

CURRICULUM VITAE

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COLLEGE: Case Western Reserve University
Cleveland, Ohio; Bachelor of Science, 1967

MEDICAL: Case Western Reserve University
School of Medicine
Cleveland, Ohio; MD, 1970

INTERNSHIP, Internal Medicine Boston City Hospital
1970-71

RESIDENCY, Internal Medicine Boston City Hospital
1971-1972, 1973-1974

FELLOWSHIP,
Endocrinology and Metabolism Stanford University Medical Center
1975-77

CLINICAL PRACTICE: Internal Medicine, Incline Village, NV, 1977-79
Diabetes and Endocrinology, Santa Fe, NM, 1979 to present.

CERTIFICATION: American Board of Internal Medicine, 1975
Endocrinology and Metabolism, 1977

LICENSES: New Mexico, California

PUBLICATIONS:

Non-Ketotic Diabetes Mellitus: Insulin Deficiency or Insulin Resistance?
American Journal of Medicine 60:80, 1976 (coauthor)

Hepatic Insulin Responsiveness in Patients with Endogenous Hypertriglyceridemia. Diabetologia 14:249, 1978 (coauthor)

Effect of Obesity on the Relationship Between Very Low Density Lipoprotein Production Rate and Plasma Triglyceride Concentration in Normal and Hyperglycemic Subjects. Metabolism 27:1047, September, 1978 (coauthor)

Defect in Glucose Removal in Non-Ketotic Diabetic Patients with Fasting Hyperglycemia. Diabetes 28:32, 1979 (coauthor)

AACE Clinical Practice Guidelines for the Management of Thyroid Carcinoma. Endocrine Practice 3:62, 1997 (coauthor)

Use of an Automated Device for Alternative Site Blood Glucose Monitoring. Diabetes Care 24:1217, July 2001 (coauthor)

Evaluation of a Simple, Easy-to Use Blood Glucose Meter (Precision Xceed). Abstract, American Diabetes Association Scientific Meeting, 2004 (coauthor)

Evaluation of the FreeStyle Lite Blood Glucose Monitoring System. Internal Publication, Abbott Diabetes Care, 2007 (coauthor)

Criteria for Continuous Glucose Monitoring Systems. Presbyterian HealthCare Systems Policy Statement, October, 2007 (coauthor)

Benefits of Insulin Pump Therapy, and Problems. In Insulin Pump Safety Meeting: Summary Report, by Klonoff and Reyes, Journal of Diabetes Science and Technology 3(2): 396, March 2009 (contributor)

Performance of a New Test Strip for FreeStyle Blood Glucose Monitoring Systems. Diabetes Technology and Therapeutics 13(1):1, 2011 (coauthor)

Accuracy and Precision of Aviva Freedom 2 Glucose Meter. Abstract, Advanced Technologies and Treatments for Diabetes Conference, Barcelona, Spain, February 2012 (coauthor)

User Performance Evaluation Of The Contour® Next Blood Glucose Monitoring System With The Contour® Next Test Strip. Poster, Diabetes Technology Society Meeting, Bethesda, MD, November 2012 (coauthor)

Accuracy, Precision, and User Performance Evaluation Of The Contour® Next Blood Glucose Monitoring System With The Contour® Next Test Strip. 6th International Conference on Advanced Technologies & Treatments for Diabetes, Paris, France, February 2013 (coauthor)

Multicenter Evaluation of the ACCU-CHEK Meters (Inform 2, Aviva, and Performa) with High Performance Test Strips: Capillary Blood Testing (coauthor)

EDITORIAL REVIEW BOARD: Endocrine Research, 2009-present

TEACHING EXPERIENCE: Clinical Associate, University of New Mexico 1979-1988:
Supervision and teaching of Internal Medicine residents

Numerous lectures and teaching discussions with physicians, nurses, physicians in training, and lay groups. Extensive public speaking experience.

MEDICAL-LEGAL: Have reviewed approximately 30 medical records, both for plaintiffs and defendants, from 1995 to present, for quality and appropriateness of care. Approximately 10 depositions and several court appearances as an expert witness.

CLINICAL STUDIES: Glucose Meter Studies:
Approximately 150 clinical evaluations of various glucose meters for accuracy and precision, ease of use, effect of altitude, approximately 8500 patients, 1991-present.

Other Studies:
Intensive evaluation of continuous glucose sensor, with venous blood sampling every 15 minutes for 72 hours.
Evaluation of an instrument for point-of-service urine microalbumin.
Evaluation of an instrument for point-of-service HgbA1c.
Evaluation of outpatient use of continuous glucose monitoring systems.
Professional evaluation of various diabetes software.

PROFESSIONAL SOCIETIES: American Diabetes Association.
American Association of Clinical Endocrinologists.
Endocrine Society

CERTIFICATION: Certified Diabetes Technology Clinician (Diabetes Technology Society)

LECTURES
(1977-Present)

Pathogenesis and Treatment of Hyperlipidemia, Entire medical staff, Santa Clara Valley Medical Center, San Jose, CA, 1977.

Alcoholic Ketoacidosis, Entire medical staff, Santa Clara Valley Medical Center, 1977.

Vitamin D Metabolism (grand rounds), Entire medical staff, Santa Clara Valley Medical Center, 1977.

Hyperprolactinemia, Internal Medicine Section, St. Vincent Hospital, Santa Fe, NM, 1980.

Evaluation of Amenorrhea, Entire medical staff, St. Vincent Hospital, Santa Fe, NM, 1980.

Thyroid Carcinoma, Entire medical staff, St. Vincent Hospital, 1980.

Update in Diabetes, Internal Medicine Section, St. Vincent Hospital, 1980.

Hyperprolactinemia, Entire medical staff, St. Vincent Hospital, 1980.

Appropriate Use of Oral Hypoglycemic Agents, Internal Medicine Section, St. Vincent Hospital, 1980.

Update on Oral Agents, Internal Medicine Section, St. Vincent Hospital, 1980.

Recognition and Management of Diabetic Emergencies: Hypoglycemia and Ketoacidosis, Intensive care unit nurses, St. Vincent Hospital, 1981.

Recognition and Management of Endocrine Emergencies, Symposium on Critical Care, San Juan Regional Medical Center, Farmington, New Mexico, 1983.

Recognition and Management of Diabetic Emergencies: Hypoglycemia and Ketoacidosis, Entire nursing staff, St. Vincent Hospital.

Management of Diabetes, Entire medical staff, Los Alamos Medical Center, Los Alamos, NM.

Management of Type 2 Diabetes, State Meeting of American Association of Family Practice, Albuquerque, NM, 1985.

What is Diabetes, Really?, Clinical Diabetes Update, statewide symposium on diabetes, Santa Fe, NM, 1985.

Can Diabetics Eat Ice Cream? (Dietary therapy in diabetes), Clinical Diabetes Update, statewide symposium on diabetes, Santa Fe, NM, 1985.

Diabetes Update, Entire medical staff, Des Moines, Iowa.

Relative Prevalence of Renal Failure in Type 1 vs. Type 2 Diabetes (Poster Presentation), New Mexico Society of Internal Medicine, New Mexico Scientific Meeting, Albuquerque, NM.

Appropriate Care of Type 2 Diabetes, Entire medical staff, Raton, NM, 1985.

Recognition and Management of Diabetic Emergencies: Hypoglycemia and Ketoacidosis, Intensive care unit nurses, St. Vincent Hospital.

What's New In Diabetes?, Entire medical staff, Socorro, NM, 1986.

A Comprehensive Review of Diabetes, New Mexico State Pharmacists Association (annual statewide meeting), Santa Fe, NM

Diabetes Update, Entire medical staff, Cuba, NM, 1987.

Management and Differential Diagnosis of Severe Hypercalcemia, Entire medical staff, Shiprock Regional Hospital, Shiprock, NM, 1987.

Comprehensive Review of Diabetes: Physiology and Management, Entire medical staff, Health Centers of Northern New Mexico, 1987.

Diabetes Update: Theory and Practice, Statewide Family Practice Symposium, New Mexico Academy of Physician Assistants, Taos, NM, 1988.

A Practical Approach to Diabetes, (full day workshop in Diabetes), Entire medical staff, Eastern New Mexico Medical Center, Roswell, NM, 1988.

Management and Differential Diagnosis of Severe Hypercalcemia, Entire medical staff, San Juan Regional Medical Center, Farmington, NM, 1988.

Case Studies in Thyroid Disease, Entire medical staff, Holy Cross Hospital, Taos, NM, 1989.

Diabetes Update 1989, (full day workshop), Entire medical staff, Gila Regional Medical Center, Silver City, NM, 1989.

Case Studies in Thyroid Disease, Entire medical staff, Northeast Regional Medical Center, Las Vegas, NM.

Osteoporosis: Appropriate Use and Interpretation of Dual X-ray Based Absorption Densitometer, Radiology staff, St. Vincent Hospital, 1989.

Osteoporosis: Latest Methods in Diagnosis and Treatment, Entire medical staff, St. Vincent Hospital, 1989.

Osteoporosis: Etidronate, Internal Medicine Section, St. Vincent Hospital, 1990

Hypercalcemia: Case Study, Differential Diagnosis, Entire medical staff, Holy Cross Hospital, Taos, NM, 1993.

Humoral Hypercalcemia of Malignancy, Entire medical staff, Los Alamos Medical Center, Los Alamos, NM, 1993.

Demonstration of Current Reflectance Meters for Self Blood Glucose Monitoring, Entire medical staff, St. Vincent Hospital, Santa Fe, NM, March 1993.

Diabetes Control and Complications Trial: Glucose Control Makes a Difference, Entire medical staff, St. Vincent Hospital, Santa Fe, NM, December 1994

Diabetes Control and Complications Trial: Glucose Control Makes a Difference, Entire medical staff, Los Alamos Medical Center, Los Alamos, NM, February 1995

Diabetes Control and Complications Trial: Glucose Control Makes a Difference, Entire medical staff, Holy Cross Hospital, Taos, NM, April 1995.

The Role of the Primary Care Physician in Managing Diabetic Patients, "Outcomes and Disease Management of Diabetes," (sponsored by The Zitter Group/Center for Outcomes Information), San Francisco, CA, July 1995.

Diabetic Ketoacidosis: Pathophysiology and Therapy Made Easy, "Practical Diabetes '95 Seminar", Family Practice Physicians, Hilton of Santa Fe, Santa Fe, New Mexico, October 1995.

Diabetes Control and Complications Trial (DCCT): Results and Implications for Therapy, "Practical Diabetes '95 Seminar", Family Practice Physicians, Hilton of Santa Fe, Santa Fe, New Mexico, October 1995.

Insulin Management: Easy Methods for Optimal Glucose Control, "Practical Diabetes '95 Seminar", Family Practice Physicians, Hilton of Santa Fe, Santa Fe, New Mexico, October 1995.

Diabetes: Other Than Glucose Control, What Else Is Important? "Practical Diabetes '95 Seminar", Family Practice Physicians, Hilton of Santa Fe, Santa Fe, New Mexico, October 1995.

Therapy of Type 2 Diabetes, "Practical Diabetes '95 Seminar", Family Practice Physicians, Hilton of Santa Fe, Santa Fe, New Mexico, October 1995.

Syndrome X: Insulin Resistance, Hypertriglyceridemia, Hypertension, and Coronary Artery Disease, "Practical Diabetes '95 Seminar", Family Practice Physicians, Hilton of Santa Fe, Santa Fe, New Mexico, October 1995.

Future Developments in the Therapy of Diabetes, "Practical Diabetes '95 Seminar", Family Practice Physicians, Hilton of Santa Fe, Santa Fe, New Mexico, October 1995.

Type 2 Diabetes: Appropriate Use of the New Oral Agents, General Internists and Family Practice Physicians, Eldorado Hotel, Santa Fe, New Mexico, February 1996.

Clinical Application of Hemoglobin A1C Assay, Public Health Service Laboratory Technicians, Winrock Hotel, Albuquerque, New Mexico, July 1997.

Type 2 Diabetes: Use of the New Oral Agents, American Association of Family Practice Physicians, State Meeting, Ruidoso, New Mexico, July 1997.

Type 2 Diabetes: Overview of Appropriate and Comprehensive Care, American Association of Clinical Endocrinologists Primary Care Symposium, Albuquerque, New Mexico, November 1997.

Type 2 Diabetes: Targeting Macrovascular Risk Factors, Joslin Clinic Symposium, Santa Fe, New Mexico, March 1998.

Clinical Update, Type 2 Diabetes, General Internists and Family Practice Physicians, Los Alamos Medical Center, Los Alamos, New Mexico, April 1998.

Current Standards for Care for Type 2 Diabetes, General Internists and Family Practice Physicians, Santa Fe Public Health Service Hospital, Santa Fe, New Mexico, May 1998.

Appropriate Use of Oral Agents in Type 2 Diabetes, General Internists and Family Practice Physicians, Santa Fe Public Health Service Hospital, Santa Fe, New Mexico, May 1998.

Case Studies: Problem-Solving in Type 2 Diabetes, General Internists and Family Practice Physicians, Santa Fe Public Health Service Hospital, Santa Fe, New Mexico, June 1998.

The Environmental Ambush: Global Warming and Human Health, Medical Staff, St. Vincent Hospital, Santa Fe, New Mexico, April 1999.

Case Studies in Endocrinology and Diabetes, New Mexico Chapter, American Association of Family Practice, Ruidoso, New Mexico, June 1999.

Diabetes: Clinical Update, Medical Staff, Holy Cross Hospital, Taos, New Mexico, October 1999.

DCCT & UKPDS: Results and Implications for Therapy, "Clinical Diabetes: 1999", General Care Physicians, Hilton of Santa Fe, Santa Fe, New Mexico, October 1999.

Oral Agents in the Care of Type 2 Diabetes: A Review, "Clinical Diabetes: 1999", General Care Physicians, Hilton of Santa Fe, Santa Fe, New Mexico, October 1999.

Cardiac Risk Factor Modification in Type 2 Diabetes, "Clinical Diabetes: 1999", General Care Physicians, Hilton of Santa Fe, Santa Fe, New Mexico, October 1999.

What's New in Weight Management, "Clinical Diabetes: 1999", General Care Physicians, Hilton of Santa Fe, Santa Fe, New Mexico, October 1999.

Type 2 Diabetes: Clinical Update and Case Studies, Albuquerque, New Mexico, December 1999.

The Environmental Ambush: Global Warming and Human Health, Medical Staff, Presbyterian Hospital, Albuquerque, New Mexico, December 1999.

The Environmental Ambush: Global Warming and Human Health, Medical Staff, Los Alamos Medical Center, Los Alamos, New Mexico, February 2000.

Type 2 Diabetes: Clinical Update, Los Alamos Medical Center Grand Rounds, Los Alamos, New Mexico, February 2000.

The Environmental Ambush: Global Warming and Human Health, The Research Association of Medical and Biological Organizations, Albuquerque, New Mexico, February 2000.

Type 2 Diabetes: Clinical Update, Espanola Hospital, Espanola, New Mexico, February, 2000.

Global Warming and Human Health, General Medical Staff, Lovelace Medical Center, Albuquerque, New Mexico, November 2000.

Global Warming and Human Health, General Medical Staff, Holy Cross Hospital, Taos, New Mexico, November 2000.

Diabetes 2003: Clinical Update, Grand Rounds, St. Vincent Hospital, Santa Fe, NM, March 2003.

Global Warming, Human Health, and Energy Choices, Grand Rounds, Santa Fe Public Health Hospital, Santa Fe, NM, November 2003.

Global Warming and Human Health, NM Council of Churches, Global Warming Conference, Albuquerque, NM, November 2003.

Diabetes Update: 2004, Grand Rounds, St. Vincent Hospital, Santa Fe, NM, April 2004.

Thyroid Cancer, Grand Rounds, St. Vincent Hospital, Santa Fe, NM, November 2004.

Osteoporosis, Grand Rounds, St. Vincent Hospital, Santa Fe, NM, February 2005.

Type 2 Diabetes, Newer Therapies, Grand Rounds, Holy Cross Hospital, Taos, NM, October 2005.

Case Studies in Endocrinology, Grand Rounds, St. Vincent Hospital, Santa Fe, NM, June 2007.

Global Warming and Human Health, Gallup Solar Group, Gallup, NM, June 2007.

Insulin Pump Safety, Diabetes Technology Society, Bethesda, MD, November 2008.

Insulin Pumps and Continuous Glucose Monitoring Systems, Grand Rounds, St. Vincent Hospital, Santa Fe, NM, January 2010.

Immunomodulation in Type 1 Diabetes, General Medical Staff of St. Vincent Hospital, Santa Fe, NM, May 2011.

Autoimmunity in Type 1 Diabetes, Grand Rounds, St. Vincent Hospital, Santa Fe, NM, June 2011.

CLINICAL PRACTICE GUIDELINES

Member of expert panel for development of diabetes care guidelines, Value Health Sciences, Santa Monica, California.

Member of expert panel for development of diabetes care guidelines, Rocky Mountain HMO, Denver, Colorado.

Featured speaker, and member of expert panel for development of diabetes care guidelines, Integrated Pharmaceutical Services/Foundation Health Plan, Santa Monica, CA.

The above three positions included extensive participation in development of care guidelines for Type 2 diabetes, including guidelines for initiating and adjusting oral medications, insulin, hypertension and lipid control, and other aspects of comprehensive diabetes care.

American Association of Clinical Endocrinologists: Member of Committee on Clinical Practice, Standards and Guidelines 1998.

American Association of Clinical Endocrinologists: Ad Hoc Committee on Medicare Diabetes Mellitus Treatment Provisions, 2001.