
1994-	Journal of Bone and Joint Surgery (British)

PATENTS

1974	Acetabular Cup, U.S. Patent #232,004
1974	Prosthesis Holder, U.S. Patent #3,857,389
1975	Vacuum-Operated Acetabular Cup Holder and Positioner, U.S. Patent #3,859,992
1975	Femoral Hip Prosthesis, U.S. Patent #235,485
1978	Prosthesis Holder, Canadian Patent #1,028,215
1978	Vacuum-Operated Acetabular Cup Holder and Positioner, Canadian Patent #1,028,214
1978	Total Hip Articular Replacement with Internal Eccentric Shells
1981	Femoral and Acetabular Components, U.S. Patent #4,123,806: Canadian Patent #1097452
1981	UCLA Anatomical Shoulder Replacement, U.S. Patent #4261062
1987	Porous Surface Replacement of the Hip with Chamfered Cylinder Design - #768,871
1992	Collarless Femoral Hip Prosthesis, U.S. Patent #5,156,627
1999	Acetabular Cup Prosthesis Insertion and Removal Assembly and Technique - #6,063,124
2000	Durable Surface Hip Replacement Technique, U.S. Patent #6,156,069

SCIENTIFIC EXHIBITS

HARLAN CABOT AMSTUTZ, M.D.

Curriculum Vitae

- 1961 Dysgenesis of the Proximal Femur and Its Surgical Management, American Academy of Orthopaedic Surgeons Annual Meeting, Miami Beach
- 1968 Prognosis for Growth and Development of Congenital Anomalies of the Lower Limbs, American Academy of Orthopaedic Surgeons Annual Meeting, Chicago
- 1976 Stem Fractures in Total Hip Replacement, American Academy of Orthopaedic Surgeons Annual Meeting, Committee on Biomedical Engineering, New Orleans
- 1977 The Interface Problem & Prosthetic Loosening: Cause and Prevention, American Academy of Orthopaedic Surgeons Annual Meeting, Committee on Biomedical Engineering, Las Vegas
- 1980 Preoperative Evaluation of Severe Hip Deformity by CAT Scan
- 1985 A Simple Technique for Consistent Visualization of the Hip: The Grid Radiograph, American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas
- 1985 Modes of Failure of Resurfacing Hip Arthroplasty, American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas
- 1986 Relevance of *In Vivo* Testing of a Biological Ingrowth Hip Arthroplasty, AAOS, New Orleans
- 1990 History of Surface Replacement of the Hip, AAOS, New Orleans
- 1994 The Durability of Cemented Total Hip Arthroplasty in Patients Over Sixty: A Fifteen Year Survivorship Analysis, AAOS, New Orleans
- 1997 Long-Term Experience with Precision-Fit Hemi-Resurfacing for Osteonecrosis of the Hip, AAOS, San Francisco
- 2000 The Evolution and Future of Surface Arthroplasty of the Hip, AAOS, Orlando
- 2001 Early Clinical Experience with Contemporary Metal-on-Metal Total Hip Arthroplasty - A USA Multicenter Collaboration, AAOS, San Francisco, CA
- 2004 Metal-on-Metal Hybrid Surface Arthroplasty of the Hip – Clinical results and Risk Factors, AAOS, San Francisco, CA
- 2007 10 Years of Experience with Metal-on-Metal Hybrid Hip Resurfacing: A Review of 1000 Conserve[®] Plus, AAOS, San Diego, CA

MOVIES AND VIDEOS

- 1971 Total Hip Replacement - McKee-Farrar, American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco
- 1973 The Trapezoidal-28 Total Hip Joint Replacement, American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas
- 1978 Total Hip Articular Replacement with Internal Eccentric Shells, American Academy of Orthopaedic Surgeons Annual Meeting, Dallas
- 1979 Trapezoidal-28: New Techniques for Improved Durability, American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco
- 1979 THARIES - Video
- 1981 THARIES Replacement - Technique Update - Movie and Video
- 1982 DANA Shoulder Replacement - Movie and Video
- 1983 DANA Shoulder Replacement - Video
- 1989 ATH Hip Replacement - Video
- 1997 Conserve Surgical Technique – Video
- 2006 JBJS Surgical Techniques Video Supplement (September)
- 2009 AAOS Web Site Video: OKO Surgical Technique on Hip Resurfacing.

SOUND SLIDES

- 1972 Total Hip Replacement Arthroplasty, Video Cassette Industries, Los Angeles
1978 Loosening of Total Hip Replacement - Causes, Consequences, Prevention,
American Academy of Orthopaedic Surgeons Annual Meeting, Dallas
1979 Total Hip Articular Replacement with Internal Eccentric Shells: The "THARIES"
Technique for Total Hip Replacement, American Academy of Orthopaedic
Surgeons Annual Meeting, San Francisco
1980, 1981 UCLA Anatomical Shoulder Replacement American Academy of Orthopaedic
Surgeons Annual Meeting
1982, 1984 DANA Shoulder Replacement American Academy of Orthopaedic Surgeons
Annual Meeting

POSTGRADUATE COURSE WORKSHOP CHAIRMANSHIPS

- 1971 Methyl Methacrylate Regional Workshops, American Academy of Orthopaedic
Surgeons: Twenty-three nationwide workshops
1971 Total Hip Replacement, UCLA, University Extension
1976 Applied Biomechanics for Orthopaedic Surgeons, American Academy of
Orthopaedic Surgeons, Los Angeles
1977 Applied Biomechanics for Orthopaedic Surgeons, UCLA, University Extension
(UNEX)
1978 New Techniques in Total Hip Replacement, UCLA, University Extension (UNEX)
1978 Surface Replacement of the Hip: In-Depth Course and Workshop (UNEX)
1978 Summer Institute: Hip Course, American Academy of Orthopaedic Surgeons
1979 Surface Replacement of the Hip: In-Depth Course and Workshop (UNEX)
1979 New Techniques in Hip Resurfacing and Replacement: In-Depth Course and
Workshop (UNEX)
1980 Recent Advances in Hip Surgery: Osteotomy, Resurfacing, Conventional and
Revision Hip Replacement Surgery, In-Depth Course and Workshop (UNEX)
1981 New Techniques of Prevention (UNEX)
1982 Reconstructive Surgery of the Shoulder, Elbow, Hip and Knee: An In-Depth
Course and Workshop (UNEX)
1983 Reconstructive Surgery of the Shoulder, Elbow, Hip and Knee: An In-Depth
Course and Workshop (UNEX)
1985 A Cementless "Revolution" in Joint Replacement - Sept. 18-21, 1985 (UNEX)
1987 Current Strategies for Prostheses and Technique Selection: Porous/Press-
Fit/Cemented, October 7-10, 1987 (UNEX)
1988 Hip and Knee Reconstructive Surgery, October 12-14, 1988 Kauai, Hawaii,
(UNEX)
1989 Hip and Knee Reconstructive Surgery, October 11-14, 1989, Poipu Sheraton,
Kauai, Hawaii, (UNEX)
1990 Hip and Knee Reconstructive Surgery, October 11-14, 1990, Four Seasons,
Maui, Hawaii, (UNEX)
1991 Hip and Knee Reconstructive Surgery, October 9-12, 1991, Kauai, Hawaii
(UNEX)
1991 Joint Replacement in the Twenty-First Century, Dec. 7-8, 1991, Los Angeles, CA
1992 Tutorial: Revision Total Hip, AAOS, April 21, 22, 1992
1995 Technology Transfer Workshop: "Academic, Industry and Federal Interactions in
Developing and Applying New Technology in Orthopaedics". Reston, VA, May
13-16.
1995 Metal/Metal Hip Prosthesis: Past Performance and Future Directions. Santa
Monica, CA, November 3-5.

HARLAN CABOT AMSTUTZ, M.D.

Curriculum Vitae

1996 Controversies in Joint Replacement, July 25-28, Durango, Colorado
2002 The Role of Hemi and Full Surface Arthroplasty of the Hip, June 21-22, Vienna

BOOK CHAPTERS

1. Amstutz HC: Recent Advances in Orthopedic Implants. In Cooper P (ed). Surgery Annual. London, Butterworth and Co. 385-408, 1971.
2. Amstutz HC: Total Hip Replacement. In Tronzo R (ed). Surgery of the Hip Joint. Philadelphia, Lippincott 656-687, 1973.
3. McKellop H, Clarke IC, Markolf KL, et al: Polyethylene Wear in Prosthetic Joints. In Dawson D (ed). Evaluation of Artificial Joints. Pub. Biol. Eng. Soc., Chapter 10, 1977.
4. Amstutz HC: Recent Advances in Total Hip Resurfacing. In McKibbin B (ed). Recent Advances in Orthopaedics. No. 4 New York, Churchill Livingstone 155-177, 1983.
5. Amstutz HC: Surface Replacement of the Hip: The THARIES Technique and Results. In Evarts CM (ed). Surgery of the Musculoskeletal System. Vol. 3 New York, Churchill Livingstone 377-399, 1983.
6. Amstutz HC, Kim WC: Osteoarthritis of the Hip. In Moskowitz RW, Howell DS, Goldberg VM, Mankin HJ (eds). Osteoarthritis. Diagnosis and Management. Philadelphia, Saunders Company 423-442, 1984.
7. Amstutz HC, Kabo JM, Dorey FJ: Surface Replacement Arthroplasty. In Reynolds D, Freeman M (eds). Arthritis in the Young Adult. New York, London, Churchill Livingstone 251-275, 1989.
8. Amstutz HC: Surface Replacement of the Hip. In Evarts CM (ed). Surgery of the Musculoskeletal System. Ed 2 New York, Churchill Livingstone 3211-3238, 1990.
9. Amstutz HC: Assessment of the Failed Hip Replacement. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 469-472, 1991.
10. Amstutz HC: Book Review: John Charnley: The Man and The Hip. In Caellegh A (ed). Academic Medicine. Vol 6, No. 9. Association of Medical Colleges 518-519, 1991.
11. Amstutz HC: Dysplasia and Congenital Dislocation of the Hip. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 723-744, 1991.
12. Amstutz HC: Gaucher's Disease and Total Hip Arthroplasty. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 693-700, 1991.
13. Amstutz HC: Indications for Surgery: Risks and Discussion. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 89-92, 1991.
14. Amstutz HC: Surface Replacement Arthroplasty. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 295-334, 1991.
15. Amstutz HC: Surface Replacement Arthroplasty. In Petty W (ed). Total Joint Replacement. Philadelphia, WB Saunders Company 355-370, 1991.

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Curriculum Vitae

16. Amstutz HC, Campbell P, Gruen TA: Modes of Failure of Conventional Stem-Type Hip Replacements. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 473-486, 1991.
17. Amstutz HC, Campbell P, Gruen TA: Modes of Failure of Surface Replacements. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 507-534, 1991.
18. Amstutz HC, Clarke IC: Evolution of Hip Arthroplasty. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 1-14, 1991.
19. Amstutz HC, Grauer JD, Dorey FJ: Girdelstone Resection Arthroplasty. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 941-950, 1991.
20. Amstutz HC, Kabo JM: Surface Replacement Arthroplasty. In Steinberg M (ed). The Hip and Its Disorders. Philadelphia, W.B. Saunders Co. 803-822, 1991.
21. Amstutz HC, Kabo JM, King RC: Press-Fit Prostheses: Principles, Results, and Techniques. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 261-270, 1991.
22. Amstutz HC, Kody MH: Dislocation and Subluxation. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 429-448, 1991.
23. Amstutz HC, Luetzow WF, Moreland JR: Revision of Femoral Component: Cemented and Cementless. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 829-854, 1991.
24. Amstutz HC, Luetzow WF, Moreland JR: Revision of Socket Component: Cemented and Cementless. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 813-828, 1991.
25. Amstutz HC, Namba R: Cementless Femoral Fixation Using Porous Ingrowth Fixation. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 285-294, 1991.
26. Amstutz HC, Nasser S, Lee YF, Hewitt WL: Management of Deep Sepsis. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 615-630, 1991.
27. Amstutz HC, Navarro RA: Surface Replacement Revision. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 855-860, 1991.
28. Amstutz HC, Yao J: Trochanteric Nonunion. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 457-467, 1991.
29. Amstutz HC, Yao J, Dorey FJ, et al: Acrylic Fixation - Stem and Socket Replacement: Results, Principles and Technique. In Amstutz HC (ed). Hip Arthroplasty, New York, Churchill Livingstone 239-260, 1991.
30. Friscia DA, Amstutz HC: Thromboembolic Phenomena. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 391-404, 1991.
31. Gebhard JS, Amstutz HC: Post-Traumatic Acute Fracture. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 701-708, 1991.
32. Hanker GJ, Amstutz HC: Sickle Cell Disease and the Hip. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 677-692, 1991.

HARLAN CABOT AMSTUTZ, M.D.

Curriculum Vitae

33. Kilgus DJ, Amstutz HC: Conversion of Ankylosed Hips to Total Hip Replacements. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 799-811, 1991.
34. Namba R, Amstutz HC: Femoral Fractures Associated with Total Hip Arthroplasty. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 603-614, 1991.
35. Nasser S, Schmalzried TP, Amstutz HC: Sepsis Prevention. In Amstutz HC (ed). Hip Arthroplasty, New York, Churchill Livingstone 449-456, 1991.
36. Safran MR, Amstutz HC: Non Traumatic Osteonecrosis. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 639-676, 1991.
37. Schmalzried TP, Amstutz HC: Nerve Surgery and Total Hip Arthroplasty. In Gelberman RH (ed). Operative Nerve Repair and Reconstruction. JB Lippincott Co. 1245-1254, 1991.
38. Severt R, Amstutz HC, Oppenheim WL: Pelvic Osteotomy. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 883-906, 1991.
39. Severt R, Oppenheim WL, Amstutz HC: Slipped Capital Femoral Epiphysis. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 775-786, 1991.
40. Thomas BJ, Amstutz HC: Primary Osteoarthritis. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 631-638, 1991.
41. Thomas BJ, Amstutz HC, Campbell P: Cementless Acetabular Reconstruction. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 271-284, 1991.
42. Thomas BJ, Amstutz HC, Yao J: Surgical Approaches to the Hip. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 213-226, 1991.
43. Wood RD, Duncan GJ, Amstutz HC, et al: Post-Traumatic Arthritis of the Hip. In Amstutz HC (ed). Hip Arthroplasty. New York, Churchill Livingstone 709-722, 1991.
44. Campbell P, Amstutz HC: The Need for Improved Orthopaedic Bearing Surfaces: A Clinical Perspective. In Sudarshan TS, Braza JF (eds). Surface Modification Technologies V. Cambridge, The University Press 15-24, 1992.
45. Campbell P, Gelman A, Kossovsky N, et al: Submicrometre Particulates In Human Periprosthetic Tissues. In Sudarshan TS, Braza JF (eds). Surface Modification Technologies V. Cambridge, The University Press 117-124, 1992.
46. Amstutz HC: Resurfacing Arthroplasties of the Hip. In Chapman MW (ed). Operative Orthopaedics. Philadelphia, JB Lippincott 3:1845-1858, 1993.
47. Dorey F, Amstutz HC: Discrepancies in the Orthopaedic Literature: Why? A Statistical Explanation. In AAOS. Instructional Course Lectures 42:555-564, 1993.
48. Amstutz HC: The Requirements for Artificial Joint Implants from the Surgeons View. In Buckhorn GH, Willert HG (eds). Technical Principles Design and Safety of Implants. Toronto, New York, Bern, Gottingen, Stuttgart, Hogrefe & Huber 1-7, 1994.
49. Amstutz HC, More RC, Kabo JM, et al: Acetabular Reconstruction with a Threaded Prosthesis for Failed Total Hip Replacement. In Buckhorn GH, Willert HG(eds).

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

- Technical Principles, Design and Safety of Implants. Toronto, New York, Bern, Gottingen, Stuttgart, Hofrefe & Huber 163-167, 1994.
50. Amstutz HC, Grigoris P, Grecula MJ: Anthropometric Total Hip Press-Fit in Revision Surgery. In Galante JO, Rosenberg AG, Callaghan JJ (eds). Total Hip Revision Surgery. New York, JJ Raven Press, Ltd 401-408, 1995.
 51. Amstutz H, Dorey F, Finerman G: The Cemented T-28/TR-28 Prosthesis. In Finerman G, Dorey F, Grigoris P, and McKellop H (eds). Total Hip Arthroplasty Outcomes. New York, Churchill Livingstone, 55-64, 1998.
 52. Amstutz H, Grigoris P: Smooth Press Fitted Stems. In Sedel Laurent and Cabanela, Miguel (eds). Hip Surgery: Materials and Development. United Kingdom, Martin Dunitz Ltd, 277-286, 1998.
 53. Amstutz H, Grigoris P: Surface Replacement of the Hip. In Sedel Laurent and Cabanela, Miguel (eds). Hip Surgery: Materials and Development. United Kingdom, Martin Dunitz Ltd, 393-398, 1998.
 54. Amstutz HC, Noordin S, Campbell PA, et al: Precision Fit Surface Hemiarthroplasty for Femoral Head Osteonecrosis. In Urbaniak, James and Jones John Paul (eds). Osteonecrosis: Etiology, Diagnosis, and Treatment. Illinois, American Academy of Orthopaedic Surgeons, 373-383, 1998.
 55. Amstutz HC, Yao J: Surgical Approaches: Transtrochanteric. In Sledge C (ed). The Hip. New York, Lippincott-Raven Publishers 33-49, 1998.
 56. Grigoris P, Amstutz H, Fowble, V: Precision-Fit Surface Hemiarthroplasty for Femoral Head Osteonecrosis. In Sedel Laurent and Cabanela, Miguel (eds). Hip Surgery: Materials and Development. United Kingdom, Martin Dunitz Ltd, 115-122, 1998.
 57. Campbell P, McKellop HA, Alim R, et al: Metal-Metal Hip Replacements: Wear Performance and Cellular Response to Wear Particles. Cobalt Base Alloys for Biomedical Applications. ASTM,STP 1365. J.A. Disegi, R.L. Kennedy and R. Pillar (eds). ASTM, West Conshohocken PA, 193-209, 1999.
 58. Amstutz H, Sparling E, Udomkiat P: Problems and Solutions for Improved Durability of Total Hip Replacement. In L.P. Garetto, C.H. Turner, R.L. Duncan, D.B. Burr (eds). Bridging the Gap Between Dental & Orthopaedic Implants. Proceedings of the 3rd Annual Indiana Conference, Indianapolis, Indiana. Indiana University School of Dentistry, 183-198, 2002.
 59. Beaulé P, Amstutz H: Surface Arthroplasty of the Hip Revisited: Current Indications and Surgical Technique. In R.K. Sinha (ed). Hip Replacement: Current Trends and Controversies. Marcel Dekker, Inc., NY, 261-297, 2002.
 60. Amstutz HC, Le Duff M, Dorey FJ: Hip Resurfacing: Indications, Results, and Prevention of Complications. In M. Sofue, N. Endo (Eds). Treatment of Osteoarthritic Change in the Hip Joint Preservation or Joint Replacement? Springer, Japan, 195-204, 2007.

BOOKS

1. Amstutz HC (ed): Hip Arthroplasty. New York, Churchill Livingstone, 1991.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

2. Amstutz HC (ed): Hip Resurfacing: Principles, Indications, Technique and Results. Philadelphia: Saunders - Elsevier, 2008.

EDITORIAL

1. Amstutz HC, Beals RK, Catterall A, et al: Report of the ABC Traveling Fellows. J Bone Joint Surg 54B:180-188, 1972.
2. Amstutz HC: Part II. Practical Considerations in the Selection of Materials and Design for Total Hip Replacement. AAOS Instructional Course Lectures. St. Louis, CV Mosby, 23: 169-178, 1974.
3. Amstutz HC: Presidential Address to the Orthopaedic Research Society. J Bone Joint Surg 56A:866-867, 1974.
4. Amstutz HC, Turner R, Lynch M: Moderator: Ranawat C: Symposium on Primary Total Hip Replacement Arthroplasty. Contemporary Orthopaedics. 1(3):52-77, 1979.
5. Amstutz HC: Total Hip Resurfacing - An Endangered Species with a Future. Orthopaedic Survey, 5:1-8, 1981.
6. Amstutz HC: Hip Arthroplasty Today and Tomorrow. Orthopaedics, 10 (12): 1759-1771, 1987.
7. Amstutz HC: No Time to Vegetate. JBJS, 75-A:434-438, 1993.
8. Amstutz HC: A Tribute to Mr. "BMP" Marshall Urist. CORR, 313:286-288, 1995.
9. Amstutz HC: Editorial Comment. CORR, 329S:S2-S3, 1996.
10. Amstutz HC: Precision-Fit Surface Hemiarthroplasty for Femoral Head Osteonecrosis. Orthopaedics Today 17(5): May, 1997.
11. Amstutz HC: Difficulty in Obtaining Initial and Enduring Fixation of Hip Joint Replacements in Gaucher Patients. Gaucher Clinical Perspectives 5(2):5, 1997.
12. Beaulé PE, Campbell P, Amstutz HC: Metallosis and Metal-on-Metal Bearings. Letter to Editor. JBJS, 82-A(5):751-2, May 2000.
13. Dorey FJ, Amstutz HC: The Need to Account for Patient Activity when Evaluating the Results of Total Hip Arthroplasty with Survivorship Analysis. JBJS, 84-A(5), May 2002.

PUBLICATIONS

1. Amstutz HC, Freiburger R: Coxa Vara in Children. Clin Orthop 22:73-92, 1962.
2. Amstutz HC, Wilson PD, Jr: Dysgenesis of the Proximal Femur (Coxa Vara) and Its Surgical Management. J Bone Joint Surg 44A:1-24, 1962.
3. Amstutz HC, Carey EJ: Skeletal Manifestations and Treatment of Gaucher's Disease. J Bone Joint Surg 48A:670-701, 1966.
4. Amstutz HC: Polymers as Bearing Materials for Total Hip Replacement. A Friction and Wear Analysis. J Biomed Mat'l Res 3:547-568, 1968.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

5. Amstutz HC: Morphology, Natural History and Treatment of Proximal Femoral Focal Deficiencies. Proc Nat'l Acad Sci: A Symposium, 50-76, 1969.
6. Amstutz HC: Multiple Osteogenic Sarcoma. Cancer 24:923-931, 1969.
7. Amstutz HC, Sissons H: The Structure of the Vertebral Spongiosa. J Bone Joint Surg 51B: 540-550, 1969.
8. Amstutz HC: Complications of Total Hip Replacement. Clin Orthop 72:123-137, 1970.
9. Amstutz HC: Developmental (Infantile) Coxa Vara-A Distinct Entity. Clin Orthop 72:242-247, 1970.
10. Amstutz HC: Asepsis and the Operating Room. Proc Symposia on Clean Room Technology in Surgery Suites. Pub. N.A.S.A. and Midwest Res. Inst., Kansas City, 135-143, 1971.
11. Amstutz HC, Lurie L, Bullough P: Skeletal Fixation with Self-Curing Polymethyl Methacrylate. A Report of 23 Canine Total Hip Replacements. Clin Orthop 84:192-210, 1972.
12. Wilson PD, Jr., Amstutz HC, Czerniecke A, Salvati, EA, Mendes, DG: Total Hip Replacement with Fixation by Acrylic Cement. A Preliminary Study of 100 McKee-Farrar Prosthetic Replacements. J Bone Joint Surg 54A:206-236, 1972.
13. Amstutz HC: Biomaterials for Artificial Joints. Orthop Clin North Am 4:235-248, 1973.
14. Amstutz HC: Innovations in Implants for Orthopedic Surgery. J Assoc Advance Med Instrument 7:9-15, 1973.
15. Amstutz HC: Joint Replacement: New Developments. Bull Mason Clin 27:103-115, 1973.
16. Amstutz HC: Prevention of Operative Infections. Proc. Clean Air Sympos. Cleveland Clinic Quarterly 40:125-131. 1973.
17. Amstutz HC: The Hip in Gaucher's Disease. Clin Orthop 90:83-89, 1973.
18. Amstutz HC: Total Knee Replacement - A "Misnomer" in Infancy. Orthop Rev II (1):7-8, 56, 1973.
19. Amstutz HC: Trapezoidal-28, Hip Joint Replacement. Clin Orthop 95:158-167, 1973.
20. Amstutz HC, Finerman GAM: Knee Joint Replacement: Development and Evaluation. Clin Orthop 94:24-41, 1973.
21. Amstutz HC, Gruen T: Clinical Application of Polymethyl Methacrylate for Total Joint Replacement. Current Practice in Orthopedic Surgery 5:158-182, 1973.
22. Amstutz HC, Gruen TA: Prosthetic Fixation with Polymethyl Methacrylate. Nat'l Acad Sci-Nat'l Res Council, Proc Sympos Internal Structural Prosthetics 52-57, 1973.
23. Amstutz HC, Weinstein A, Pavon G, Franceschini V: Orthopedic Implants. A Clinical and Metallurgical Analysis. J. Biomed Mat'l Res 7:297-325, 1973.
24. Coulson WR, Gruen T, Amstutz HC: Local Tissue Biocompatibility. Internal Structural

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

- Prostheses. Proc Workshop Studies for Internal Structural Prostheses 43-54, 1973.
25. Shurman D, Amstutz HC: Orthopaedic Management of Patients with Metastatic Breast Cancer. Surg Gyn Obstet 137:831-836, 1973.
 26. Schurman D, Amstutz HC: Treatment of Neoplastic Subtrochanteric Fracture: Six Cases Treated with Zickel Nail. Clin Orthop 97:108-113, 1973.
 27. Amstutz HC: Part I. Skeletal Fixation and Loosening of Total Hip Prostheses. AAOS Instructional Course Lectures, 23:201-209, St. Louis, CV Mosby, 1974.
 28. Amstutz HC: Part II. Practical Considerations in the Selection of Materials and Design for Total Hip Replacement. AAOS Instructional Course Lectures 23:169-178, St. Louis, CV Mosby, 1974.
 29. Amstutz HC: Treatment of Sepsis in Total Hip Replacement. AAOS Instructional Course Lectures 23:248-253, 1974.
 30. Amstutz HC, Markolf K: Design Features in Total Hip Replacement. The Hip. St. Louis, CV Mosby 111-124, 1974.
 31. Irvine R, Johnson BL, Jr., Amstutz HC: Genitourinary Tract Procedures and Deep Sepsis After Total Hip Replacements. Surg Gyn Obstet 139:701-706, 1974.
 32. Amstutz HC: Biomechanics of Total Hip Replacement. In Cruess R, Mitchell N (eds). Surgical Management of Degenerative Arthritis of the Lower Extremities. Philadelphia, Lea & Febiger 82-90, 1975.
 33. Amstutz HC: One-Stage Femoral Lengthening. J Hosp for Spec Surg 1:57-64, 1975.
 34. Amstutz HC: High Velocity Directional Air Flow Systems (HVDAFS). Western J Med 122: 154-155, 1975.
 35. Amstutz HC, Christie JC, Mensch JS: Treatment of Osteonecrosis of the Hip. The Hip, St. Louis, CV Mosby 19-34, 1975.
 36. Amstutz HC, Contini R, Johnson RL: Biomechanical Considerations of Multiple Component Hip Prosthesis. Clin Orthop 106:131-139, 1975.
 37. Amstutz HC, Markolf K: The Knee Prosthesis: Bioengineering and Design. In Creuss R, Mitchell N (eds). Surgical management of Degenerative Arthritis of the Lower Extremities. Philadelphia, Lea & Febiger 170-178, 1975.
 38. Amstutz HC, Sakai D: Total Joint Replacement for Ankylosed Hips - Indications, Technique, and Preliminary Results. J Bone Joint Surg 57A(5):619-625, 1975.
 39. Buchberg H, Amstutz HC, Wright JD, Ludwig RM: Evaluation and Optimum Use of Directed Horizontal Filtered Air Flow for Surgeries. Clin Orthop 111:151-155, 1975.
 40. Clarke IC, Amstutz HC: Human Hip Joint Geometry and Hemiarthroplasty Selection. The Hip, St. Louis, CV Mosby 63-89, 1975.
 41. Clarke IC, Mirra J, Amstutz HC: Cartilage Fibrillation Versus Ink-Staining Patterns. Scanning Electron Microscope Study. Ann Rheum Dis 34:12-16, Supplement, 1975.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

42. Clarke IC, Schurman DJ, Amstutz HC: In Vivo and In Vivo Comparative Studies of Animal Articular Surfaces. *Ann Biomed Eng* 3:100-110, 1975.
43. Gold RH, Amstutz HC: Surgical Procedures for Congenital Dislocation of the Hip. *Radiol Clins No Amer* XIII(1):123-137, 1975.
44. Gruen TA, Amstutz HC: A Failed Vitallium Stainless Steel Total Hip Replacement: A Case Report with Histological and Metallurgical Examination. *J Biomed Mat'l Res* 9:465-477, 1975.
45. Ludwig RM, Amstutz HC, Schurman DJ, et al: Range of Motion Studies for Total Hip Replacement: A Comparative Study with New Experimental Apparatus. *Clin Orthop* 111: 124-130, 1975.
46. Mensch JS, Amstutz HC: Knee Morphology as a Guide to Knee Replacement. *Clin Orthop* 112:231-241, 1975.
47. Pearson CM, Amstutz HC, Bluestone R, et al: Diagnosis and Treatment of Erosive Rheumatoid Arthritis and Other Forms of Joint Destruction. *Ann Internal Medicine* 82:241-256, 1975.
48. Schurman DJ, Johnson BL, Amstutz HC: Staphylococcus Aureus and Micrococcus Species: Knee Joint Infections. A Study of the Influence of Antibiotics, Metal Debris, Blood and Steroids in a Rabbit Model. *J Bone Joint Surg* 57A:40-49, 1975.
49. Schurman D, Johnson BL, Finerman G, et al: Antibiotic Bone Penetration-Concentrations of Methicillin and Clindamycin Phosphate in Human Bone Taken During Total Hip Replacement. *Clin Orthop* 111:142-146, 1975.
50. Amstutz, HC: Orthopedic Implants: Anticipated Effect of Device Legislation and Regulation. New Requirements for Device Investigations: Preclinical and Clinical Evaluation. Proc. 3rd Annual AAMI/FDA Conference Medical Device Regulation, Nov. 3-4, 1976, Washington, D.C. The Association for the Advancement of Medical Instrumentation, Arlington, VA, pp. 9-13.
51. Amstutz HC, Coulson W, David E: Canine Tendon Studies, Part I. Reconstruction of the Canine Achilles and Patellar Tendons Using Dacron Mesh Silicone Prosthesis. I. Clinical and Biocompatibility Evaluation. *J Biomed Mat'l Res* 10:47-59, 1976.
52. Amstutz HC, Ludwig M: Wear of Polymeric Bearing Materials: The Effects of In Vivo Implantation. *J Biomed Mat'l Res* 10:25-31, 1976.
53. Amstutz HC, Markolf K, McNeice GM, et al: Loosening of Total Hip Components: Cause and Prevention. *The Hip*, St. Louis, C.V. Mosby 102-116, 1976.
54. Clarke I, Black K, Rennie C, et al: Can Wear in Total Hip Arthroplasties be Assessed from Radiographs? *Clin Orthop* 121:126-142, 1976.
55. Clarke I, Gruen T, Matos M, et al: Improved Methods for Quantitative Radiographic Evaluation with Particular Reference to Total Hip Arthroplasty. *Clin Orthop* 121:83-91, 1976.
56. Gruen TA, Markolf KL Amstutz HC: Effects of Laminations and Blood Entrapment on the Strength of Acrylic Bone Cement. *Clin Orthop* 119:250-255, 1976.
57. Markolf K, Amstutz HC: A Comparative Experimental Study of Stresses in Femoral Total Hip Replacement Components: The Effects of Prostheses Orientation and Acrylic Fixation. *J Biomech* 9:73-79, 1976.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

58. Markolf K, Amstutz HC: In Vitro Measurements of Bone/Acrylic Interface Pressures during Femoral Prosthesis Insertion. *Clin Orthop* 121:60-66, 1976.
59. Markolf K, Amstutz HC: Penetration and Flow of Acrylic Bone Cement. *Clin Orthop* 121:99-102, 1976.
60. Markolf K, Mensch J, Amstutz HC: Stiffness and Laxity of the Knee - Contributions of the Supporting Structures. A Quantitative In Vitro Study. *J Bone Joint Surg* 58A:583-594, 1976.
61. McKellop H, Clarke I, Markolf K, et al: Polyethylene Wear in Prosthetic Joints. In D. Dowson, V Wright (eds). *Evaluation of Artificial Joints*. London, FS Moore, 1976.
62. McNeice GM, Amstutz HC: Finite Element Studies in Hip Reconstruction. In PV Kome (ed), Baltimore, University Park Press, 394-405, 1976.
63. Mirra J, Amstutz HC, Matos M, et al: The Pathology of the Joint Tissues and Its Clinical Relevance in Prosthesis Failure. *Clin Orthop* 117:221-240, 1976.
64. Sakai DN, Amstutz HC: Prevention of Thromboembolic Phenomena. *Clin Orthop* 121:108-112, 1976.
65. Wagner CNJ, Shabaik AH, Schurman D, et al: Preparation and Characterization of Wear Debris of Orthopedic Materials for Biocompatibility Studies. *J Biomed Mat'l Res* 10:653-670, 1976.
66. Walker PS, Amstutz HC, Rubinfeld MS: Canine Tendon Studies, Part II. Biomechanical Evaluation of Normal and Regrown Canine Tendons. *J Biomed Mat'l Res* 10:61-76, 1976.
67. Amstutz HC, Kass V: Management of the Septic Total Hip Replacement. *The Hip*, St. Louis, C.V. Mosby 152-169, 1977.
68. Amstutz HC, Clarke I, Christie J, et al: Total Hip Articular Replacement by Internal Eccentric Shells. The "THARIES" Approach to total Surface Replacement Arthroplasty. *Clin Orthop* 128:261-284, 1977.
69. Clarke I, Amstutz HC, Christie J. et al: The John Charnley Award Paper: THARIES Surface Replacement Arthroplasty for the Arthritic Hip: Rebirth of an Earlier Concept? *The Hip*, St. Louis, C.V. Mosby 235-264, 1977.
70. Amstutz HC, Graff-Radford, A, Gruen TA, et al: THARIES Surface Replacements: A Review of the First 100 Cases. *Clin Orthop* 134:87-101, 1978.
71. Amstutz HC, Maki S: Complications of Trochanteric Osteotomy in Total Hip Replacment. *J Bone Joint Surg* 60A(2):214-216, 1978.
72. Amstutz HC, Sakai DN: Equalization of Leg Length, *Clin Orthop* 136:2-6, 1978.
73. Eckardt JJ, Gossett TC, Amstutz HC: Autologous Transfusion and Total Hip Arthroplasty. *Clin Orthop* 132:39-45, 1978.
74. Herron LD, Amstutz HC, Sakai DN: One Stage Femoral Lengthening in the Adult. *Clin Orthop* 139:74-82, 1978.
75. Markolf K, Graff-Radford A, Amstutz HC: In Vivo Knee Stability. A Quantitative Assessment

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

- Using an Instrumented Clinical Testing Apparatus. *J Bone Joint Surg* 60A(5):664-674, 1978.
76. McKellop H, Clarke I, Markolf K, et al: Wear Characteristics of UHMW Polyethylene: A Method for Accurately Measuring Extremely Low Wear Rates. *J Biomed Mat'l Res* 12:895-927, 1978.
77. Amstutz HC, Smith RK: Total Hip Replacement Following Failed Femoral Hemiarthroplasty. *J Bone Joint Surg* 61A(8):1161-1166, 1979.
78. Clarke I, Amstutz HC: Design Concepts and Results of Surface Replacement Procedures for the Hip Joint. In Kenedi RM, Paul JP, Hughes J (eds). *Disability: Proceedings of a Seminar on Rehabilitation of the Disabled*, 1978, Glasgow Scotland, Great Britain, J Hughes, Macmillan Co, 230-252, 1979.
79. Clarke I, Gruen TA, Sew Hoy A, et al: Problems in Gleno-Humeral Surface Replacements - Real or Imagined? *Eng in Med, I Mech E* 8:161-175, 1979.
80. Clarke I, Phillips W, McKellop H, et al: Development of a Ceramic Surface Replacement for the Hip - An Experimental Sialon Model. *Biomat Med Dev, Art Org* 7(1): 111-126, 1979.
81. Cracchiolo A, Benson M, Finerman G, et al: A Prospective Comparative Clinical Analysis of the First-Generation Knee Replacements: Polycentric vs. Geometric Knee Arthroplasty. *Clin Orthop* 145:37-46, 1979.
82. Gruen T, McNeice G, Amstutz HC: "Modes of Failure" of Cemented Stem-Type Femoral Components. *Clin Orthop* 141:17-27, 1979.
83. Hedley AK, Clarke I, Bloebaum RD, et al: Viability and Cement Fixation of the Femoral Head on Canine Hip Surface Replacement. *The Hip*, St. Louis, C.V. Mosby, 160-187, 1979.
84. Markolf K, Finerman GAM, Amstutz HC: In Vitro Measurements of Knee Stability after Biocondylar Replacement. *J Bone Joint Surg* 61A(4):547-557, 1979.
85. Markolf K, Hirschowitz D, Amstutz HC: Mechanical Stability of the Greater Trochanter Following Osteotomy and Reattachment by Wiring. *Clin Orthop* 141:111-121, 1979.
86. Matos MH, Amstutz HC, Machleder HI: Ischemia of the Lower Extremity after Total Hip Replacement. *J Bone Joint Surg* 61A(1):24-27, 1979.
87. Amstutz HC: Femoral Looseness in THR Using Conventional Cement Techniques. *Orthop Rev*, IX(5):51-56, 1980.
88. Amstutz HC: Rationale, Design, Considerations and Instrumentation for THARIES. Complications, Pitfalls and Early Results. *Orthop Rev* IX (5):51-56, 1980.
89. Amstutz HC: Reoperation for Nonseptic Failed Total Hip Replacement. *Orthop Rev* IX(5): 150-153, 1980.
90. Amstutz HC: Surface Replacement of the Hip. *The Hip*. St. Louis, C.V. Mosby 47-67, 1980.
91. Markolf K, Amstutz HC: Mechanical Strength of the Femur Following Resurfacing and Conventional Total Hip Replacement Procedures. *Clin Orthop* 147:170-180, 1980.
92. Markolf KL, Hirschowitz DL, Amstutz HC: The Effect of "Calcar Contact" on Femoral Component

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

- Micromovement - A Mechanical Study. *J Bone Joint Surg* 62A(8):1315-1324, 1980.
93. Moreland JR, Gruen TA, Mai LL, et al: Aseptic Loosening of Total Hip Replacement: Incidence and Significance. *The Hip*. St. Louis, C.V. Mosby 281-291, 1980.
94. Amstutz HC, Graff-Radford A, Mai LL, et al: Surface Replacement of the Hip with the THARIES system: Two to Five Year Results. *J Bone Joint Surg* 63A:1069-1071, 1981.
95. Amstutz HC, Sew Hoy AL, Clarke IC: UCLA Anatomic Total Shoulder Arthroplasty, *Clin Orthop*, 155:7-20, 1981.
96. Clarke IC, Sew Hoy AL, Gruen TA, et al: Clinical and Radiographic Assessment of a Non-Constrained Total Shoulder. *Int'l Orthop (SICOT)* 5(1):1-8, 1981.
97. Markolf KL, Bargar WL, Shoemaker SC, et al: The Role of Joint Load in Knee Stability. *J Bone Joint Surg* 63A(4):570-585, 1981.
98. McKellop H, Clarke I, Markolf K, et al: Friction and Wear Properties of Polymer, Metal, and Ceramic Prosthetic Joint Materials Evaluated on a Multichannel Screening Device. *J Biomed Mat'l Res* 15:619-653, 1981.
99. Sew Hoy AL, Hedley AK, Clarke IC, et al: The Acetabular Cement-Bone Interface in Experimental Arthroplasties in Dogs. *Clin Orthop* 155:231-243, 1981.
100. Amstutz HC: Results of Revision Arthroplasty of the Hip. *Proc in Excerpta Medica*, Amsterdam, 94-106, 1982.
101. Amstutz HC: The THARIES Hip Resurfacing Technique. *Orthop Clin North Am* 13(4):813-832, 1982.
102. Amstutz HC, Graff-Radford A: The THARIES Approach to Surface Replacement of the Hip. *Instructional Course*, St. Louis, C.V. Mosby 30:422-433, 1982.
103. Amstutz HC, Kim WC, Thomas BJ, et al: THARIES - Two- to Six- and -a Half-Year Results. *Proceedings of The Hip Society*, St. Louis, C.V. Mosby 185-197, 1982.
104. Amstutz HC, Ma S, Jinnah R, et al: Revision of Aseptic Loose Total Hip Arthroplasties. *Clin Orthop* 170:21-33, 1982.
105. Dutton RO, Amstutz HC, Thomas BJ, et al: THARIES Surface Replacement for Osteonecrosis of the Femoral Head. *J Bone Joint Surg* 64A(8):1225-1237, 1982.
106. Hedley AK, Clarke IC, Kozinn SC, et al: Porous Ingrowth Fixation of the Femoral Component in a Canine Surface Replacement of the Hip. *Clin Orthop* 163:300-311, 1982.
107. Mirra JM, Marder RA, Amstutz HC: The Pathology of Failed Total Joint Arthroplasty. *Clin Orthop* 170:175-183, 1982.
108. Thomas B, Amstutz HC: Revision Surgery for Failed Surface Arthroplasty of the Hip. *Clin Orthop* 170:42-49, 1982.
109. Thomas BJ, Amstutz HC, Mai LL, et al: Identification of Hip Surface Arthroplasty Failures with TcSC/TcmDP Radionuclide Imaging. *Clin Orthop* 167:106-112, 1982.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

110. Cherney DL, Amstutz HC: Total Hip Replacement in the Previously Septic Hip. *J Bone Joint Surg* 65A(9):1256-1265, 1983.
111. Hedley AK, Kabo M, Kim W, et al: Bony Ingrowth Fixation of Newly Designed Acetabular Components in a Canine Model. *Clin Orthop* 176:12-23, 1983.
112. Kirkpatrick JS, Clarke IC, Amstutz HC, et al: Radiographic Techniques for Consistent Visualization of Total Hip Arthroplasties. *Clin Orthop* 174:158-163, 1983.
113. Ma SM, Kabo JM, Amstutz HC: Frictional Torque in Surface and Conventional Hip Replacement. *J Bone Joint Surg* 65A(3):366-370, 1983.
114. Markolf KL, Amstutz HC: Compressive Deformations of the Acetabulum during In Vitro Loading. *Clin Orthop* 173:284-292, 1983.
115. Thomas BJ, Moreland JR, Amstutz HC: Infection after Total Joint Arthroplasty from Distal Extremity sepsis. *Clin Orthop* 181:122-125, 1983.
116. Amstutz HC, Johnson EE, Finerman GA, et al: New Advances in Bone Research. *West J Med* 141(1):71-87, 1984.
117. Amstutz HC, Mai LL, Schmidt I: Results of Interlocking Wire Trochanteric Reattachment and Technique Refinements to Prevent Complications following Total Hip Arthroplasty. *Clin Orthop* 183:82-89, 1984.
118. Amstutz HC, Thomas BJ, Jinnah R, et al: Treatment of Primary Osteoarthritis of the Hip. A Comparison of Total Joint and Surface Replacement Arthroplasty. *J Bone Joint Surg* 66A(2): 228-241, 1984.
119. Kim WC, Amstutz HC, O'Carroll, PF, et al: Porous Ingrowth in Canine Resurfacing Hip Arthroplasty: Analysis of Results with up to a Two-year Follow-up. *John Charnley Award. The Hip, St. Louis, C.V. Mosby* 211-243, 1984.
120. Markolf KL, Kabo JM, Stoller DW, et al: Flow Characteristics of Acrylic Bone Cements. *Clin Orthop* 183:246-254, 1984.
121. Markolf KM, Kochan A, Amstutz HC: Measurement of Knee Stiffness and Laxity in Patients with Documented Absence of the Anterior Cruciate Ligament. *J Bone Joint Surg* 66A(2):242-252, 1984.
122. Amstutz HC: Arthroplasty of the Hip: The Search for Durable Component Fixation. *Clin Orthop* 200:343-361, 1985.
123. Amstutz HC, Dorey F: The Development of Nine-Year Results of THARIES Resurfacing Arthroplasty. In Sevastik J, Goldie I (eds). *The Young Patient with Degenerative Hip Disease. Vol 207. Uppsala, Stockholm, Almqvist & Wiksell Tryckeri* 202-211, 1985.
124. Amstutz HC, Kabo JM, O'Carroll PF, et al: Experimental and Preliminary Clinical Results of Porous Hip Resurfacing. In Sevastik J, Goldie I (eds). *The Young Patient with Degenerative Hip Disease. Vol 207. Uppsala, Stockholm, Almqvist & Wiksell Tryckeri* 248-259, 1985.
125. Amstutz HC, O'Carroll PF, Kabo M, et al: Comparative Experience with Canine and Human Titanium fiber and Beaded Acetabular Components. *The Hip, St. Louis, C.V. Mosby* 235-249, 1985.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

126. Thomas BJ, Amstutz, HC: Results of the Administration of Diphosphonates in the Prevention of Heterotopic Ossification after Total Hip Replacement. *J Bone Joint Surg* 67A(3):400-403, 1985.
127. Amstutz HC, Dorey F, O'Carrol PF: THARIES Resurfacing Arthroplasty - Evolution and Long Term Results. *Clin Orthop* 213:92-114, 1986.
128. Amstutz HC, Kim WC, O'Carrol PF, et al: Canine Porous Resurfacing Hip Arthroplasty: Long-Term Results. *Clin Orthop* 207:270-289, 1986.
129. Amstutz HC, Ouzounian T, Grauer D, et al: The Grid Radiograph. A Simple Technique for Consistent High Visualizaition of the Hip. *J Bone Joint Surg* 68A:1052-1056, 1986.
130. Dorey F, Amstutz HC: Survivorship Analysis in the Evaluation of Joint Replacement. *J Arthrop* 1(1):63-69, 1986.
131. Grogan TJ, Dorey F, Rollins J, et al: Deep Sepsis Following Total Knee Arthroplasty. *J Bone Joint Surg* 68A(2):226-234, 1986.
132. Jinnah RJ, Amstutz HC, Tooke SM, et al: The UCLA Charnley Experience: A Long-Term Follow-Up Using Survivorship Analysis. *Clin Orthop* 211:164-172, 1986.
133. Kim WC, Rechl H, Amstutz HC, et al: Results of a Stemmed Bone Ingrowth Hip Resurfacing Arthroplasty in the Canine. *Mat Res Soc Symp Proc* 55:197-202, 1986.
134. Kim WC, Rechl H, Amstutz HC, et al: Use of Bone Morphogenetic Protein (BMP) and Cancellous Graft for Porous-Surfaced Interface Voids. *Mat Res Soc Symp Proc* 55:191-195, 1986.
135. Shoemaker S, Markolf K, Amstutz H, et al: Effects of Partial Medial Meniscectomy in the Loaded Knee. *J Bone Joint Surg* 68A:71-79, 1986.
136. Amstutz HC, Kabo M, Hermens K, et al: Porous Surface Replacement of the Hip with Chamfer Cylinder Design. *Clin Orthop* 222:140-160, 1987.
137. Amstutz HC, Kilgus DJ, Thomas BJ, et al: Evaluation of Bony Ingrowth by Technetium Diphosphonate and Sulfur Colloid Scanning in Porous Hip Resurfacing. In Brand R (ed). *The Hip*, St. Louis, C.V. Mosby 257-270, 1987.
138. Kim WC, Grogan T, Amstutz HC, et al: Survivorship Comparison of THARIES and Conventional Hip Arthroplasty in Patients Younger than 40 Years. *Clin Orthop* 214:269-277, 1987.
139. Markolf KL, Amstutz HC: The Clinical Relevance of Instrumented Testing for ACL Insufficiency: Experience with the UCLA Clinical Knee Testing Apparatus. *Clin Orthop* 223:198-207, 1987.
140. Ouzounian T, Amstutz HC: Evaluation of Musculoskeletal Sepsis Utilizing Indium-111 WBC Imaging. *Clin Orthop* 221:304-311, 1987.
141. Thomas BJ, Amstutz HC: Prevention of Heterotopic Bone Formation: Clinical Experience with Diphosphonates. In Brand R (ed). *The Hip*, St. Louis, C.V. Mosby 59-67, 1987.
142. Tooke SM, Amstutz HC, Delaunay C: Hemiresurfacing for Femoral Head Osteonecrosis. *J Arthrop* 2:125-133, 1987.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

143. Tooke SM, Amstutz HC, Hedley AK: Results of Transtrochanteric Rotational Osteotomy for Femoral Head Osteonecrosis. *Clin Orthop* 224:150-157, 1987.
144. Amstutz HC, Kabo JM, Kim WC, et al: Risk Factors for Femoral Head Resurfacing. In Fitzgerald RH, Jr. (ed). *Non-Cemented Total Hip Arthroplasty*. New York, Raven Press 191-210, 1988.
145. Amstutz H, Kilgus D, Kabo M, et al: Porous Surface Replacement of the Hip with Chamfered-Cylinder Component. *Arch Orthop Trauma Surg* 107(2):73-85, 1988.
146. Amstutz HC, Thomas BJ, Kabo JM, et al: The Dana Total Shoulder Arthroplasty. *J Bone Joint Surg* 70A(8):1174-1182, 1988.
147. Amstutz HC, Yao J, Dorey FJ, et al: Survival Analysis of T-28 Hip Arthroplasty with Clinical Implications. In Salvati EA (ed). *Long-Term Results of Cemented Joint Replacement*. *Orthop Clin North Am* 19(3):491-503, 1988.
148. Hanker GJ, Amstutz HC: Osteonecrosis of the Hip in the Sickle-Cell Diseases, Treatment and Complication. *J Bone Joint Surg* 70A(4):499-506, 1988.
149. Kay SP, Amstutz HC: Shoulder Hemi Arthroplasty at UCLA. *Clin Orthop* 228:41-43, 1988.
150. Sylvester JE, Greenberg P, Selch MT, et al: The Use of Postoperative Irradiation for the Prevention of Heterotopic Bone Formation After Total Hip Replacement. *J Radiation Oncology Biol Phys* 14:471-476, 1988.
151. Amstutz H, Friscia D, Dorey F, et al: Warfarin Prophylaxis to Prevent Mortality from Pulmonary Embolism After Total Hip Replacement. *J Bone Joint Surg* 71A(3):321-326, 1989.
152. Amstutz HC, Nasser S, Kabo JM: Preliminary Results of an Off-the-Shelf Press-Fit Stem. The Anthropometric Total Hip Femoral Component Using Exact-Fit Principles. *Clin Orthop* 249:60-72, 1989.
153. Amstutz HC, Nasser S, More RC: The Anthropometric Total Hip Femoral Prosthesis: Preliminary Clinical and Roentgenographic Findings of Exact-Fit Cementless Application. *Clin Orthop* 242:104-119, 1989.
154. Dorey F, Amstutz HC: Validity of Survivorship Analysis in Total Joint Arthroplasty. *J Bone Joint Surg* 71A(4):544-548, 1989.
155. Grauer JD, Amstutz HC, O'Carroll PF, et al: Resection Arthroplasty of the Hip. *J Bone Joint Surg* 71A(5):669-678, 1989.
156. Amstutz H, Kilgus D, Kabo M, et al: Porous Surface Replacement of the Hip. *Orthop Related Sciences* 1:62-74, 1990.
157. Amstutz HC, Yao J, Markolf K, et al: Stem Fracture Incidence in T-28 Stainless Steel Hip Arthroplasty. *Clin Orthop* 256:105-114, 1990.
158. Bloebaum RD, Gruen T, Robertson GS, et al: Dimensional Studies of Orthopaedic Bone Cement in Spurr and Acrylic Embedding Media. *J Histotechnology* 13(1):55-59, 1990.
159. Davlin L, Amstutz HC, Tooke SM, et al: Treatment of Osteoarthritis Secondary to

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

- Congenital Dislocation of the Hip: Primary Cemented Surface Replacement Compared with Conventional Total Hip Replacement. *J Bone Joint Surg* 72A:1035-1042, 1990.
160. Kilgus D, Amstutz HC, Wolgin M, et al: Joint Replacement for Ankylosed Hips. *J Bone Joint Surg* 72(1):45-54, 1990.
161. Kilgus D, Namba R, Gorek J, et al: Total Hip Replacement for Patients Who Have Ankylosing Spondylitis: The Importance of the Formation of Heterotopic Bone and of the Durability of Fixation of Cemented Components. *J Bone Joint Surg* 72A:834-839, 1990.
162. Kody MH, Kabo K, Markolf, K et al: Strength of Initial Mechanical Fixation of Screw-Ring Acetabular Components. *Clin Orthop* 257:146-154, 1990.
163. Nasser S, Campbell P, Kilgus D, et al: Cementless Total Joint Arthroplasty Prostheses with Titanium Alloy Articular Surfaces: A Human Implant Retrieval Analysis. *Clin Orthop* 261: 151-185, 1990.
164. Severt R, Wood R, Cracchiolo A, et al: Long-Term Follow-Up of Cemented Total Hip Arthroplasty in Rheumatoid Arthritis. *Clin Orthop* 265:137-145, 1990.
165. Campbell PA, Amstutz HC: Wear-Induced Osteolysis in Ti-6Al-4V/UHMWPE Joint Replacements. *Complications in Orthopaedics* 116-120, 1991.
166. Kilgus DJ, Dorey F, Finerman GAM, et al: Patient Activity, Sports Participation, and Impact Loading on the Durability of Cemented Total Hip Replacements. *Clin Orthop* 269:25-31, 1991.
167. Kossovsky N, Liao K, Millett D, et al: Periprosthetic Chronic Inflammation Characterized Through the Measurement of Superoxide Anion Production by Synovial-Derived Macrophages. *Clin Orthop* 263:263-271, 1991.
168. Schmalzried TP, Amstutz HC, Dorey FJ: Nerve Palsy Associated with Total Hip Replacement. Risk Factors and Prognosis. *J Bone Joint Surg* 73A(7):1074-1080, 1991.
169. Thomas BJ, Amstutz HC, Cracchiolo A: Shoulder Arthroplasty for Rheumatoid Arthritis. *Clin Orthop* 265:125-128, 1991.
170. Amstutz HC, Campbell P, Kossovsky N, et al: Mechanism and Clinical Significance of Wear Debris-Induced Osteolysis. *Clin Orthop* 267:7-18, 1992.
171. Amstutz HC, Grecula MJ, Dorey FJ: Prevention of Thromboembolic Disease with Warfarin. *Seminars in Arthrop* 3(2):99-107, 1992.
172. Campbell P, Nasser S, Kossovsky N, et al: Histopathological Effects of Ultrahigh-Molecular-Weight Polyethylene and Metal Wear Debris in Porous and Cemented Surface Replacements. *Amer Soc for Testing Mat'l* 38-51, 1992.
173. Gebhard JS, Amstutz HC, Zinar DM, et al: A Comparison of Total Hip Arthroplasty and Hemiarthroplasty for Treatment of Acute Fracture of the Femoral Neck. *Clin Orthop* 282: 123-131, 1992.
174. Kossovsky N, Liao K, Gelman A et al: Photon Correlation Spectroscopy Analysis of the Submicrometre Particulate Fraction in Human Synovial Tissues Recovered at Arthroplasty or Revision. *Particulate Debris from Medical Implants: Mechanisms of Formation and*

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

- Biological Consequences. *Am Soc Testing Mat'l* 68-74, 1992.
175. More R, Amstutz HC, Kabo JM, et al: Acetabular Reconstruction with a Threaded Prosthesis for Failed Total Hip Arthroplasty. *Clin Orthop* 282:114-122, 1992.
 176. Schmalzried T, Amstutz HC, Au MK, et al: Etiology of Deep Sepsis in Total Hip Arthroplasty. The Significance of Hematogenous and Recurrent Infections. *Clin Orthop* 280:200-207, 1992.
 177. Dorey F, Nasser S, Amstutz HC: The Need for Confidence Intervals in the Presentation of Orthopaedic Data. *J Bone Joint Surg* 75A:1844-1853, 1993.
 178. Kabo JM, Gebhard JS, Loren G, et al: In Vivo Wear of Polyethylene Acetabular Components. *J Bone Joint Surg* 75B: 254-258, 1993.
 179. Kaufer H, Amstutz HC, Cuckler JM, et al: Symposium: Osteolysis in Total Joint Replacement. *Cont Orthop* 27, 1993.
 180. Zohman GL, Kabo JM, Amstutz HC: Computer Graphic Analysis of Endosteal Expansion After Total Hip Arthroplasty. *Clin Orthop* 286:40-45, 1993.
 181. Amstutz HC, Grigoris P, Safran MR, et al: Precision-Fit Surface Hemiarthroplasty for Femoral Head Osteonecrosis. Long Term Results. *J Bone Joint Surg* 76B:423-427, 1994.
 182. Campbell P, Ma S, Schmalzried T, et al: Technical Note: Tissue Digestion for Wear Debris Particle Isolation. *J Biomed Mat'l Res* 28:523-526, 1994.
 183. Dorey F, Grigoris P, Amstutz H: Making Do Without Randomized Trials. *J Bone Joint Surg* 76B:1-3, 1994.
 184. Grecula MJ, Grigoris P, Amstutz HC: The Surgical Management of Femoral Head Osteonecrosis in Gaucher Disease. *Gaucher Clin Perspectives* 2:1-5, 1994.
 185. Grigoris P, Grecula M, Amstutz H: Tripolar Hip Replacement for Recurrent Prosthetic Dislocation. *Clin Orthop* 304:148-155, 1994.
 186. Grigoris P, Grecula M, Amstutz HC: Dislocation of a Total Hip Arthroplasty Caused by Iliopsoas Tendon Displacement. *Clin Orthop* 306:132-136, 1994.
 187. Schmalzried TP, Guttman D, Grecula M, et al: The Relationship Between the Design, Position and Articular Wear of Acetabular Components Inserted Without Cement and the Development of Pelvic Osteolysis. *J Bone Joint Surg* 76A(5):677-688, 1994.
 188. Campbell P, Ma S, Yeon B, et al: Isolation of Predominantly Submicron-Sized UHMWPE Wear Particles from Periprosthetic Tissues. *J Biomed Mat'l Res* 29:127-131, 1995.
 189. Grigoris P, Amstutz HC: Hip Arthroplasty in the Young. *ACTA Orthop Hellinica* 46(1):17-25, 1995.
 190. Grigoris P, Amstutz HC: The Treatment of Femoral Head Osteonecrosis with Precision-Fit Surface Hemiarthroplasty. *ACTA Orthop Hellinica* 46(1):26-33, 1995.
 191. Grigoris P, Grecula MJ, Amstutz HC: Hip Arthroplasty for Femoral Head Osteonecrosis in Gaucher's Disease. *Hip Int'l* 5(1):25-30, 1995.

HARLAN CABOT AMSTUTZ, M.D.

Curriculum Vitae

192. Kay RM, Dorey FJ, Johnston-Jones K, et al: Long-Term Durability of Cemented Primary Total Hip Arthroplasty. *J Arthrop* 10:S29-S37, 1995.
193. McKellop H, Campbell P, Park SH, et al: The Origin of Sub-Micron Polyethylene Wear Debris in Total Hip Arthroplasty. *Clin Orthop* 311:3-20, 1995.
194. Navarro RA, Schmalzried TP, Amstutz HC, et al: Surgical Approach and Nerve Palsy in Total Hip Arthroplasty. *J Arthrop* 10(1):1-5, 1995.
195. Amstutz HC, Campbell P, McKellop H, et al: Metal on Metal Total Hip Replacement Workshop Consensus Document. *Clin Orthop* 329S:S297-S303, 1996.
196. Amstutz HC, Grigoris P: Metal on Metal Bearings in Hip Arthroplasty. *Clin Orthop* 329S:S11-S33, 1996.
197. Campbell P, Doorn P, Dorey F, et al: Wear and Morphology of Ultra-High Molecular Weight Polyethylene Wear Particles from Total Hip Replacements. *Proc Instn Mec Engrs* 210:167-174, 1996.
198. Doorn PF, Campbell PA, Amstutz HC: Metal Versus Polyethylene Wear Particles in Total Hip Replacements: A Review. *Clin Orthop* 329S:S206-S216, 1996.
199. Doorn PF, Mirra JM, Campbell PA, et al: Tissue Reaction to Metal on Metal Total Hip Prosthesis. *Clin Orthop* 329S:S187-S205, 1996.
200. Grigoris P, Safran M, Brown I, et al: Long-Term Results of Transtrochanteric Rotational Osteotomy for Femoral Head Osteonecrosis. *Arch Orthop Trauma Surg* 115:127-130, 1996.
201. Jacobs JJ, Skipor AK, Doorn PF, et al: Cobalt and Chromium Concentrations in Patients with Metal on Metal Total Hip Replacements. *Clin Orthop* 329S:S256-S263, 1996.
202. Mai MT, Schmalzried TP, Dorey FJ: The Contribution of Frictional Torque to Loosening at the Cement-Bone Interface in Tharies Hip Replacements. *J Bone Joint Surg* 78A:505-511, 1996.
203. McKellop H, Park SH, Chiesa R, et al: In Vivo Wear of 3 Types of Metal on Metal Hip Prostheses during 2 Decades of Use. *Clin Orthop* 329S:S128-S140, 1996.
204. Schmalzried TP, Fowble VA, Ure KJ, et al: Metal on Metal Surface Replacement of the Hip: Technique, Fixation, and Early Results. *Clin Orthop* 329S:S106-S114, 1996.
205. Schmalzried TP, Szuszczewicz ES, Akizuki KH, et al: Factors Correlating with Long Term Survival of McKee-Farrar Total Hip Prostheses. *Clin Orthop* 329S:S48-S59, 1996.
206. Amstutz HC, Fowble V, Schmalzried TP, et al: Short-Course Indomethacin Prevents Heterotopic Ossification in a High-Risk Population Following Total Hip Arthroplasty. *J Arthrop* 12:126-132, 1997.
207. Hatzigrigoris P, Amstutz HC: Cementless Hip Arthroplasty Utilizing Smooth Stems. *Acta Orthop Hellenica* 48(1):27-37, 1997.
208. Hatzigrigoris P, Amstutz HC: Surface Arthroplasty of the Hip. *Acta Orthop Hellenica* 48(1): 15-26, 1997.
209. Lieberman JR, Wollaeger J, Dorey F, et al: The Efficacy of Prophylaxis with Low-Dose Warfarin for Prevention of Pulmonary Embolism Following Total Hip Arthroplasty. *J Bone*

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

- Joint Surg 79A(3):319-325, 1997.
210. Schmalzried TP, Campbell P, Schmitt AK, et al: Shapes and Dimensional Characteristics of Polyethylene Wear Particles Generated In Vivo by Total Knee Replacements Compared to Total Hip Replacements. *J Biomed Mat'l Res* 38:203-210, 1997.
 211. Schmalzried TP, Noordin S, Amstutz HC: Update on Nerve Palsy Associated With Total Hip Replacement. *Clin Orthop*, (344):188-206, November 1997.
 212. Amstutz HC, Grigoris P, Dorey FJ: Evolution and Future of Surface Replacement of the Hip. *J of Ortho Science* 3(3):169-186: 1998.
 213. Schmalzried TP, Fowble VA, Amstutz HC: The Fate of Pelvic Osteolysis After Reoperation: No Recurrence with Lesional Treatment. *Clin Orthop*, (350):128-137, May 1998.
 214. Schmalzried TP, Szuszczewicz ES, Northfield MR, et al: Quantitative Assessment of Walking Activity in Joint Replacement Patients. *J Bone Joint Surg*, 80-A(1):54-59, January 1998.
 215. Ure KJ, Amstutz HC, Nasser S, et al: Direct-Exchange Arthroplasty for the Treatment of Infection after Total Hip Replacement. *J Bone Joint Surg* 80-A(7):961-968, July 1998.
 216. Amstutz HC, Sparling EA, Grigoris P: Surface and Hemi-Surface Replacement Arthroplasty. *Seminars in Arthroplasty*, Vol 9 (3):261-271, 1998.
 217. Doorn PF, Campbell PA, Worrall J, et al: Metal Wear Particle Characterization From Metal on Metal Total Hip Replacements: Transmission Electron Microscopy Study of Periprosthetic Tissues and Isolated Particles. *J Biomed Mater Res*, 42(1):103-111, October 1998.
 218. Amstutz HC, Sparling EA: New Techniques in Hip Joint Replacement. *Gauchers Clinical Perspective*, Vol 6 (2):15-21, 1998.
 219. Amstutz HC, Sparling EA, Grigoris P, et al: Surface Replacement: The Hip Replacement of the Future. *Intl Hip* 8(4):187-207, 1998.
 220. Zahiri CA, Schmalzried TP, Amstutz HC: Assessing the Activity of Total Joint Replacement in Patients. *J Arthrop* 13(8):890-895, December 1998.
 221. Amstutz HC, Sparling EA: Innovations in Total Hip Replacement for the 21st Century. *Resident and Staff Physician* 45(8):33-46, 1999.
 222. Schmalzried TP, Brown IC, Amstutz HC, et al: The Role of Acetabular Component Screw Holes and/or Screws in the Development of Pelvic Osteolysis. *Proc Inst Mech Eng [H]*, 213(2):147-153, 1999.
 223. McClung C, Zahiri C, Higa J, et al: Relationship Between Body Mass Index and Activity in Hip or Knee Arthroplasty Patients. *J Orthop Research* 18(1):35-39, January 2000.
 224. Campbell PA, Mirra J, Amstutz HC: Viability of Femoral Heads Treated with Resurfacing Arthroplasty. *J Arthroplasty* 15(1): 120-122, January 2000.
 225. Beaulé PE, Amstutz HC: Hemiresurfacing Arthroplasty for Osteonecrosis of the Hip. *Operative Techniques in Orthopaedic Surgery*, 10(2): 123-132, 2000.

HARLAN CABOT AMSTUTZ, M.D.

Curriculum Vitae

226. Mont MA, Jones LC, Sotereanos DG, Amstutz HC, Hungerford DS. Understanding and Treating Osteonecrosis of the Femoral Head. Instructional Course Lecture, 49:169-85, 2000.
227. Amstutz HC, Dorey, F: Are recommendations for the Routine Use of Pharmacological Thromboprophylaxis in Total Hip Arthroplasty Justified? JBJs, 82-B(4):473-474, May 2000.
228. Prasad R, Amstutz HC, Sparling EA: Use of a Magnet to Retrieve a Broken Scalpel Blade. J Arthroplasty, 15(6):806-8, September 2000.
229. Dorr LD, Amstutz HC, Mallory TH, Ranawat CS, Sedel L, Engh CA Sr: Hip Challenges: What Would You Do? Orthopedics, 23(9):997-9, September 2000.
230. Amstutz HC: Arthroplasty Options for Advanced Osteonecrosis. Orthopaedics 23(9): 927-928, September 2000.
231. Amstutz, HC: Innovations in Design and Technology: The Story of Hip Arthroplasty. Clin Orthop (378): 23-30, September 2000.
232. Schmalzried TP, Shepherd EF, Dorey FJ, Jackson WO, dela Rosa M, et al: The John Charnley Award. Wear is a Function of Use, Not Time. Clin Orthop, (381):36-46, December 2000.
233. Beaulé PE, Schmalzried TP, Campbell PA, Dorey FJ, Amstutz HC: Duration of Symptoms and Outcome of Hemiresurfacing for Hip Osteonecrosis. Clin Orthop, (385):104-117, April 2001.
234. Amstutz HC: History of Metal-on-Metal Articulations Including Surface Arthroplasty of the Hip. C Rieker, S Oberholzer, U Wyss (eds). World Tribology Forum in Arthroplasty. Hans Huber Bern, 113-123, 2001.
235. Amstutz HC, Beaulé PE, LeDuff, M: Hybrid Metal on Metal Surface Arthroplasty of the Hip. Operative Techniques in Orthopaedics, 11(4):1-10, October 2001.
236. Beaulé PE, Schmalzried TP, Udomkiat P, Amstutz HC: Jumbo Femoral Head for the Treatment of Recurrent Dislocation Following Total Hip Replacement. JBJs, 84-A(2):256-63, February 2002.
237. Beaulé PE, Campbell P, Walker P, Schmalzried TP, et al: Polyethylene Wear Characteristics *In Vivo* and in a Knee Simulator. J Bone Material Research, 60(3):411-419, June 2002.
238. Campbell PA, Wang M, Amstutz HC, Goodman SB: Positive Cytokine Production in Failed Metal-on-Metal Total Hip Replacements. Acta Ortho Scand, 73(5):506-512, October 2002.
239. Skipor A, Campbell P, Patterson L, Amstutz HC, Jacobs J: Serum and Urine Metal Levels in Patients with Metal-on-Metal Surface Replacements of the Hip. J. Mat Sci 13:1227-1234, 2002.
240. Beaulé PE, Roussignol X, Schmalzried TP, Udomkiat P, Amstutz HC, Dujardin FH: Reprise de Prothèses Totales de Hanche Instables par Prothèses Tripolaires (Tripolar Arthroplasty for Recurrent Total Hip Prosthesis Dislocation). Revue de Chirurgie Orthopédique, 89:242-249, 2003
241. Beaulé PE, LeDuff MJ, Amstutz HC: Hemiresurfacing Arthroplasty of the Hip for Failed Free-Vascularized Fibula Graft: A Case Report. Journal of Arthroplasty, 18:519-523, 2003.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

242. Catelas I, Campbell PA, Dorey F, Frausto A, Mills BG, Amstutz HC: Semi-Quantitative Analysis of Cytokines in MM THR Tissues and their Relationship to Metal Particles. *Biomaterials*, 24:4785-4797, 2003.
243. Beaulé PE, LeDuff MJ, Dorey FJ, Amstutz HC: Fate of Cementless Acetabular Components Retained During Revision Total Hip Arthroplasty. *JBJS*. 2003 Dec;85(12):2288-2293.
244. Beaulé PE, Dorey FJ, LeDuff MJ, Gruen T, Amstutz HC: Risk Factors Affecting Outcome of Metal on Metal Surface Arthroplasty of the Hip. *Clinical Orthopaedics*. 2004 Jan;(418):87-93.
245. Amstutz HC, Beaulé PE, Dorey FJ, LeDuff MJ, Campbell PA, Gruen TA: Metal-on-Metal Hybrid Surface Arthroplasty: Two to Six-Year Follow-Up Study. *JBJS*, Jan 2004, 86A(1):28-39.
246. Beaulé PE, Amstutz HC. Management of Ficat Stage III and IV Osteonecrosis of the Hip. *JAAOS*. 2004 Mar-Apr;12(2):96-105.
247. Beaulé PE, Ebramzadeh E; LeDuff M; Prasad R; Amstutz HC. Cementing a Liner into a Stable Cementless Acetabular Shell: The Double-Socket Technique. *JBJS*. 2004 May;86A(5):929-934.
248. Amstutz HC, Campbell PA, Le Duff MJ: Fracture of the Neck of the Femur After Surface Arthroplasty of the Hip. *JBJS*. 2004 Sep; 86A(9):1874-1877.
249. Beaulé PE, Lee JL, Le Duff M, Amstutz HC, Ebramzadeh E. Orientation of the Femoral Component in Surface Arthroplasty of the Hip. A Biomechanical and Clinical Analysis. *JBJS*. 2004 Sep;86A(9):2015-21,.
250. Amstutz HC, LeDuff MJ, Beaulé PE: Prevention and Treatment of Dislocation after Total Hip Replacement Using Large Diameter Balls. *CORR*. 2004 Dec;(429):108-116.
251. Beaulé PE, LeDuff M, Campbell P, Dorey FJ, Park SH, Amstutz HC: Metal-on-Metal Cemented Femoral Head Surface Arthroplasty. A 7 to 10 Year Follow-up Study. *J Arthroplasty*. 2004 Dec;19(8 Suppl 3):17-22.
252. Beaulé PE, Amstutz HC, Le Duff M, Dorey FJ: Surface Arthroplasty for Osteonecrosis of the Hip: Hemi versus Metal on Metal Hybrid Resurfacing. *J Arthroplasty*. 2004 Dec;19(8 Suppl 3):54-58.
253. Ebramzadeh E, Beaulé PE, Culwell J, Amstutz HC: Fixation Strength of an All-Metal Acetabular Component Cemented into an Acetabular Shell: A Biomechanical Analysis. *J Arthroplasty*, 2004 Dec;19(8 Suppl 3):45-49.
254. Jacobs JJ, Skipor A, Campbell P, Hallab N, Urban R, Amstutz HC: Can Metal Levels be Used to Monitor Metal on Metal Hip Replacements? *J Arthroplasty*, 2004 Dec;19(8 Suppl 3):59-65.
255. Amstutz HC: Bernhard Georg Weber (1927-2002). *J Arthroplasty*, 2004 Dec;19(8 Suppl 3):3-4.
256. Amstutz HC, Ebramzadeh E, Sarkany A, LeDuff M, Rude R: Preservation of Bone Mineral Density of the Proximal Femur Following Hemisurface Arthroplasty. *Orthopaedics*, 2004 Dec;27(12):1266-1271.
257. Beaulé PE, Krismer M, Mayrhofer P, Wanner S, Le Duff M, Mattesich M, Stoeckl B, Amstutz HC, Biedermann R: EBRA-FCA for Measurement of Migration of the Femoral Component in Surface Arthroplasty of the Hip. *JBJS*, 2005 May; 87B(5):741-744.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

258. Amstutz HC, Su EP, Le Duff MJ: Surface Arthroplasty in Young Patients with Hip Arthritis Secondary to Childhood Disorders. *Orthopaedic Clinics of North America*, 2005 April, 36(2):223-230.
259. Amstutz HC, Le Duff MJ. Background of metal-on-metal resurfacing. *Proc Inst Mech Eng [H]*. 2006 Feb;220(2):85-94.
260. Beaulé, PE, Dorey FD, Hoke R, Le Duff MJ, Amstutz HC: The Value of Patient Activity Level in the Outcome of Total Hip Arthroplasty. *Journal of Arthroplasty*, 2006 Jun; 21(4):547-52.
261. Amstutz HC, Beaulé PE, Dorey FJ, Le Duff MJ, Campbell PA, Gruen TA: Metal-on-Metal Hybrid Surface Arthroplasty. *Surgical Technique. JBJS*, 2006 Sep; 88A(Supp 1 Part 2):234-249.
262. Campbell P, Beaulé PE, Ebramzadeh E, Le Duff M, De Smet K, Lu Z, Amstutz HC: The John Charnley Award: A Study of Implant Failure in Metal-on-Metal Surface Arthroplasties. *CORR*, 2006 Dec; (453):35-46.
263. Amstutz HC. Hip Resurfacing Arthroplasty. *J Am Acad Orthop Surg*, 2006; 14:452-3.
264. Amstutz HC, Antoniadou JT, Le Duff MJ. Results of Metal-on-Metal Hybrid Hip Resurfacing for Crowe Type-I and II Developmental Dysplasia. *JBJS*, 2007 Feb; 89A(2):339-346.
265. Ball ST, Le Duff MJ, Amstutz HC. Early Results of Conversion of a Failed Femoral Component in Hip Resurfacing Arthroplasty. *JBJS*, 2007 Apr; 89A(4):735-741.
266. Amstutz HC, Campbell P, Dorey, FJ. The Effects of Technique Changes on Aseptic Loosening of the Femoral Component in Hip Resurfacing. Results of 600 Conserve[®] Plus With a 3-9 Year Follow-up. *Journal of Arthroplasty*, 2007; 22:481-9.
267. Amstutz HC, Campbell P, Le Duff MJ. Metal-on-Metal Hip Resurfacing: What Have We Learned? *AAOS Instructional Course Lecture*, 2007; 56:149-61.
268. Amstutz HC, Ball S, Le Duff MJ, Dorey F. Hip Resurfacing for Patients Under 50 Years of Age. Results of 350 Conserve Plus with a 2-9 Year Follow-up. *Clin Orthop Rel Res*, 2007; 460:159-64.
269. Ball ST, Pinsornsak P, Amstutz HC, Schmalzried TP: Extended Travel After Hip Arthroplasty Surgery. Is it Safe? *J of Arthroplasty*, 2007 Sep; 22(6 Suppl 2):29-32.
270. Le Duff M, Amstutz HC, Dorey F. Metal-on-Metal Hip Resurfacing for Obese Patients. *JBJS*, 2007; 89A:2705-11.
271. Mont M, Seyler T, Ulrich S, Beaulé P, Boyd H, Greco M, Goldberg V, Kennedy W, Marker D, Schmalzried T, Sparling E, Vail T, Amstutz H. Effect of Changing Indications and Techniques on Total Hip Resurfacing. *CORR*, 2007; 465:63-70.
272. Amstutz HC. Present State of Metal-on-Metal Hybrid Hip Resurfacing. *J of Surgical Orthopaedic Advances*, 2008 Spring; 17(1):12-16.
273. Amstutz HC, Le Duff M. Eleven Years of Experience with Metal-on-Metal Hybrid Hip Resurfacing: A Review of 1,000 Conserve Plus. *J of Arthroplasty*, 2008; E-pub July 18, 2008.
274. Amstutz HC, Le Duff MJ, Harvey N, Hoberg M. Improved Survivorship of Hybrid Metal-on-Metal Hip Resurfacing with Second-Generation Techniques for Crowe I & II Developmental Dysplasia of the Hip. *JBJS* 2008;90 Suppl 3:12-20.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

275. Hoberg M, Le Duff M, Amstutz HC. Metal-on-Metal Hybrid Hip Resurfacing: Development and Current State. *Orthopedics* 2008; 37(7):679-84.
276. Amstutz HC, Le Duff M. Cementing the Metaphyseal Stem in Metal-on-Metal Resurfacing: When and Why. *CORR* 2009; 467(1): 79-83.
277. Amstutz HC, Le Duff M. Hip Resurfacing Arthroplasty. *American Academy of Orthopaedic Surgeons Web site: Orthopaedic Knowledge Online* 2009; 7(1):
<http://www5.aaos.org/oko/description.cfm?topic=ADU030>. Accessed January 26, 2009.

PUBLISHED ABSTRACTS

1. Wilson Jr. PD, Amstutz HC: Dysgenesis of the Proximal Femur and Its Surgical Management. *J Bone Joint Surg* 43A:602, 1961.
2. Amstutz HC: Skeletal Manifestations and Treatment of Gaucher's Disease. *J Bone Joint Surg* 45A:659, 1963.
3. Amstutz HC: Prognosis for Growth and Development of Congenital Anomalies of the Lower Extremities (Exhibit). *J Bone Joint Surg* 50A:1255, 1968.
4. Wilson Jr. PD, Amstutz HC, Czerniecki A: Bioengineering (Biomaterials) Analysis of Total Hip Replacements. *J Bone Joint Surg* 51A:1668, 1969.
5. Wilson Jr. PD, Amstutz HC, Czerniecki A: Total Hip Replacement - A Preliminary Report on Fifty Patients Operated on Between August 1, 1967 and December 1, 1968. *J Bone Joint Surg* 51A:1668, 1969.
6. Amstutz HC: Indication for Total Prosthetic Replacement of the Hip (Discussion). *J Bone Joint Surg* 52B:772, 1970.
7. Amstutz HC: Excision of the talus for Equinovarus Deformity of the Feet. *Proc and Reports of Councils and Assoc (Discussion)*. *J Bone Joint Surg* 52B:791, 1970.
8. Amstutz HC: Natural History and Treatment of Congenital Absence of the Fibula. *Proc Amer Acad Orthop Surg*, *J Bone Joint Surg* 54A:1331, 1972.
9. Amstutz HC: Knee Replacement: Preliminary and Kinematic Analysis of Geometric and Polycentric Replacements. *Arth and Rheum* 16:533, 1973.
10. Amstutz HC: The Diagnosis and Management of Infections in Total Hip Arthroplasty. *J Bone Joint Surg* 55A:1324, 1973.
11. Amstutz HC: One-Stage Femoral Lengthening. *J Bone Joint Surg* 56A:196, 1974.
12. Clarke I, Amstutz HC: "Super Finished" Prosthetic Bearing Surfaces - How Good Are They? *J Bone Joint Surg* 56A:847, 1974.
13. Markolf K, Amstutz HC: Strains in Hip Prostheses under Simulated Static Femoral Loadings. *J Bone Joint Surg* 56A:849, 1974.
14. Schurman DJ, Johnson BL, Amstutz HC: Knee Joint Infections: A Study of the Influence of

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

- Antibiotics, Metal Debris, Hemorrhage and steroids in a Rabbit Model. *J Bone Joint Surg* 56A: 850, 1974.
15. Amstutz HC: Trapezoidal-28 Total Hip Replacement. *Orthop Dig* 36:16, 1975.
 16. Amstutz HC, Matos M: Trapezoidal-28 Hip Replacement. Preliminary Results. *J Bone Joint Surg* 57A:1024, 1975.
 17. Amstutz HC, Sakai DN: Rehabilitation Literature. *Orthop Dig* 36:327, 1975.
 18. Amstutz HC, Sakai DN: Total Joint Replacement for Ankylosed Hips. *Orthop Dig* 36:21, 1975.
 19. Matos M, Amstutz HC, Finerman GAM: Myositis Ossificans following Total Hip Replacement. *J Bone Joint Surg* 57A:137, 1975.
 20. Amstutz HC: Operating Room Environment and Deep Wound Sepsis following Joint Replacement at UCLA. Workshop of Control of Operating Room Airborne Bacteria. Committee on Prosthetic-Orthotic Education. Assembly of Life Sciences - National Research Council. National Academy of Sciences, Washington, D.C., 23-32, Nov. 8-10, 1976.
 21. Amstutz HC, Clarke IC: Total Hip Articular Replacement by Internal Eccentric Shells. *Orthop Trans* 119:280, 1976.
 22. Clarke I, Amstutz HC: Validity of X-Ray Wear Measurements. *Orthop Trans* 80, 1976.
 23. Clarke IC, Schurman DJ, Amstutz HC: The Nature of Living Joint-Surfaces. *Orthop Trans* 101, 1976.
 24. Cracchiolo A, Finerman G, Amstutz HC: Comparative Clinical Analysis of Polycentric and Geometric Bicondylar Knee Replacements. *J Bone Joint Surg* 58A:731, 1976.
 25. Markolf KL, Amstutz HC: In Vitro Measurements of Bone/Acrylic Interface Pressures during Femoral Prosthesis Removal. *Orthop Trans* 188, 1976.
 26. Markolf KL, Mensch JS, Amstutz HC: Effects of the Ligaments and Menisci of Knee Stiffness and Laxity - An In Vitro Sectioning Study. *Orthop Trans* 187, 1976.
 27. McKellop HA, Clarke IC, Markolf KL, et al: The Importance of Fluid Absorption, Creep and Lubricant in Wear Measurements of Polymers for Prosthetic Bearings. *Orthop Trans* 82, 1976.
 28. McNeice GM, Amstutz HC: Stresses in Prostheses Stems and Supporting Acrylic - A Finite Element Study of Hip Replacement. *Orthop Trans* 172, 1976.
 29. Amstutz HC, Clarke IC: Total Hip Articular Replacement by Internally Eccentric Shells. *Orthop Trans* 1(1):40, 1977.
 30. Amstutz HC, Clarke IC, Graff-Radford A: Surface Replacement of the Hip: Influence of Design on Clinical Results. *Orthop Trans* 1(2):242, 1977.
 31. Amstutz HC, Kass V: Management of Infections after Total Hip Arthroplasty. *Orthop Trans* 1(1):68, 1977.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

32. Amstutz HC, Kass V, Gruen T, et al: Technetium Diphosphonate Bone Scanning in Total Hip Failure. Trans 23rd Annual Meeting Orthop Res Soc, Las Vegas, 180, 1977.
33. Clarke IC, Amstutz HC: Validity of X-Ray Wear Measurements. Orthop Trans 1(1):55, 1977.
34. Clarke I, Black K, Amstutz HC: Range of Motion in Natural and Surface-Replacement types of Hip Joint. Trans 23rd Annual Meeting Orthop Res Soc, Las Vegas, 155, 1977.
35. Clarke I, Matos M, Amstutz HC: Problems in Radiographic Analysis of Hip-Component Orientation. Trans 23rd Annual Meeting Orthop Res Soc, Las Vegas, 154, 1977.
36. Clarke IC, Schurman DJ, Amstutz HC: The Nature of Living Joint-Surfaces. Orthop Trans 1(1):58, 1977.
37. Cracchiolo A, Amstutz HC, Finerman G: A Prospective Clinical Analysis Comparing Polycentric and Geometric Knee Replacement with 2 to 4 Years Follow-Up. Arth and Rheu 20(1):112, 1977.
38. Finerman GAM, Horacek KS, Amstutz HC: Evaluaiton of Failures of Geometric Knee Arthroplasty. Orthop Trans 1(2):248, 1977.
39. Kass V, Clarke I, Gruen T, et al: Elliptical Contour Representation Method for the Proximal Femur Feometry. Trans 23rd Annual Meeting Orthop Res Soc, Las Vegas, 62, 1977.
40. Markolf KL, Amstutz HC, Finerman GM: Quantitative In Vitor Measurements of Knee Stiffness and Laxity after Prosthetic Replacement. Orthop Trans 1(2):213, 1977.
41. Markolf K, Clarke I, Amstutz HC: Mechanical strength of the Resurfaced Femoral Head - An Alternative to Conventional Total Hip Replacement. Trans 23rd Annual Meeting Orthop Res Soc, Las Vegas, 243, 1977.
42. McKellop HA, Clarke IC, Markolf KL, et al: The Importance of Fluid Absorption, Creep and Lubricant in Wear Measurements of Polymers for Prosthetic Bearings. Orthop Trans 1(1):55, 1977.
43. McKellop H, Markolf K, Clarke I, et al: Wear Screening Tests with Potentially Superior Prosthetic Bearing Materials. Trans 23rd Annual Meeting Orthop Res Soc, Las Vegas, 163, 1977.
44. Amstutz HC, Graff-Radford A, Gruen T, et al: THARIES Surface Replacements: A Review of the First 100 Cases. Orthop Trans 2(2):211, 1978.
45. McKellop HA, Clarke IC, Markolf KL, et al: High Wear Rates with Delrin-150 - A Clinical Hazard? Orthop Trans 2(1):85, 1978.
46. McKellop HA, Phillips W, Clarke IC, et al: Sialon Ceramic as a Prosthetic Joint Material - Wear Properties under Physiological Conditions. Orthop Trans 2(1):83, 1978.
47. Smith RK, Amstutz HC: Total Hip Replacement Following Failed Femoral Hemiarthroplasty. Orthop Trans 2(2):251, 1978.
48. Amstutz HC, Sew Hoy A: UCLA Total Shoulder Replacement. Orthop Trans 3:339, 1979.
49. Bargar WL, Cracchiolo A, Amstutz HC: Results of Hinge Total Knee Prosthesis in Treating Severly Disabled Patients and Patients with Failed Total Knee Replacements. Orthop Trans 3:267, 1979.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

50. Bargar WL, Moreland JR, Markolf KL, et al: In Vivo Stability Testing of Post-Meniscectomy Knees. Orthop Trans 3:181, 1979.
51. Hedley AK, Amstutz HC: Porous Ingrowth of a Canine Surface Replacement of the Hip. Orthop Trans 3:308, 1979.
52. Markolf KL, Hirschowitz D, Amstutz HC: Mechanical Stability of the Greater Trochanter Following Osteotomy and Reattachment by Wiring. Orthop Trans 3:151, 1979.
53. McKellop H, Clarke I, Markolf K, et al: Polyethylene Wear in Non-Conforming Contact. Orthop Trans 3:173, 1979.
54. McKellop H, Clarke I, Markolf K, et al: Wear Properties of New High-Strength Alloys for Prosthetic Joints. Orthop Trans 3:172, 1979.
55. Miller B, Griffin G, Clarke I, et al: Troubleshooting Muller Radiographic Wear Measurements. Orthop Trans 3:172, 1979.
56. Sew Hoy A, Gruen T, Hirschowitz D, et al: The UCLA Total Shoulder Replacement. Orthop Trans 3:298, 1979.
57. Amstutz HC: Surface Replacement: Orthop Trans 4:140, 1980.
58. Dutton RO, Hedley AK, Amstutz HC: THARIES Surface Replacement in Advanced Osteonecrosis of the Hip. Orthop Trans 4:357, 1980.
59. Hedley AK, Amstutz HC: The Effects on the Femoral Head of Compromised Blood Supply with Surface Replacement of the Hip: A Canine Model. J Bone Joint Surg 62B(2):284, 1980.
60. Markolf KL, Bargar WL, Shoemaker SC, et al: Stability of the Loaded Knee - An In Vitro Study. Orthop Trans 4:143, 1980.
61. Moreland JR, Gruen TA, Mai LL, et al: Aseptic Loosening of Total Hip Replacement. Incidence and Significance. Orthop Trans 4:143, 1980.
62. Sew Hoy AL, Hedley AK, Amstutz HC: The Acetabular Cement-Bone Interface - A Canine Study. Orthop Trans 4:257, 1980.
63. Amstutz HC: Materials and stem Design of Total Hip Replacement. Orthop Trans 3(5):357, 1981.
64. Amstutz HC: The Value of Compression and Containment Fixation Techniques and of Reduced Weight-Bearing on Loosening and Interface Durability of Total Hip Sockets. Orthop Trans 3(5):463, 1981.
65. Amstutz HC, Thomas BJ, Mai LL: Total Hip Articular Replacement by Internal Eccentric Shells. Orthop Trans 3(5):374, 1981.
66. Cherney DL, Amstutz HC: Deep Skepsis after Total Hip Replacement. Orthop Trans 1(5):74, 1981.
67. Cherney DL, Amstutz HC: Total Hip Replacement in Previously Septic Hip. Orthop Trans 3(5):437, 1981.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

68. Kochan A, Markolf KL, Amstutz HC, et al: Measurement of A-P Stability in Patients with Documented Absence of the Anterior Cruciate Ligament. Orthop Trans 2(5):198, 1981.
69. McKellop H, Markolf KL, Amstutz HC: Comparative Wear of Conventional and Carbon Fiber-Reinforced UHMW Polyethylenes. Orthop Trans 2(5):297, 1981.
70. Moreland JR, Amstutz HC: Loosening Rates at UCLA. Orthop Trans 3(5):350, 1981.
71. Moreland JR, Espirito ET, Amstutz HC: Total Joint Replacement for Ankylosed Hips. Orthop Trans 3(5):421, 1981.
72. Amstutz HC, Jinnah RH, Thomas BJ, et al: The Evolution and Results of Trapezoidal-28 Hip Replacement. Orthop Trans 6:333, 1982.
73. Amstutz HC, Thomas BJ, Jinnah RH, et al: Hip Resurfacing Versus Conventional Hip Replacement for Primary Osteoarthritis. Orthop Trans 6(3):476, 1982.
74. Amstutz HC, et al: Surface Replacement of Hip THARIES System. Geriatrics Digest 7, 1982.
75. Hedley AK, Schmidt I, Coster I, et al: Bone Ingrowth Fixation of New Design Acetabular Components. Orthop Trans 6:272, 1982.
76. Kochan A, Markolf KL, Amstutz HC, et al: Knee Stiffness and Laxity Following Major Ligamentous Reconstruction. Orthop Trans 6:216, 1982.
77. Ma S, Amstutz HC, Jinnah RH, et al: Revision of Aseptic Loose Total Hip Replacements. Orthop Trans 6:334, 1982.
78. Ma S, Kabo M, Amstutz HC: Frictional Torques: Relationship to Loosening in Surface and Conventional Hip Replacements. Orthop Trans 6:255, 1982.
79. Amstutz HC: Hip Resurfacing. J Orthop Res 1(2):230-231, 1983.
80. Amstutz HC: Restoration of Functional Biomechanics in Reconstructive Hip Surgery. J Orthop Res 1(2):205-206, 1983.
81. Amstutz HC, Jinnah R, Clarke I, et al: DANA Shoulder Replacement: 2-6 Year Results. Orthop Trans 7:498, 1983.
82. Amstutz HC, Thomas B: Revision Surgery for Failed Surface Arthroplasty of the Hip: Two- to Six- Year Results. Orthop Trans 7:514, 1983.
83. Amstutz HC, Tooke SM: Hemisurface Replacement for Osteonecrosis of the Hip. Orthop Trans 7:548, 1983.
84. Grogan TJ, Rollins JS, Amstutz HC: Deep Sepsis Following Total Knee Arthroplasty: Ten-Year Experience at UCLA Medical Center. Orthop Trans 7:420, 1983.
85. Jinnah RH, Amstutz HC, Tooke M, et al: The UCLA Charnley Experience: A 4-13 Year Follow-Up. Orthop Trans 7:395, 1983.
86. Kim WC, Grogan T, Amstutz HC, et al: Comparison of THARIES and Conventional THR in Patients of Age 30 and Younger. Orthop Trans 7:389, 1983.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

87. Kochan A, Markolf K, Amstutz HC: Anterior-Posterior Stiffness and Laxity of the Knee After Major Ligamentous Reconstruction - A 36-Month Follow-Up. *Orthop Trans* 7:281, 1983.
88. Rollins JS, Amstutz HC: High Tibial Osteotomy for Medical Gonarthrosis. *Orthop Trans* 7:415, 1983.
89. Thomas BJ, Amstutz HC: Results of Conventional and Surface Arthroplasty for Primary Osteoarthritis of the Hip. *Orthop Trans* 7:239, 1983.
90. Tooke MT, Moreland J, Amstutz HC: Results of Total Hip Replacement in Patients with CDH. *Orthop Trans* 7:478, 1983.
91. Amstutz HC, Tooke SM: Results of Transtrochanteric Rotational Osteotomy for Femoral Head Osteonecrosis. *Orthop Trans* 8:479, 1984.
92. Amstutz HC, Tooke SM: Treatment of Osteonecrosis of the Hip with Sugioka Osteotomy. *Orthop Trans* 8:478, 1984.
93. Jinnah RH, Amstutz HC, Dalseth T: Results of DANA Shoulder Replacement. *Orthop Trans* 8:494, 1984.
94. Kim WC, Amstutz HC, O'Carroll PF, et al: The John Charnley Award Paper. Porous Ingrowth in Canine Resurfacing Hip Arthroplasty, Analysis of Results with up to a Two Year Follow-Up. *Orthop Trans* 8:202, 1984.
95. Kim WC, Hedley AK, Amstutz HC, et al: Results of Porous Ingrowth: Canine Hip Resurfacing Arthroplasty. *Trans 30th Annual Meeting Orthop Res Soc, Georgia* 176, 1984.
96. O'Carroll PF, Amstutz HC, Kim WC, et al: Excision Arthroplasty for Failed Total Hip Replacement. *Orthop Trans* 8:489, 1984.
97. Ouzounian TJ, Thompson L, Grogan TJ, et al: Evaluation of Musculoskeletal Sepsis Utilizing Indium-111 WBC Imaging. *Orthop Trans* 8:498, 1984.
98. Amstutz HC, Dorey F: Hip Resurfacing - Prognostic Determinants for Durability. A Ten Year Experience with 584 Cases. *The 49th Annual Meeting of the Amer Rheu Assoc* S66, 1985.
99. Amstutz HC, Jinnah R, Dalseth T: DANA Total Shoulder Replacement: 1-7 Year Results. *The 49th Annual Meeting of the Amer Rheu Assoc* S15, 1985.
100. Amstutz HC, O'Carroll PF, Kabo M, et al: Comparative Experience with Canine and Human Acetabular Components. *Orthop Trans* 9(2):208, 1985.
101. Kim WC, Nottingham P, Luben RA, et al: Detection of Osteoclast-Activating Factor in Membranes Removed at Revision Total Hip Arthroplasties. *Orthop Trans* (9):276, 1985.
102. Kim WC, O'Carroll PF, Kabo JM, et al: Effect of Acetabular Compliance in Canine Bone Ingrowth and Remodeling. *Orthop Trans* 9:285, 1985.
103. O'Carroll PF, Kim WC, Kabo M, et al: Membrane Formation in Response to Acrylic and Titanium in Similar Stress Environment. *Orthop Trans* 9:252, 1985.
104. Amstutz HC, Kilgus DJ, Thomas BJ, et al: Evaluation of Bone Ingrowth by Technetium

HARLAN CABOT AMSTUTZ, M.D.

Curriculum Vitae

- Diphosphonate and Sulfur Colloid Scanning in Porous Hip Resurfacing. Orthop Trans 10(3):549, 1986.
105. Amstutz HC, Nottingham PB, Kim WC, et al: Cemented Reconstruction in Acetabular Bone Stock Deficient Aseptic Loose Total Hip Replacement. Orthop Trans 10(3):478, 1986.
 106. Ellman H, Jinnah R, Amstutz H: Experience with the DANA Hooded Component for Cuff Deficient Shoulder Arthroplasty. Orthop Trans 10(2):217, 1986.
 107. Hanker G, Amstutz H: Hip Arthroplasty in Sickle Cell Disease. Orthop Trans 10(3):488, 1986.
 108. Hermens K, Kim W, O'Carroll P, et al: Bone Morphogenetic Protein and Cancellous Graft Use in Porous-Surfaced Interface Voids. Orthop Trans 10(2):401, 1986.
 109. Hermans KA, Kim WC, Rechl H, et al: Stress Shielding in a Stemmed Bone Ingrowth Hip Resurfacing Arthroplasty. Orthop Trans 10(2):343, 1986.
 110. Kim W, Hermens K, Rechl H, et al: Effects of Irradiation and Radiation Shielding on Canine Porous Bone Ingrowth Hip. Orthop Trans 10(2):400, 1986.
 111. Amstutz HC, Friscia DA, Carney BT, et al: The UCLA Experience with Warfarin as Prophylaxis for Thromboembolic Disease in Hip Replacement Patients. Orthop Trans 11(3):462, 1987.
 112. Amstutz HC, Kabo M, Hermens K, et al: Porous Surface Replacement of the Hip with Chamfer Cylinder Design. Orthop Trans 11(1):59, 1987.
 113. Amstutz HC, Kabo M, More RC: The TE Press-Fit Femoral Prosthesis. Orthop Trans 11(3):507, 1987.
 114. Amstutz HC, Kim WC, Kabo JM, et al: Modes of Failure in Hip Resurfacing Arthroplasty. Trans of the 33rd Annual Meeting of the Orthop Res Society, 506, 1987.
 115. Amstutz HC, Nottingham PB, Kim WC, et al: Cemented Reconstruction in Acetabular Bone Stock deficient Aseptic Loose Total Hip Replacements. Orthop Trans 11(3):557, 1987.
 116. Amstutz HC, Thomas BJ, Kabo JM, et al: The DANA Shoulder Replacement Design Rationale and Long-Term Results. Orthop Trans 11(3):467, 1987.
 117. Amstutz HC, Yao J, Kilgus D, et al: Long-Term Results of T-28:TR-28 Hip Arthroplasty. Orthop Trans 11(3):450, 1987.
 118. Friscia DA, Carney BT, Dorey F, et al: The UCLA Experience with Warfarin as Prophylaxis for Thromboembolic Disease in Hip Replacement Patients. Orthop Trans 11(3):559, 1987.
 119. Grauer JD, Amstutz HC, Kim WC, et al: Excision Arthroplasty of the Hip. Orthop Trans 11(3):559, 1987.
 120. Kilgus DJ, Amstutz HC, Wolgin MA: Joint Replacement for Ankylosed Hips: Long-Term Follow-Up. Orthop Trans 11(3):451, 1987.
 121. Ouzounian TJ, Amstutz HC: Comparison of Metal Backed Versus Non-Metal Backed Surface Replacements. Orthop Trans 11(3):559, 1987.

HARLAN CABOT AMSTUTZ, M.D.

Curriculum Vitae

122. Amstutz HC, Kilgus DJ, Kabo JM, et al: Comparison of Porous and Cemented Surface Replacement with Two to Five Years Follow-Up. *Orthop Trans* 12(3):690, 1988.
123. Kim W, Nottingham P, Luben R, et al: Mechanism of Osteolysis in Aseptic Loosen Total Hips. *Orthop Trans* 12(2):403, 1988.
124. Kody MH, Kabo JM, Markolf KL, et al: Initial Fixation Strength of Screw Ring Acetabular Components. *Orthop Trans* 12(2):465, 1988.
125. More RC, Amstutz HC, Moreland JR, et al: Acetabular Reconstruction with a Threaded Screw-Ring Prosthesis for Failed Total Hip Replacement. *Orthop Trans* 12(3):661, 1988.
126. Schmalzried TP, Amstutz HC, Dorey FJ: Lower Extremity Nerve Palsies Associated with Total Hip Arthroplasty. *Orthop Trans* 12(3):553, 1988.
127. Amstutz HC, Kabo M, Dorey F, et al: Modes of Failure and Risk Factors of Resurfacing Hip Arthroplasty. *Transactions of the 15th Annual Meeting of the Soc for Biomat'ls* 214, 1989.
128. Amstutz HC, Kody MH, Thomas BJ, et al: Innovative Treatment for the Chronic Dislocating Total Hip Arthroplasty. *Orthop Trans* 13(3):685, 1989.
129. Amstutz HC, Nasser S, More RC, et al: The ATH (Anthropometric Total Hip) Femoral Prosthesis: Preliminary Clinical and Radiographic Findings of "Exact Fit" Cementless Application. *Orthop Trans* 13(1):74, 1989.
130. Campbell PA, Namba RS, Kilgus, DJ, et al: Bone Ingrowth in Human Porous Surface Replacement. *Orthop Trans* 13(2):392, 1989.
131. Campbell P, Nasser S, Kossovsky N, et al: Retrieval Analysis of Femoral Porous Coated Surface Replacement. *Transactions of the 15th Annual Meeting of the Soc for Biomat'ls* 33, 1989.
132. Dorey FJ, Amstutz HC: Validity of Survivorship Analysis in the Evaluation of Total Joint Arthroplasty. *Orthop Trans* 13(3):565, 1989.
133. Kilgus DJ, Namba RS, Gorek J, et al: Total Hip Replacement for Ankylosing Spondylitis with 6 Year Average Follow-Up. *Orthop Trans* 13(3):498, 1989.
134. Kossovsky N, Allameh V, Campbell P, et al: Inflammatory Activity of Synovial Macrophages Retrieved from Clinical Arthroplasty. *Transactions of the 35th Annual Meeting of the Orthop Res Soc* 459, 1989.
135. Nasser S, Amstutz HC, Campbell PA, et al: Wear Debris Induced Osteolysis in Retrieved Porous Surface Replacements. *Orthop Trans* 13(3):574, 1989.
136. Nasser S, Campbell P, Amstutz HC: The Unsuitability of Titanium Alloy as a Bearing Surface in Hip Arthroplasty: A Surface Replacement Model. *Transactions of the 15th Annual Meeting of the Soc for Biomat'ls* 32, 1989.
137. Nasser S, Lee YF, Amstutz HC: Direct Exchange Arthroplasty in 30 Septic Total Hip Replacements Without Recurrent Infection. *Orthop Trans* 13(3):519, 1989.
138. Schmalzried TP, Amstutz HC, Au M, et al: Etiology of Deep Sepsis in Total Hip Arthroplasty: The Significance of Hematogenous and Recurrent Infections. *Orthop Trans* 13(3):517, 1989.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

139. Thomas BJ, Davlin LB, Lee YF, et al: Measurement of Bone Induction with Computerized Imaging Techniques. *Orthop Trans* 13(2):287, 1989.
140. Tooke SM, Davlin LB, Dorey FJ, et al: Long-Term Follow-Up of Hip Arthroplasty in Patients with Congenital Hip Dysplasia. *Orthop Trans* 13(3):510, 1989.
141. Amstutz H, Kilgus D, Kabo M, et al: Porous Surface Replacement of the Hip. *Orthop Rel Sci* (1):62-74, 1990.
142. Campbell P, Nasser S, Millett D, et al: A Study of the Effects of Polyethylene Wear Debris in Cemented and Uncemented Implants. *Orthop Trans* 14(2):461, 1990.
143. Gebhard JS, Amstutz HC, Zinar DM, et al: Comparison of Total Hip Replacement and Hemiarthroplasty for Treatment of Acute Fracture of the Femoral Neck. *Orthop Trans* 14(3): 580-581, 1990.
144. Gebhard JS, Kabo JM, Kilgus DJ, et al: Socket Wear and Frictional Torque in "Long-Term" Conventional Hip Implants. *Orthop Trans* 14(2):393-394, 1990.
145. Gebhard JS, Kabo JM, Kilgus DJ, et al: Socket Wear and Frictional Torque in "Long-Term" Conventional Hip Implants. *Orthop Trans* 14(3):609, 1990.
146. Kossovsky N, Allameh V, Campbell P, et al: Inflammatory Activity of Synovial Macrophages Retrieved from Clinical Arthroplasty. *Orthop Trans* 14(1):183-184, 1990.
147. Kossovsky N, Liao K, Millett D, et al: Periprosthetic Chronic Inflammation Characterized Through the Measurement of Superoxide Anion Production by Synovial-Derived Macrophages. *Orthop Trans* 14(2):467-468, 1990.
148. Nasser S, Campbell PA, Amstutz HC: Wear Induced Osteolysis in Ti6Al-4V/U.H.M.W.P.E. Joint Replacements. *Orthop Trans* 14(3):608-609, 1990.
149. Nasser S, Dorey FJ, Amstutz HC: Aseptic Loosening of Cemented T-28 Acetabular Components in Patients More Than 60 Years of Age. *Orthop Trans* 14(3):608, 1990.
150. Severt R, Amstutz HC: Total Hip Arthroplasty in Osteoarthritis Secondary to Slipped Capital femoral Epiphysis. *Orthop Trans* 14(3):599, 1990.
151. Severt R, Tsender MJ, Thomas BJ, et al: Frictional Torque, Subluxation Force, and Glenohumeral Articular Design in Total Shoulder Arthroplasty. *Orthop Trans* 14(2): 464-465, 1990.
152. Thomas BJ, Amstutz HC, Cracchiolo A: Shoulder Arthroplasty for Rheumatoid Arthritis. *Rheumatology*, 1991.
153. Amstutz HC, Kabo M, Chow G: Surface Replacement - Update. *Orthop Trans* 16(1):170, 1992.
154. Campbell P, Chun G, Kossovsky N, et al: Histological Analysis of Tissues Suggests That Metallosis May Really Be Plasticosis. *Orthop Trans* 16(2):504, 1992.
155. Campbell P, Schmalzried T, Amstutz HC: Special Staining Supports The Presence Of

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

- Submicron UHMWPE Wear Debris in Periprosthetic Tissues. Soc for Biomat'ls, Implant Retrieval Symposium, Sept. 1992.
156. Campbell P, Schmalzried T, Amstutz HC: Wear Debris Induced Osteolysis as a Cause of TJR Failure. Soc for Biomat'ls, Implant Retrieval Symposium, Sept. 1992.
 157. Hak DJ, Johnston-Jones K, Luetzow W, et al: Effect of Proximal Fill on Rotational Stability in Cementless Total Hip Arthroplasty. *Orthop Trans* 16(2):332, 1992.
 158. Kabo JM, Kilgus DJ, Prins R, et al: Distribution of Biological Ingrowth Patterns and Associated Mechanical Strength Along Femoral Stems. *Orthop Trans* 16(2):477, 1992.
 159. Kilgus DJ, Kabo JM, Luetzow PA, et al: Bone Ingrowth into Hydroxyapatite and Non-Hydroxyapatite Coated Cementless Canine Acetabular Components. *Orthop Trans* 16(2):503, 1992.
 160. Ma S, Campbell P, Dorey F, et al: The Fate of Explained Joint Prosthesis. Soc for Biomat'ls, Implant Retrieval Symposium, Sept. 1992.
 161. Schmalzried TP, Jasty M, Burke DW, et al: Periprosthetic Bone Loss: The Role of Polyethylene Wear Debris and the Concept of the Effective Joint Space. *Orthop Trans* 16(2):399, 1992.
 162. Amstutz HC, Grecula MJ, Johnston-Jones K, et al: Can Rigid Fixation be Achieved with Smooth Press-Fit Stems: Indications and Results of Anthropometric Total Hip. *Orthop Trans* 17(1):244, 1993.
 163. Amstutz HC, Mai M: Indications, Technique and Results of Cemented and Cementless Acetabular Fixation. *JBJS Ortho Proc* 75B:47, 1993.
 164. Navarro RA, Schmalzried TP, Amstutz HC, et al: The Relationship Between Surgical Approach and Nerve Palsy in Total Hip Arthroplasty. *Ortho Trans* 17(2):466, 1993.
 165. Grecula MJ, Amstutz HC, Schmalzried TP, et al: Prosthetic Solutions for Osteonecrosis: A Comparison of 4 Models. *Orthop Trans* 17(4):1087, 1993-94.
 166. Grecula MJ, Schmalzried TP, Amstutz HC, et al: Pulmonary Emboli after Hospital Discharge: A True Risk Following Hip Arthroplasty. *Orthop Trans* 17(4):995, 1993-94.
 167. Grecula MJ, Schmalzried TP, Grigoris P, et al: Osteolysis in Hip Resurfacing Arthroplasty: Clinical Model of the Effective Joint Space. *Orthop Trans* 17(3):583, 1993-94.
 168. Kilgus DJ, Luetzow W, Tipton BS, et al: Factors Affecting the Outcome of Femoral Component Revision in Total Hip Arthroplasty. *Orthop Trans* 17(4):966, 1993-94.
 169. Mai MT, Grecula MJ, Grigoris P, et al: Survivorship Analysis of Hip Arthroplasties with High Polyethylene Wear: Suggestion of Polyethylene Intolerant Sub-Population. *Orthop Trans* 17(3):789, 1993-94.
 170. Mai MT, Schmalzried TP, Dorey F, et al: Effect of Bearing Surface size on the Longevity of Cemented Hip Arthroplasty: Frictional Torque or Wear Debris. *Orthop Trans* 17(3):790, 1993-94.
 171. Mai MT, Schmalzried TP, Dorey F, et al: The Contribution of Frictional Torque to Cement-Bone

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

- Interface Loosening in Hip Arthroplasty. Orthop Trans 17(3):582, 1993-94.
172. Schmalzried TP, Guttman D, Grecula M, et al: Cementless Acetabular Component Design, Position and Articular Wear in the Development of Pelvic Osteolysis. Orthop Trans 17(3):583, 1993-94.
173. Amstutz HC, Grecula M, Grigoris P, et al: Primary and Revision Hip Arthroplasty with the ATH Smooth Press-Fit Stem. Orthop Trans 18(3):874, 1994.
174. Amstutz HC, Grigoris R, Campbell P, et al: Alumina and Cobalt Chrome Hemi-Surface Replacement of the Hip: Treatment of Choice for Stage III Osteonecrosis. News Letters, ARCO 6(2):121, 1994.
175. Amstutz H, Grigoris P, Safran M: Long-Term Follow-Up Transtrochanteric Rotational Osteotomy. News Letters, ARCO 6(2):129, 1994.
176. Campbell P, Amstutz H: Methods of Wear Debris Particle: Isolation from Periprosthetic Tissues. J Bone Joint Surg 76B(SII & III):112, 1994.
177. Campbell P, Amstutz H: Submicron Polyethylene is Extensive in Periprosthetic Tissues. J Bone Joint Surg 76B(SII & III):112, 1994.
178. Campbell P, Ma S, Yeom B, et al: Problems and Limitations of Particle Isolation By Tissue Digestion. Orthop Trans 18(2):626, 1994.
179. Grecula MJ, Grigoris P, Amstutz HC: Precision-Fit Surface Hemiarthroplasty for Femoral Head Osteonecrosis. Orthop Trans 18(3):873, 1994.
180. Grecula MJ, Grigoris P, Brown I, et al: The Durability of Cemented Total Hip Arthroplasty in Patients Over Sixty: A Fifteen Year Survivorship Analysis. Orthop Trans 18(3):875, 1994.
181. Grigoris P, Grecula MJ, Amstutz HC: "Maximum Ball Radius" for THR Dislocation. Orthop Trans 18(3):872, 1994.
182. Guttman D, Schmalzried T, Kabo J, et al: Characterization of Back-Side Wear in Modular Polyethylene Liners. Orthop Trans 18(2):418, 1994.
183. Lieberman JR, Dorey F, Kilgus DJ, et al: Outcome After THA: A Comparison of Traditional Disease-Specific and Quality of Life Scoring Systems. Orthop Trans 18(3):871, 1994.
184. Lieberman JR, Dorey F, Shekell P, et al: Outcome After THA: A Comparison of Traditional Disease-Specific and Quality of Life Scoring Systems. Orthop Trans 18(3):660, 1994.
185. McKellop H, Campbell P, Park SH, et al: Morphology of UHMW Polyethylene Wear Surfaces and Debris. Transactions of Soc for Biomat'ls 20th Annual Meeting 198, 1994.
186. Northfield MR, Schmalzried TP, Belcher G, et al: Quantitative Assessment of Activity in Joint Replacement Patients. Orthop Trans 18(3):569, 1994.
187. Schmalzried TP, Brown IC, Amstutz HC, et al: The Role of Acetabular Component Screw Holes and/or Screws in the Development of Pelvic Osteolysis. Orthop Trans 18(3):870, 1994.
188. Grecula MJ, Grigoris P, Brown I, et al: The Durability of Cemented Total Hip Arthroplasty in Patients Over Sixty: A Fifteen Year Survivorship Analysis. Orthop Trans 18(4):1083, 1994-95.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

189. Safran M, Tooke M, Amstutz H: Transtrochanteric Rotational Osteotomy: Does it Have a Place in Orthopaedic Surgery today? A Long-Term Follow Up Study of Its Failure and Success. *Orthop Trans* 18(4):989, 1994-95.
190. Northfield MR, Schmalzried TP, Belcher G, et al: Quantitative Assessment of Activity in Joint Replacement patients. *Orthop Trans* 18(4):1009, 1994-95.
191. Campbell PA, Doorn PF, Dorey FJ, et al: Morphological Characterization of UHMWPE Particles from Total Hip Replacements. Transactions of the 2nd Combined Meeting of the Orthop Res Societies of U.S.A., Japan, Canada and Europe 21, 1995.
192. Campbell PA, Dorey F, McKellop HA, et al: Morphological Characterization of UHMWPE Particles from Total Hips with Alumina Ceramic and Cobalt Chrome Femoral Heads. Transactions of the Soc for Biomat'ls 21st Annual Meeting 308, 1995.
193. McKellop H, Campbell P, Park SH, et al: Wear of Retrieved Metal-Metal Implants After Two Decades of Clinical Use. Transactions of the 2nd Combined Meeting of the Orthop Res Societies of U.S.A., Japan, Canada and Europe 228, 1995.
194. Schmalzried TP, Campbell P, Brown IC, et al: Polyethylene Wear Particles Generated In Vivo By Total Knee Replacements Compared to Total Hip Replacements. Transactions of the Soc for Biomat'ls 21st Annual Meeting 310, 1995.
195. Amstutz H, Fowble V, Schmalzried T: Short Course Indomethacin Prevents Heterotopic Ossification Following Total Hip Arthroplasty. *Orthop Trans* 19(3):741, 1995-96.
196. Fowble V, Amstutz H, Schmalzried T, et al: short Course Indomethacin Prevents Heterotopic Ossification in the High Risk Patient Population Following Total Hip Arthroplasty. *Orthop Trans* 19(3):804, 1995-96.
197. Schmalzried TP, Brown IC, Amstutz HC, et al: The role of Acetabular Component Screw Holes and/or Screws in the development of Pelvic Osteolysis. *Orthop Trans* 19(4):926, 1995-96.
198. Schmalzried TP, Campbell P, Brown IC, et al: Polyethylene Wear Particles Generated In Vivo by Total Knee Replacements Compared to Total Hip Replacements. *Orthop Trans* 19(4):1000, 1995-96.
199. Amstutz HC, Schmalzried TP, Grigoris P, et al: Rationale and Preliminary Results with Metal-on-Metal Hip Resurfacing. *Orthop Trans* 20(2):333, 1996.
200. Amstutz HC, Ure KJ, nasser S, et al: Direct Exchange Arthroplasty for Septic Total Hip Replacement Without Recurrent Infection with Minimum Five Year Follow-Up. *Orthop Trans* 20(1):69, 1996.
201. Amstutz HC, Ure KJ, Schmalzried TP: The Relationship of Stem Geometry to Thigh Pain in Cementless THR: Clinical Results of a Smooth Long Stem Double Wedge Taper Design. *Orthop Trans* 20(2):349, 1996.
202. Fowble VA, Amstutz HC, Dorey FJ, et al: the Effect of Indomethacin on Low Dose Warfarin Thromboembolic Prophylaxis Following Total Hip Arthroplasty. *Orthop Trans* 20(1):70, 1996.
203. Fowble VA, Schmalzried TP, Amstutz HC: The Fate of Pelvic Osteolysis Following Reoperation. Transactions of the 42nd Annual Meeting of the Orthop Res Soc 1(2):412, 1996.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

204. Jacobs JJ, Skipor AK, Doorn PF, et al: Wear in Metal-on-Metal THR: Serum and Urine Chromium Concentrations. Transactions of the 42nd Annual Meeting of the Orthop Res Soc 1(2):412, 1996.
205. McKellop H, Doorn P, Chiesa R, et al: Twenty Year Retrieval Analysis of Metal-Metal Hip Prostheses. Transactions of the 42nd Annual Meeting of the Orthop Res Soc 1(2):412, 1996.
206. Ure KJ, Amstutz HC, Schmalzried TP, et al: Custom Eccentric Shells for Complex Acetabular Defects in Revision Hip Surgery. Orthop Trans 20(1):2, 1996.
207. Jacobs JJ, Skipor AK, Doorn PF, et al: Wear in Metal-on-Metal THR: Serum and Urine Chromium Concentrations. Orthop Trans 20(3):733, 1996-97.
208. Amstutz H, Campbell P, Noordin, S, et al: Fifteen Year Experience With Hemisurface Replacement of the Hip for Ficat Stage III and Early Stage IV Osteonecrosis. Orthop Trans 21(2):695, 1997.
209. Amstutz H, Noordin S, Sarkany A, et al: The Critical Difference in Hemi-Surface Replacement Vs. Total Hip Resurfacing: Absence of a Polyethylene Acetabular Component. ARCO News Letter 9(2):91, 1997.
210. Schmalzried TP, Fowble VA, Amstutz HA: Fate of Pelvic Osteolysis Following Reoperation. Orthop Trans 21(2):420, 1997.
211. Campbell P, Klausner B, Schmalzried T, et al: Polyethylene Wear Particle Morphology: Capsule vs. Osteolytic Lesions. Orthopaedic Transactions 21(3):742, 1997-98.
212. Doorn P, Campbell P, Benya P, et al: The Application of Transmission Electron Microscopy to the Characterization of Metal Wear Particles from Metal on Metal Total Hip Replacements. Orthopaedic Transactions 21(3):744, 1997-98.
213. Noordin S, Schmalzried TP, Campbell PA, et al: Analysis of Polyethylene Particles in Synovial Fluid. Orthopaedic Transactions 21(3):744, 1997-98.
214. Noordin S, Schmalzried TP, Campbell PA, et al: Synovial Fluid from Patients with Prosthetic Joint Arthroplasty: Protein Concentration and In Vivo Wear of Polyethylene. Orthopaedic Transactions 21(3):1022, 1997-98.
215. Schmalzried TP, Campbell PA, Szuszcwicz ES, et al: Femoral Head Surface Roughness and Patient Activity in the Wear of Hylamer. Orthopaedic Transactions 21(3):1027, 1997-98.
216. Schmalzried TP, Szuszcwicz ES, Northfield MD, et al: Quantitative Assessment of Activity in Joint Replacement Patients. Orthopaedic Transactions 21(3):827, 1997-98.
217. Amstutz HC, Noordin S, Sarkany A, et al: The Critical Difference in Hemi-Surface Replacement Vs. Total Hip Resurfacing: Absence of a Polyethylene Acetabular Component. J Bone Joint Surg 80 (B) S1:82, 1998.
218. Amstutz HC, Noordin S, Schmalzried TP: Long Term Experience with Precision-Fit Hemi-Resurfacing for Osteonecrosis of the Hip. J Bone Joint Surg 80 (B) S1:81, 1998.
219. Ure KJ, Amstutz HC, Schmalzried TP, et al: Custom Eccentric Shells for Complex Acetabular Defects in Revision Hip Surgery. J Bone Joint Surg 80 (B), S1:41, 1998.

HARLAN CABOT AMSTUTZ, M.D.

Curriculum Vitae

220. Zahiri C, Schmalzried T, Szuszczewicz E, et al: Assessing the Activity of Total Joint Replacement Patients: Comparison of Four Methods. *Orthopaedic Transactions* 22(1):42, 1998-1999.
221. McKellop H, Liao P, Liu, TS, et al: Lubricating Properties of Joint Fluids Around Total Hip and Total Knee Replacements. *Orthopaedic Transactions* 22(3):684, 1998-1999.
222. Zahiri CA, Schmalzried TP, Szuszczewicz ES, et al: Assessing Activity of Total Joint Replacement Patients. *Orthopaedic Transactions* 22(3):738, 1998-1999.
223. Zahiri CA, Schmalzried TP, Ebramzadeh E, et al: Lessons Learned from Loosening of the McKee-Farrar Total Hip. *Orthopaedic Transactions* 22(3):906, 1998-1999.
224. Schmalzried TP, Noordin S, Zahiri CA, et al: The Critical Difference in Hemi-Surface Replacement vs. Total Hip Resurfacing: Absence of a Polyethylene Acetabular Component. *Orthopaedic Transactions* 22(3):908, 1998-1999.
225. Campbell P, Mirra J, Salib D, et al: Viability of Femoral Heads Treated with Resurfacing Arthroplasty. *Orthopaedic Transactions* 22(3):909, 1998-1999.
226. Amstutz, H, Ure, K, Schmalzried, T: The Relationship of Stem Geometry to Thigh Pain in Cementless THR: Clinical Results of a Smooth Long Stem Double Wedge Taper Design. *Orthopaedic Transactions* 22(4): 1174, 1998-1999.
227. Amstutz, H, Sparling, E, Campbell, P, McKellop, H, Dorey, F: Preliminary Experience with Metal/Metal Hybrid and Cementless Surface Replacement of the Hip. *Orthopaedic Transactions* 22(4): 1195, 1998-1999.
228. Amstutz HC, Beaulé PE, Gruen TA, Le Duff MJ. Hybrid Metal on Metal Surface Arthroplasty: First 300 Hips with 2.5-5.9 Years of Follow Up. BOA Meeting. *JBJS Br Proceedings*, Jul 2003; 85-B: 158.
229. Beaulé P, Schmalzried T, Dorey F, Amstutz H. Cemented Adjusted Cup for Treatment of Femoral Head Necrosis. SICOT Meeting. *JBJS Br Proceedings*, Apr 2004; 86-B: 24.
230. Beaulé P, LeDuff M, Dorey F, Amstutz H. Behaviour of Non-Cemented Acetabular Implants Left in Place After Revision of the Femoral Component of Total Hip Arthroplasty. SICOT Meeting. *JBJS Br Proceedings*, Apr 2004; 86-B: 40.
231. Beaulé PE, Le Duff MJ, Dorey FJ, Amstutz HC. Fate of Cementless Acetabular Components Retained During Revision of a Femoral Component of a Total Hip Arthroplasty. EFORT Meeting *JBJS Br Proceedings*, Sep 2004; 86-B: 311.
232. Amstutz HC, Beaulé PE, Gruen TA, Le Duff MJ. Metal on Metal Hybrid Surface Arthroplasty (SA) for DDH. 3.5 to 6.5 Year Follow-Up. EFORT Meeting. *JBJS Br Proceedings*, Sep 2004; 86-B: 333.
233. Amstutz HC, Beaulé PE, Campbell PC, Dorey F, Le Duff MJ, Gruen T. Analysis of Short-Term Fractures of Metal-on-Metal Hip Resurfacing. EFORT Meeting. *JBJS Br Proceedings*, Sep 2004; 86-B: 352.
234. Amstutz HC, Campbell PC, Dorey F, Beaulé PE, Le Duff M. Risk Factors for Femoral Loosening in Metal-on-metal Hybrid Hip Resurfacing. EFORT Meeting. *JBJS Br Proceedings*, Sep 2004; 86-B: 352.

HARLAN CABOT AMSTUTZ, M.D.
Curriculum Vitae

235. Skipor A, Campbell P, Amstutz HC, Jacobs J. Metal Ion Levels in Patients with Metal on Metal Surface Arthroplasty. EFORT Meeting. JBJS Br Proceedings, Sep 2004; 86-B: 353.
236. Amstutz HC, Gruen TA, Le Duff MJ. Femoral Looseening and Thigh Pain Eliminated with a Double Wedge Tapered Extensively coated Grit-Blasted Stem. EFORT Meeting. JBJS Br Proceedings, Sep 2004; 86-B: 353.
237. Amstutz HC, Beaulé PE, Gruen TA, Le Duff MJ. Hybrid Metal on Metal Surface Arthroplasty. First 400 Hips with Conserve Plus. 2.5-5.9 Years of Follow Up. EFORT Meeting. JBJS Br Proceedings, Sep 2004; 86-B: 361.
238. Campbell P, Catelas IC, Mirra J, Amstutz HC. Characterization of Tissues from Metal-Metal THRs. ISTA Meeting. JBJS Br Proceedings, Nov 2004; 86-B: 437.
239. Beaulé PE, LeDuff M, Dorey F, Amstutz H. Clinical and Radiographic Factors Influencing Early Outcome of Metal-on-Metal Resurfaced Prostheses. SICOT Meeting. JBJS Br Proceedings, Apr 2005; 87-B: 121.
240. Beaulé PE, LeDuff M, Amstutz H. Metal-on-Metal Hybrid Twin Cups for Treatment of Femoral head Necrosis. SICOT Meeting. JBJS Br Proceedings, Apr 2005; 87-B: 121.
241. Amstutz HC, Beaulé PE, Gruen TA, LeDuff MJ. Metal-on-Metal Hybrid Surface Arthroplasty for Developmental Dysplasia of the Hip: 3.5 to 6.5-Year Follow-up. COA Meeting. JBJS Br Proceedings, Sep 2005; 87-B: 355.
242. Amstutz H, Antoniadis J, LeDuff M, Su E. Surface Arthroplasty in Young Patients with Hip Arthritis Secondary to Childhood Disorders. COA. JBJS Br Proceedings, Sep 2005; 87-B: 355.
243. Amstutz HC, Le Duff MJ. Anatomic Metal-on-Metal THR for Prevention of Dislocation the Use of Large Femoral Heads and Thin Sockets. COA. JBJS Br Proceedings, Sep 2005; 87-B: 355-356.
244. Amstutz HC, Beaulé PE, Gruen TA, Le Duff MJ. Risk Factors in Hybrid metal-on-Metal Surface Arthroplasty – First 400 Hips with 2.5 to 6.5-Year Follow-Up. COA Meeting. JBJS Br Proceedings, Sep 2005; 87-B: 356.
245. Beaulé PE, Dorey FJ, LeDuff M, Amstutz HC. Validation of Activity Level in the Assessment of the Clinical Outcome of Total Hip Arthroplasty. COA. JBJS Br Proceedings, Sep 2005; 87-B: 360.
246. Beaulé PE, Le Duff MJ, Amstutz HC, Biederman R, Mayrhofer P. Study of Femoral Component Migration in Surface Arthroplasty of the Hip Using EBRA-FCA. COA Meeting. JBJS Br Proceedings, Sep 2005; 87-B: 364.