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# CURRICULUM VITAE BARBARA RUTH HIRSCH, M.D. MS F.A.C.E. North Shore Diabetes & Endocrine Associates 3003 New Hyde Park Road Suite 201 New Hyde Park, New York 11042 516-327-0850

September 2019

# **PERSONAL DATA:**

Date of Birth: September 30, 1955 Marital Status: Married, two children

# **EDUCATION**:

Masters 2013 M.S. Narrative Medicine, Columbia University; New York

Medical School 1980 M.D., SUNY Buffalo School of Medicine,

Buffalo, New York

Undergraduate 1976 B.S., Human Development and Family Studies,

Cornell University, Ithaca, New York

#### **POSTGRADUATE:**

Fellowship 1983-1985 Endocrinology, Albert Einstein College of Medicine,

Bronx, New York

Residency 1981-1983 Internal Medicine, Mt. Sinai Hospital,

New York, New York

Internship 1980-1981 Internal Medicine, Long Island Jewish Hospital,

New Hyde Park, New York

# **BOARD CERTIFICATIONS:**

1995 Fellowship American College of Endocrinology

1985 Endocrinology and Metabolism

1983 Internal Medicine

1981 National Board of Medical Examiners

# **MEDICAL LICENSURE:**

July 1981

New York # 146421

**CURRENT POSITION** 

1985-Present Endocrinologist and Partner

Director of American Diabetes Association accreditation

North Shore Diabetes and Endocrine Associates,

New Hyde Park, New York

July 2011 – Present Clinical Assistant Professor; Department of Medicine

Donald and Barbara Zucker School of Medicine at Hofstra

March 2010-Present Humanities in Medicine Program/Osler Society

advisory committee , Donald and Barbara Zucker School

of Medicine at Hofstra 2013-Present

Founder and facilitator of "Come Write with Us"

writing group for the Donald and Barbara Zucker School of

**Medicine at Hofstra** 

January 2015-Present Healer's Art faculty; Donald and Barbara Zucker School of

**Medicine at Hofstra Northwell** 

2016-Present Humanities and Medicine, MS4 elective; Donald and Barbara

**Zucker School of Medicine at Hofstra** 

2016-Present Sustaining Doctors Committee; Center for Pastoral Education

The Jewish Theological Seminary

2016-Present Healing Professionals advisory board, Temple BethEl, Great

Neck, New York

March 2011 to 2017 Narrateur Reflections on Caring; Donald and Barbara Zucker

School of Medicine at Hofstra, Editorial Advisory Board,

Photography

### **ATTENDING STAFF**

1995 - Present North Shore University Hospital,

Manhasset, New York

1986 - Present Long Island Jewish Hospital,

New Hyde Park, New York

1985 - 1996 Little Neck Community Hospital,

Little Neck, New York

# **PUBLICATIONS, PODCASTS**

2019 https://www.journalofhealthdesign.com/JHD/podcasts

2019 Hershon, K. S., Hirsch, B. R., & Odugbesan, O. (2019).

Importance of Postprandial Glucose in Relation to A1C and Cardiovascular Disease. *Clinical Diabetes*, Cd180040.

doi:10.2337/cd18-0040

2014 Jhaveri KD, Berger E, Shah HH, Ouchi T, Mandel H, Hirsch

B, Farber N, Nelkin M, Murn M, Fornari A. Narrative Medicine

|                  | Reflective Writing in the Dialysis Unit. Poster presentation at The American Society of Nephrology, Philadelphia, Nov 2014.  |
|------------------|--|
| 2012             | Hirsch, Barbara. Into the Wind. 2007. Narrateur Reflections on Caring. 1st ed. pg. 39.Print.   |
| 2012             | Issac Sachmechi, Aileen Wang, and Barbara Hirsch. Unusual Case of Levothyroxine Allergy. AACE 21st Annual Scientific and Clinical Congress. 23 May 2012 Philadelphia, PA: AACE, 2012. Print.           |
| 1987             | Hirsch, Shamoon: Defective Epinephrine and Growth<br>Hormone Responses in Type I Diabetes Are Stimulus<br>Specific. Diabetes 36:20-26.   |
| 1982             | Davis, Spector, Hirsch, Walshe, Yoshida: Comparison of Pituitary Thyroid Function in Patients with End-Stage Renal Disease and In Age- and Sex-Matched Controls. <u>Kidney</u> International21:362-364 |
| 1976             | Poger, Hirsch, Lamm: Synthesis of Secretory Component in Colonic Neoplasms. American Journal of Pathology: 82:327-338  |
| ADVISORY BOARDS, | CONFERENCES, LECTURES  |
| 2019             | Novo Nordisk Curriculum Development Meeting, Princeton, New Jersey   |
| 2019             | Diabetes Management with the Free Style Libre<br>American College of Physicians, Philadelphia, Pennsylvania  |
| 2018             | Novo Nordisk Practice Insights Focus Group on Tuesday,<br>December 4, 2018 in New York, NY   |
| 2018             | Janssen Cardiometabolic Council Advisory Board Meeting Houston, Texas  |
| 2018             | Diabetes Management with the Free Style Libre System American Association of Family Physicians, New Orleans  |
| 2017             | Sanofi Regional Consultants Advisory Board, New York   |
| 2017             | Primed NY- Experience with INVOKANA: Clinical Trial Results and Real-World Evidence  |
| 2017             | Patient Input Forum on Hypoglycemia and Diabetes Management; Merck; Kenilworth, New Jersey   |
| 2017             | Pri-Med Long Brooklyn  |
| 2017             | Diabetes Scientific Council Meeting, Janssen Pharmaceuticals, Houston, Texas   |
| 2016             | US Diabetes Community Endocrinologist Expert Input Forum,<br>Merck, Jersey City, New Jersey  |
| 2016<br>2016     | Diabetes Scientific Council Meeting, Janssen, Dallas Texas<br>Health Systems Type 2 Diabetes Management Advisory<br>Board, Dallas, Texas   |

2015 Experiencia Clinica con SGLT-2 en EE.UU

XXVI Congreso Nacional de la Sociedad Espanola de

Diabetes; 15-17 Abril 2015

2015 Fall Steering Committee Meeting, Janssen, SF, CA

November 2015

2015 Steering Committee Meeting, Janssen, Houston, Texas,

MAY 2015

2014-Present, annual Narrative Ethics lecture, Certificate in Clinical Bioethics,

Hofstra University Bioethics Center

2014 "Facilitator Narrative Workshop."

Student Advising. Columbia University. Columbia

University, New York. 2014. Lecture.

2014 Identifying the T2DM Treatment Algorithm in an Evolving

Landscape; Advisory board, Janssen, Short Hills, New

Jersey

2012 Issac Sachmechi, Aileen Wang, and Barbara Hirsch.

An Unusual Case of Levothyroxine Allergy. AACE 21st Annual Scientific and Clinical Congress. 23 May 2012

Philadelphia, PA: AACE, 2012. Print.

1985 American Diabetes Association: Counter-regulatory

Hormones (CRH) During Exercise: Variable Dependence on

Ambient Glycaemia.

1980 American Society of Nephrology: *The Pituitary-Thyroid* 

Gland Axis is Normal in Chronic Renal Failure.

# **MEMBERSHIPS**

Human Ecology Alumni Association Board; Cornell

University (HEAA)

American Diabetes Association; Professional Education Committee of the Long

Island Chapter

New York Diabetes Association Clinical Society

American College of Physicians

Nassau Chapter of American Medical Women's Association,

Board Member of National Council of Women in Medicine, Board of Trustees

North American Menopause Society

American Association of Clinical Endocrinologists

Endocrine Society

#### **HONORS/AWARDS**

1980 Dr. Louis Sklarow Outstanding Graduate in Medicine Award

1980 Emilie Davis Rodenberg Memorial Award for Academic
Excellence in the Study of Diabetes and its Complications
Robert Wood Johnson Scholarship for Medical Studies

#### **PRESENTATIONS**

2006 The Role of Angiotensin Blockade in the Treatment of

Hypertension in Diabetes Mellitus; Queens Hospital Center;

Sinai School of Medicine Department of Medicine Grand

Rounds

1994 Joan Hamberg Show, WOR radio broadcast

The Role of Estrogen Replacement Therapy for Women at

Mid-Life American Diabetes Association

1994 Lauren Collier, Channel 68, Osteoporosis -Diagnosis and

treatment

# CME CONFERENCES/Presented As DIRECTOR OF EDUCATIONAL PROGRAMMING

March 14, 2002 The Heterogeneous Etiology of Type 2 Diabetes and Its Impact on Coronary Artery Disease and Mortality, jointly sponsored by North Shore Long Island Jewish Health System and North Shore Diabetes & Endocrine Associates. The Water's Edge, Long Island City, NY, 3.0 ACCME credits. Supported by an unrestricted grant from Pfizer Inc

June 27, 2001 Advances and Changes Trends in Medicine jointly sponsored by North Shore Long Island Jewish Health System and North Shore Diabetes & Endocrine Associates. The Vanderbilt, Plainview, NY. 3.0 AACME credits. Supported by an unrestricted grant from Aventis Pharmaceuticals

April 24, 2001 The Heterogeneous Etiology of Type 2 Diabetes and Its Impact on Coronary Artery Disease and Mortality, jointly sponsored by North Shore Long Island Jewish Health System and North Shore Diabetes & Endocrine Associates. The Roslyn Claremont Hotel, Roslyn, NY, 3.0 ACCME credits. Supported by an unrestricted grant from Pfizer Inc

December 14, 2000 <u>Obesity and Thyroid Dysfunction: A Clinical Overview,</u> jointly sponsored by The Foundation for Better Health Care and North Shore Diabetes & Endocrine Associates. The Hilton Huntington, Melville, NY. 2.5 ACCME credits. Sponsored by an unrestricted grant from Knoll Pharmaceuticals.

June 22, 2000 <u>Current Trends in Diabetes Treatment and the Impact of Cardiovascular Disease on the Affected Population</u>, jointly sponsored by Long Island Jewish Medical Center and North Shore Diabetes & Endocrine Associates. The Mark

Hotel, New York, NY. 3.0 ACCME credits. Supported by an unrestricted grant from SmithKline Beecham Pharmaceuticals.

March 4,11,18 2000 Obesity In The Millennium – Taking Control, jointly sponsored by Long Island Jewish Medical Center and North Shore Diabetes & Endocrine Associates. Water's Edge Restaurant, Long Island City, NY., Roslyn Claremont Hotel, Roslyn, NY and Wyndham Windwatch Hotel, Hauppauge, NY. 2.5 ACCME credits. Supported by an unrestricted grant from Roche Pharmaceuticals.

December 2. 1999 <u>Type 2 Diabetes – A Rational Approach to Management in the Millennium</u>, jointly sponsored by Mount Sinai School of Medicine, Page and William Black Post-Graduate School for Continuing Medical Education and North Shore Diabetes & Endocrine Associates. Punta D'oro Restaurant, Astoria, NY. 3.0 ACCME credits. Supported by an unrestricted grant from Bristol-Myers Squibb.

November 10, 1999 Type 2 Diabetes Training: The Management of Concurrent Conditions, jointly sponsored by Mount Sinai School of Medicine and North Shore Diabetes & Endocrine Associates. Roslyn Claremont Hotel, Roslyn, NY. 3.0 ACCME credits. Supported by an unrestricted grant from Bristol-Myers Squibb

October 23, 1999 Insulin Resistance Syndrome – Current Approaches in the Management of Type 2 Diabetes, jointly sponsored by Mount Sinai School of Medicine, Page and William Black Post-Graduate School for Continuing Medical Education and North Shore Diabetes & Endocrine Associates. The Garden City Hotel, Garden City, NY. 4.0 ACCME credits. Supported by an unrestricted grant from Parke-Davis Pharmaceuticals.

October 13, 1999 <u>Successful Strategies for the Control of Type 2 Diabetes</u>, jointly sponsored by Long Island Jewish Medical Center and North Shore Diabetes & Endocrine Associates. Garden City Hotel, Garden City, NY. 2.0 ACCME credits, Supported by and unrestricted grant from Eli Lilly & Company.

September 29, 1999 <u>Male Hypogonadism and Erectile Dysfunction – Understanding the Differences</u>, jointly sponsored by Mount Sinai School of Medicine, Page and William Black Post-Graduate School for Continuing Medical Education and North Shore Diabetes & Endocrine Associates. Roslyn Claremont Hotel, Roslyn, NY. 2.5 ACCME credits. Supported by an unrestricted grant from Alza Pharmaceuticals.

June 3 1999/
June 26, 1999
Safety & Efficacy of Oral Hypoglycemic Agents Individualizing the Approach, jointly sponsored by Long Island Jewish Medical Center
and North Shore Diabetes & Endocrine Associates. Wyndham Windwatch Hotel,

Hauppauge, LI and Garden City Hotel, Garden City, NY. 2.0 ACCME credits. Supported by an unrestricted grant from Parke-Davis Pharmaceuticals.

February, March,

May 1999 <u>Diabetes in the Millennium – Complication Prevention and New Treatment Options</u>, co-sponsored by Long Island Jewish Medical Center and North Shore Diabetes & Endocrine Associates. The Garden City Hotel, Garden City, NY, Wyndham Windwatch Hotel, Hauppauge, LI and Waters' Edge, Long Island City, NY. 3.0 ACCME credits. Supported by an unrestricted grant from Schering Diabetes and Novo Nordisk.

November 14, 1998 <u>Insulin Resistance Syndrome – The Pathway to Glucose</u>
<a href="Mailto:Control">Control</a>, co-sponsored by Long Island Jewish Medical Center and North Shore Diabetes & Endocrine Associates. The Garden City Hotel, Garden City, NY. 5.0 ACCME credits. Supported by an unrestricted grant from Parke-Davis Pharmaceuticals.

August 9, 1998 <u>Treatment for Obesity – Triangle for Success – Behavior, Nutrition, Medication,</u> co-sponsored by Long Island Jewish Medical Center and North Shore Diabetes & Endocrine Associates. The Long Island Marriott, Uniondale, L.I. 2.5 ACCME credits. Supported by an unrestricted grant from Knoll Pharmaceuticals.

May 20, 1998/

June 3, 1998 <u>Type 2 Diabetes Training – Incorporating New Treatment Modalities into Clinical Practice</u>, co-sponsored by Long Island Jewish Medical Center and North Shore Diabetes & Endocrine Associates. Wyndham Windwatch Hotel, Hauppauge, LI and the Garden City Hotel, Garden City, NY. 2.5 ACCME credits. Supported by an unrestricted grant from Bristol-Myers Squibb Pharmaceuticals.

February 24, 1998 <u>Designer Estrogens & Postmenopausal Health-Understanding Selective Estrogen Receptor Modulators (SERMS)</u>, co-sponsored by Long Island Jewish Medical Center and North Shore Diabetes & Endocrine Associates. The Garden City Hotel, Garden City, NY. 2 ACCME credits. Supported by an unrestricted grant from Eli Lilly & Company.

October 11, 1997 Perspective on the Treatment and Prevention of Non-Insulin Dependent Diabetes Mellitus, co-sponsored by Long Island Jewish Medical Center and North Shore Diabetes & Endocrine Associates. The Garden City Hotel, Garden City NY. 5 ACCME credits. Supported by an unrestricted grant from Bristol-Myers Squibb Pharmaceuticals.

#### RESEARCH

Sub Investigator- Injectable medication for Hyperlipidemia- Regeneron Sub Investigator- MACE assessment of weight loss medication - Eisai Sub Investigator-Injectable Diabetic Medication- Sanofi Sub Investigator-Injectable Diabetic Medication-Sanofi Sub Investigator- MACE assessment of an Oral Diabetic Agent- AstraZeneca Sub Investigator-Diabetic Nephropathy-AbbVie Sub Investigator-infusible medication for insulin pump- Halozyme Therapeutics Sub Investigator-Oral Diabetic Agent- Bristol-Myers Sub Investigator-Injectable medication for Hyperlipidemia- Amgen Sub Investigator-Injectable Diabetic Medication- Sanofi Sub Investigator-Insulin for Type 2 Diabetics- Sanofi Sub Investigator-Insulin for Type 1 Diabetics- Sanofi Sub Investigator-Insulin for Type 2 Diabetics- Lilly Sub Investigator-Insulin for Type 1 Diabetics- Lilly Sub Investigator- Diabetic Nephropathy-Abbott Sub Investigator- Insulin Delivery Device- Valeritas Sub Investigator- Oral Diabetic Agent- Johnson and Johnson

Sub Investigator- Oral Diabetic Agent- AstraZeneca

Sub Investigator- Insulin for Type 1 Diabetics- Mylan Sub-Investigator – Oral Hypertriglyceridemia agent – KOWA

Sub Investigator- Inhaled insulin (device)-MannKind Sub Investigator- Diabetic Nephropathy-Fibrogen Sub Investigator- Oral Diabetic Agent- Forest (x2)

Sub Investigator- Oral Diabetic Agent- Akros

Sub Investigator- Oral Diabetic Agent- Johnson and Johnson

Sub Investigator- Inhaled insulin (COPD) - MannKind

Sub Investigator- Hypertension- Novartis

Sub Investigator- Injectable Diabetic Medication- Amylin

Sub Investigator- Injectable Diabetic Medication- Novo Nordisk

Sub Investigator- Oral Diabetic Agent-Novartis

Sub Investigator- Oral Diabetic Agent- National Institute of Health

Sub Investigator – Hypertension- Takeda

Sub Investigator – Nephropathy- Nephrogenex

Sub Investigator- Injectable Diabetic Medication- Amylin

Sub Investigator - Painful Diabetic Neuropathy Abbott

Sub-Investigator- Insulin- Brigham Women's Hospital

Sub-Investigator- Oral Diabetic agent- National Institute of Health

Sub-investigator- Insulin/Drug Naïve - Bristol Meyers Squibb

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Sub-investigator- Latent Autoimmune Disease of the Adult- DeveloGen
Sub-investigator- Lipid- Merck
Sub-investigator- Inhaled Insulin- MannKind
Sub-investigator- Inhaled Insulin- NovoNordisk
Sub-investigator- Hypertension- Novartis
Sub-investigator- Metabolic Syndrome- Bristol Myers Squibb/Sanofi Partnership
Sub-Investigator- Nephropathy- Speedel
Sub-Investigator - Lipid/Diabetes - Merck
Sub-Investigator - Insulin - Aventis
Sub-Investigator - Osteoporosis - Wyeth-Ayerst
Sub-Investigator – Oral Diabetic – Novartis
Sub-Investigator – Pump X2 – Restoragen
Sub-Investigator - Insulin - NovoNordisk
Sub-Investigator - Oral Diabetic - Bristol-Myers
Sub-Investigator - Oral Diabetic - Novartis
Sub-Investigator - Fast Acting Insulin - Aventis
Sub-Investigator - Long Acting Insulin - Aventis
Sub-Investigator - Oral Diabetic - Wyeth-Ayerst
Sub-Investigator - Oral Diabetic - Bristol-Myers Squibb
Sub-Investigator - Oral Diabetic - Bristol-Myers Squibb
Sub-Investigator - Oral Diabetic - Insmed
Sub-Investigator - Oral Diabetic - Aventis
Principal Investigator - Oral Diabetic - Novartis
Sub-Investigator - Oral Diabetic - Pfizer
Sub-Investigator - Hypertension - Bristol-Myers Squibb
Sub-Investigator - Oral Diabetic - Pharmacia & Upjohn
Sub-Investigator - Oral Diabetic - AstraZeneca
Sub-Investigator - Oral Diabetic - Takeda
Sub-Investigator - Oral Diabetic - Takeda
Sub-Investigator - URI - ViroPharma
Sub-Investigator – Anemia in Early Renal Insufficiency (X2) – OrthoBiotech
Sub-Investigator – Lipid/Diabetes – Merck
Sub-Investigator – Oral Diabetic – Merck
Sub-Investigator - Oral Diabetic - Bristol-Myers Squibb
Sub-Investigator - Painful Diabetic Neuropathy - Bristol-Myers Squibb
Sub-Investigator - Oral Diabetic - Pharmacia & Upjohn
Sub-Investigator – Insulin – Hoechst Marion Roussel
Sub-Investigator – Hypertension – Bristol Myers Squibb
Sub-Investigator - Hypercholesterolemia - Park Davis/Pfizer
Sub-Investigator - Lipid Lowering - Park Davis/Pfizer
Sub-Investigator - Oral Diabetic (x3) Glaxo Wellcome
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Sub-investigator- Microalbuminuria and Gross Albuminuria- Kerry

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Sub-Investigator - Hypertriglyceridemia - Rhone-Poulenc Rorer
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Sub-Investigator - Oral Diabetic - Takeda

Sub-Investigator - Hyperlipidemia - SmithKline

Sub-Investigator - Oral Diabetic - Parke-Davis

Sub-Investigator - Oral Diabetic - Novartis

Sub-Investigator - Obesity & Diabetes - Amgen

Sub-Investigator - Neuropathy - Parke-Davis

Sub-Investigator - Flu - Hoffman LaRoche

Sub-Investigator - Diabetic Macular Edema - Eli Lilly

Sub-Investigator - Diabetic Retinopathy - Eli Lilly

Sub-Investigator - HRT - Berlex Labs

Sub-Investigator - Inhaled Insulin (x3) - Pfizer

Sub-Investigator - Obesity - Hoffman LaRoche

Sub-Investigator - Oral Diabetic - Parke-Davis

Sub-Investigator - Hypertension (x3) - Bristol-Myers Squibb

Sub-Investigator - Oral Diabetic (Extension) - Takeda

Sub-Investigator - Oral Diabetic - Bristol-Myers Squibb

Sub-Investigator - Obesity - Amgen

Sub-Investigator - Obesity - Amgen

Sub-Investigator - Hypertension - Novartis

Sub-Investigator - Oral Diabetic - Novartis

Sub-Investigator - Disposable Pen - Eli Lilly

Sub-Investigator - Oral Diabetic - Parke-Davis

Sub-Investigator - Diabetic Polyneuropathy - Pfizer

Sub-Investigator - Diabetic Foot Ulcer - Organogenesis

Sub-Investigator - Diabetic Oral Agent - Takeda America

Sub-Investigator - New Insulin - Type I - Hoechst Marion Roussel

Sub-Investigator - Diabetic Oral Agent - Glaxo Wellcome

Sub-Investigator - Diabetic Oral Agent - Bristol-Myers Squibb

Sub-Investigator - Diabetic Oral Agent - Bristol-Myers Squibb

Sub-Investigator - Genitourinary Atrophy - Eli Lilly

Sub-Investigator - Diabetic Oral Agent - Takeda America

Sub-Investigator - Diabetic Oral Agent - Takeda America

Sub-Investigator - Diabetic Oral Agent - Takeda America

Sub-Investigator - Diabetic Oral Agent & CHF - SmithKline Beecham Pharmaceuticals

Sub-Investigator - Diabetic Oral Agent - SmithKline Beecham Pharmaceuticals

Sub-Investigator - Diabetic Oral Agent - SmithKline Beecham Pharmaceuticals

Sub-Investigator - Erectile Dysfunction - Schiff &Co.

Sub-Investigator - New Insulin - Type II - Hoechst Marion Roussel

Sub-Investigator - New Insulin - Type I - Hoechst Marion Roussel

Sub-Investigator - Hormone Patch - Wyeth-Ayerst

Sub-Investigator - Renal Impairment Type II Diabetics - Takeda

Sub-Investigator - Obesity - Wyeth-Ayerst

Sub-Investigator - Hypopituitary - Eli Lilly

Sub-Investigator - Fast Acting Insulin Combination - Eli Lilly

Sub-Investigator - CHF - Ciba (Novartis)

Sub-Investigator - Intravitreal Hemorrhage - Advanced Corneal Systems

Sub-Investigator - Metastatic Bone Disease - Boehringer-Mannheim

Sub-Investigator - Fast Acting Insulin - Novo Nordisk

Sub-Investigator - Diabetic Oral Agent - Takeda

Sub-Investigator - Diabetic Oral Agent - Bayer

Sub-Investigator - Diabetic Oral Agent - Parke-Davis

Sub-Investigator - Alzheimer - Pfizer

Sub-Investigator - Proteinuria - Merck

Sub-Investigator - Diabetic Lower Extremity Ulcers - Oxford

Sub-Investigator - Osteoporosis - Merck

Sub-Investigator - New Insulin in NIDDM - Hoechst-Roussel

Sub-Investigator - New Insulin in IDDM - Hoechst-Roussel

Sub-Investigator - Endometrial Hyperplasia - Eli Lilly

Sub-Investigator - Osteoporosis - Eli Lilly

Sub-Investigator - Essential Hypertension - Wyeth-Ayerst

Sub-Investigator - Diabetic Gastroparesis - Janssen Research Foundation

Sub-Investigator - Diabetic Nephropathy Type I - Alteon

Sub-Investigator - Diabetic Nephropathy Type II - Alteon

Sub-Investigator - Peripheral Arterial Occlusive Disease - Alpha Therapeutic

Corporation

Sub-Investigator - Non-healing Foot Ulcer Study Phase III - Advanced Tissue

Sciences

Sub-Investigator - Erectile dysfunction Phase III & Open-label - Vivus

Sub-Investigator - Erectile dysfunction Phase II - Vivus

Sub-Investigator - Infected Diabetic Foot Ulcers, Magainin

Sub-Investigator - Foot Ulcer Study, Telios

Sub-Investigator - Non-healing Foot Ulcer Study Phase II - Advanced Tissue Sciences

Sub-Investigator - Combined Oral Agent - Hoechst