

CURRICULUM VITAE
RICHARD R. HEUSER, MD, FACC, FACP, FESC, MSCAI

ADDRESS

Heart and Vascular Center of Arizona
1331 North 7th Street #375
Phoenix, Arizona 85006
602.307.0070
Heuser58@gmail.com

EDUCATION

1969 - 1972 University of Wisconsin
 Honors in Chemistry
 Phi Beta Kappa
 Evan Helfaer Scholarship in Chemistry

1972 - 1976 University of Wisconsin School of Medicine
 Graduation with Honors – May 1976
 Alpha Omega Alpha
 Evan Helfaer Scholarship in Medicine

POST GRADUATION TRAINING

1976 – 1977 Internship in Medicine
 The Johns Hopkins Hospital
 Baltimore, Maryland

1977 – 1979 Residency in Medicine
 The Johns Hopkins Hospital
 Baltimore, Maryland

1979 – 1981 Fellowship in Cardiology
 The Johns Hopkins Hospital
 Baltimore, Maryland

LICENSURE

State of Arizona, License #19703
State of New Mexico, License #83-220

EMPLOYMENT

May 2022 to Present Heart and Vascular Center of Arizona

August 2019 – May 2022	Vascular Heart and Lung Associates
July 2009 – August 2019	Phoenix Heart Center/Physicians Group of Arizona/Steward Healthcare, Phoenix, Arizona
June 2007 – June 2009	Partner Affiliated Cardiologists of Arizona, Inc. Phoenix, Arizona
January 2006 – Present	Chief of Cardiology St. Luke’s Hospital and Medical Center Phoenix, Arizona
April 1997 – June 2007	Medical Director Phoenix Heart Center, Phoenix, Arizona
January 2006 – Present	Chief of Cardiac Catheterization Laboratory St. Luke’s Hospital and Medical Center
July 2004 – July 2005	President of Arizona Chapter The American Heart Association
December 2002 – December 2005	Director of Cardiovascular Research St. Joseph’s Hospital and Medical Center Phoenix, Arizona
April 2001 – December 2003	Cardiac Cath Lab Director St. Luke’s Medical Center, Phoenix, Arizona
June 2000 – December 2003	Medical Director Discovery Alliance, Phoenix, Arizona
1998 – June 2000	Director Phoenix Research Center, Phoenix, Arizona
April 1997 – June 2007	Director Phoenix Heart Center, Phoenix, Arizona
December 1999 – December 2002	Director of Research St. Luke’s Medical Center, Phoenix, Arizona
April 1997 – December 1999	Director of Research and Education

	Phoenix Regional Medical Center, Phoenix, Arizona
April 1990 – April 1997	Director of Research and Education Arizona Heart Institute, Phoenix, Arizona
January 1982 – July 1982	Instructor in Medicine, Cardiology The Johns Hopkins Hospital, Baltimore, Maryland
July 1982 – June 1983	Private Practice Houston Cardiovascular Associates, Houston, Texas
July 1983 – April 1990	Private Practice New Mexico Heart Clinic, Albuquerque, New Mexico

PROFESSIONAL APPOINTMENTS

September 2010 – Present	Phoenix Biomedical Campus Advisory Council University of Arizona
July 2003 – Present	Professor of Medicine University of Arizona College of Medicine
July 2003 – June 2007	Director of Interventional Fellowship Program University of Arizona College of Medicine, Phoenix Campus
July 2008 – Present	Director of Advanced International Fellowship Program St. Luke’s Medical Center, Phoenix, Arizona
December 1990 – July 2003	Clinical Associate Professor of Medicine University of Louisville, Louisville, Kentucky
June 1986 – April 1990	Clinical Associate Professor of Medicine University of New Mexico, Albuquerque, New Mexico
April 1997 – December 1999	Director of Research and Education Phoenix Regional Medical Center, Phoenix, Arizona
September 1995 – December 1999	Medical Director, Cardiac Catheterization Laboratory Phoenix Regional Medical Center, Phoenix, Arizona
May 1996 – April 1997	Director, Interventional Cardiology Arizona Heart Institute Foundation, Phoenix, Arizona
April 1990 – April 1997	Director of Research and Education

	Arizona Heart Institute Foundation, Phoenix, Arizona
July 1983 – February 1990	Director, Interventional Cardiology New Mexico Heart Clinic, Albuquerque, New Mexico
July 1983 – February 1990	Director, Medical Residency Program New Mexico Heart Clinic, Albuquerque, New Mexico
April 1994 – June 1986	Clinical Assistant Professor of Medicine University of New Mexico, Albuquerque, New Mexico
July 1982 – June 1983	Instructor in Medicine, Cardiology Baylor College of Medicine, Houston, Texas
1981 – July 1982	Instructor in Medicine, Cardiology Division of Cardiology The Johns Hopkins Hospital, Baltimore, Maryland

BOARD MEMBERSHIPS

American Board of Internal Medicine
 American Board of Cardiovascular Diseases, Diplomat
 American Board of Interventional Cardiovascular Diseases, Diplomat
 ACLS Certification Board Incorporated
 Former President, Arizona Chapter, American Heart Association
 Advisory Board, ASU Center for Healthcare Innovation and Clinical Trials
 University of Arizona Dean's Board Advisory
 Laureate of the American Board of Cardiology
 National Board of Physicians and Surgeons
 Cardio Renal Society of America Scientific Advisory Board

PROFESSIONAL MEMBERSHIPS

Fellow, American College of Angiology
 Fellow, American College of Cardiology
 Fellow, American College of Physicians
 Fellow, American Society of Angiology 2005
 Fellow, European Society of Cardiology 2005
 Fellow, The American Heart Association
 Fellow, American Society of Cardiovascular Interventions
 Fellow, International Society of Cardiovascular Interventions
 Fellow, Society of Cardiac Angiography and Interventions
 Master, Society of Cardiac Angiography and Interventions
 Member, Society of Cardiac Angiography and Interventions Education Committee
 Member, Society of Cardiac Angiography and Interventions Ischemic Heart Disease Committee
 Member, American Association for the Advancement of Science

Member, American Heart Association
Member, American Medical Association
Member, European Society of Cardiology Council on Stroke
Member, European Society of Cardiology Heart Failure Association
Member, Houston Cardiology Society
Member, Houston Society of Internal Medicine
Member, International Andreas Gruentzig Society
Member, International Network of Interventional Cardiology
Member, International Society for Carotid Artery Therapy
Member, International Society of Minimally Invasive Cardiac Surgery
Member, New Mexico Medical Society
Member, Harris County Medical Society
Member, The Johns Hopkins Legacy Society
Member, Texas Medical Association
Member, National Register's Who's Who in Executives and Professionals
Member, Who's Who in Medicine and Healthcare 2002-2003
Charter Member, CTO Club 2004
Member, The Physicians Advisory Council 2005
Member, Empire Who's Who 2005
Member, Who's Who in America 2006-2007
Member, Who's Who in Science and Engineering 9th Edition 2006-2007
Member, Madison Who's Who Among Executives and Professional 2007 2008
Member, Cambridge Who's Who Among Executives and Professionals in Research, Medicine,
and
Healthcare, Honors Edition 2008-2009
Member, Who's Who in America 2012
Charter Member of the American Academy of Peripheral Vascular Disease

CLINICAL ADVISORY BOARDS

Advanced Cardiovascular Systems
USCI
Mansfield Scientific Interventional Board
Medtronic Interventional Vascular
Scientific Advisory Board of International Society of Heart Failure
NACCME Advisory Board in Vascular Disease Cardiva Medical,
Inc.
University of Arizona Advisory Council Board
Arizona State University College of Health Solutions Development Council
Cardiovascular Revascularization Medicine Section Editor of CTO

EDITORIAL BOARDS

Abstract Grader TCT
Catheterization and Cardiovascular Diagnosis
Cardiovascular Revascularization Medicine Including Molecular Interventions
Cardiovascular Revascularization Medicine CTO Section Editor

Cardiovascular Research Foundation/Society of Cardiac Angiography and Interventions
Journal of American College of Cardiology Cardiovascular Interventions
Journal of Endovascular Surgery
Journal of Invasive Cardiology
Vascular Disease Management
Annals of Clinical and Experimental Hypertension
Journal of Invasive and Non-Invasive Cardiology
Heart International

DATA SAFETY BOARDS

ICEM Data Safety Monitoring Board
Abbott Laboratories Data Safety Monitoring Board for Drug Coated Stent Program, PREFER,
A Perspective Study to Evaluate the Safety and Efficacy of the ABT-578 Coated BiodivYsio®
Stent for the Reduction of Restenosis
Spectranetics EXCITE Data Safety Monitoring Board

CONSULTANT

Editors of the Annals of Internal Medicine
Editors of Catheterization and Cardiovascular Diagnosis Editors
of Circulation
Editors of the Journal of Invasive Cardiology
Editors of the American Journal of Cardiology
Editors of Web, MD
Annual Scientific Session Program Committee of the American College of Cardiology
Abstract Advisor for Angioplasty; Stents
Annual International Symposium of Transcatheter Cardiovascular Therapeutics Abstract Grader

DEVICE RESEARCH

Principal Investigator	Across Cypher Trial
Sub-Investigator	ACS Multi-Link Stent Trial Principal Investigator – ACS Rx
Principal Investigator	ACT-One Trial, Abbott Vascular Angio-Seal Trial
Principal Investigator	ACT 1, Carotid Angioplasty and Stenting versus endarterectomy in asymptomatic subjects who are at standard risk for carotid endarterectomy with significant extracranial carotid stenotic disease, Abbott Vascular
Principal Investigator	ARMOUR Study, proximal protection with the MO.ma device during carotid stenting, Invatec
Principal Investigator	AVERT, Osprey Medical
Principal Investigator	Balloon Expandable Intraluminal Stent for Subtotally Occluded Iliac Arteries
Principal Investigator	Bard® Memotherm Carotid Stent Study
Principal Investigator	BARRICADE Randomized Trial – The Barrier Approach to Restenosis: Restrict Intima and Curtail Adverse Events (JOMED JOSTENT)

Principal Investigator	BEST Trial
Principal Investigator	BetaCath System Trial
Principal Investigator	Boehringer Ingelheim Pharmaceuticals Protocol Comparing Micardis And COZAAR
Principal Investigator	Boomerang, Cardiva Medical
Principal Investigator	CABERNET Clinical Trial – Carotid Artery Revascularization using the Boston Scientific EPI FilterWire EX™ and the EndoTex™ NexStent™
Principal Investigator	CADILLAC Trial
Principal Investigator	CAPRICORN Trial
Principal Investigator	CAPTIVE – Cardioshield Application Protects During Transluminal Intervention of Vein Grafts by Reducing Emboli
Principal Investigator	CAPTURE 2 Trial, Guidant
Principal Investigator	CARDIOMETRICS
Principal Investigator	Carotid Wallstent Trial
Principal Investigator	CAVEAT II Trial
Principal Investigator	CHAMPION PHOENIX, Cangrelor vs Standard Therapy to Achieve optimal Management of Platelet Inhibition, The Medicines Company
Principal Investigator	CHOCOLATE BAR, The chocolate Balloon Angioplasty Registry, TriReme Medical, Inc
Principal Investigator	Clinical Investigation of the Magnum Wire vs. Standard Guide Wires During Total Occlusion Angioplasty
Principal Investigator	Closure I Trial
Principal Investigator	CHOICE Carotid Stent Trial, Abbott Vascular
Principal Investigator	Carotid Stenting for High-Surgical Risk Patient; Evaluating Outcomes Through the Collection of Clinical Evidence --> Abbott Vascular
Principal Investigator	COMBAT Trial
Principal Investigator	CONFIDENCE study: Carotid stent trial to evaluate the safety and efficacy of the Roadsaver stent used in conjunction with Nanoparasol embolic protection system for patients at increased risk of adverse events from carotid endarterectomy; Microinvention, Inc.
Principal Investigator	CONNECT, Chronic Total Occlusion Crossing with the Wildcat Catheter, Avinger
Principal Investigator	Cook GR II Trial
Principal Investigator	CORDIS Nitinol Carotid Stent and Delivery System for the Treatment Of Obstructive Carotid Artery Disease
Principal Investigator	Cordis Carotid Randomized Sapphire
Principal Investigator	Cordis Bilateral AAA Device and Delivery System
Principal Investigator	(CATS) Safe-Steer™ Wire System Coronary Artery Total Occlusion Study
Principal Investigator	CREATE PAS, Carotid Revascularization with ev3 Arterial Technology Evolution Post Approval Study, Ev3, Inc
Principal Investigator	CREATE Trial, Ev3
Principal Investigator	CREDO Trial
Director	CrossLock Study
Principal Investigator	Novaste CUP Trial

Principal Investigator	CVD Accucath Infusion Catheter
Principal Investigator	Duett Closure Device
Principal Investigator	DURABILITY PAS, Post Approval Study, Covidien
Sub-Investigator	ECLIPSE study: Evaluation of treatment for severe calcific coronary Arteries: Orbital atherectomy vs conventional angioplasty technique prior To implantation of drug-eluting stents; CSI Cardiovascular Systems, Inc.
Principal Investigator	ENDEAVOR IV Trial
Principal Investigator	EndoSonics Cath Scanner Oracle – PTCA Catheter
Principal Investigator	ENOVUS Trial
Principal Investigator	EPI FilterWire Ex™ System during Transluminal Intervention of Saphenous Vein Grafts
Principal Investigator	EXACT Carotid Stent Trial, Abbott Vascular
Principal Investigator	EXPERT CTO, <u>E</u> valuation of the <u>X</u> IENCE Coronary Stent, <u>P</u> erformance, and <u>T</u> echnique in <u>C</u> hronic <u>T</u> otal <u>O</u> clusion, Abbott Vascular
Principal Investigator	EXTRA Stent
Principal Investigator	FACTOR Trial
Principal Investigator	FAST CTO, BridgePoint Medical
Principal Investigator	GE-145-002, GE Healthcare
Principal Investigator	GEM-REM, A PI initiated proof-of-concept study to determine whether generative model-based resource efficient ecg monitoring (GEM-REM) electrocardiogram monitoring is at least as diagnostically effective in terms of signal quality as traditional monitoring techniques used in hospital settings, Arizona State University
Principal Investigator	GREAT – Guided Radio Frequency Energy Ablation of Total Occlusions Using the Safe-Cross™ Radio Frequency Total Occlusion Crossing System
Principal Investigator	GRIP – Guided Radio Frequency in Peripheral Total Occlusions Crossing System Using the Safe-Cross™ Total Occlusion (TO) Crossing System
Principal Investigator	HIPS Trial
Principal Investigator	Human Percutaneous Laser Angioplasty of the Coronary Arteries
Principal Investigator	IMPROVE IT Trial
Sub-Investigator	ISR 14-04: Post-Approval Study of the GORE VIABAHN Endoprosthesis for the Treatment of In-Stent Restenosis in the SFA; W. Gore & Associates, Inc
Principal Investigator	JET Registry, Jetstream NAVITUS System Endovascular Therapy Post-Market Registry, Medrad, Inc
Principal Investigator	JET STREAM 2, Pathway Medical
Principal Investigator	Johnson & Johnson Intracoronary Stent Program Supplement #27 New Delivery System
Principal Investigator	Kensley Nash Hemostatic Puncture Closure Device
Sub-Investigator	LIBERTY 360. Prospective, Observational, Multi-Center Clinical Study to Evaluate Acute and Long Term Clinical and Economic Outcomes of Endovascular Device Intervention in Patients with Distal Outflow

Principal Investigator	Peripheral Arterial Disease (PAD); CSI Cardiovascular Systems, Inc LIFE Study. Least Invasive Fast-Track EVAR with the Ovation Prime Abdominal Stent Graft System; Trivascular, Inc.
Principal Investigator	Mansfield-Boston Scientific Strecker Coronary Stent
Principal Investigator	Medtronic AVE S7 with Discrete Technology Coronary Stent System
Principal Investigator	Medtronic AVE S7 Coronary Stent Registry
Principal Investigator	MIST II Trial, NMT Medical MAVERICK Carotid Stent Study, Medtronic AVE
Principal Investigator	MOBILE Trial – More Patency with beta for In-Stent Restenosis in the Lower Extremities Trial IDE #G010295; Protocol D00789 Rev B Dated 12/01
Principal Investigator	NIR Stent Trial
Principal Investigator	Neurex/Elan Pharmaceuticals Trial
National Co-PI	OASIS Trial, CSI
Principal Investigator	PFAST-CTO, <u>P</u> eripheral <u>F</u> acilitated <u>A</u> ntegrade <u>S</u> teering <u>T</u> echnique in <u>C</u> hronic <u>T</u> otal <u>O</u> cclusions Study, BridgePoint, Medical
Principal Investigator	PAMI Stent Trial
Principal Investigator	Paragon Stent
Principal Investigator	Paris Radiation Trial
Principal Investigator	PaS Trial
Principal Investigator	Percutaneous Recanalization of Stenotic Human Coronary Arteries with Balloon Expandable Intracoronary Stents
Principal Investigator	Percutaneous Recanalization of Stenotic Human Saphenous Vein Bypass Graft with Balloon Expandable Intraluminal Stents
Principal Investigator	Percutaneous Thermal Balloon Angioplasty
Sub-Investigator	PLATINUM Diversity Study. Outcomes with the Promus PREMIER™ Stent in Women and Minorities; Boston Scientific
Principal Investigator	PMR Trial
Principal Investigator	Pravastatin or Atorvastatin Evaluation and Infection Therapy (Prove It)
Principal Investigator	PRESERV, Prospective Randomized Evaluation to Study the Effects of Reduced Contrast Media on the Vitality of the Kidney Trial, Osprey Medical
Principal Investigator	PROXIMAL Trial
Principal Investigator	Presto Trial
Principal Investigator	RAVES Trial, PROGUARD, Kensey Nash Corporation
Principal Investigator	PROSPECT Trial
Principal Investigator	RESCUE Trial
Principal Investigator	RESOLUTE US, Medtronic Vascular
Principal Investigator	SAFE-DCB: A Prospective, Multicenter, Single Arm, Real-World Registry Assessing the Clinical Use of the Lutonix 035 Drug Coated Balloon Catheter in Arteries of the SFA and Popliteal Artery; C.R. Bard
Principal Investigator	SAFER – Saphenous Vein Graft Angioplasty Free of Emboli Randomized Study Using the PercuSurge Guard Wire™ System
Principal Investigator	SAVED Trial
Principal Investigator	SAPPHIRE Trial, Cordis, SAPPHIRE WN, Cordis

Principal Investigator	Schering-Plough Phase III Study of SCH 58235 in addition to Pravastatin compared to placebo in subject with primary hypercholesterolemia
Principal Investigator	Long-Term, Open-Label, Safety and Tolerability Study of SCH 58235 in addition to Pravastatin in Patients with Primary Hypercholesterolemia
Principal Investigator	Schneider WINS Trial
Principal Investigator	SCORES Trial
Principal Investigator	Sepracor Study of Norastemizole in Cardiac Compromised Subjects
Principal Investigator	SMART Trial (National PI)
Principal Investigator	SMART: Post-Approval Study
Principal Investigator	SOAR – Renal Stent, SONOMA, Boston Scientific
Principal Investigator	SONOMA, Boston Scientific
Principal Investigator	Efficacy and Safety Study of the Oral Direct Thrombin Inhibitor H 376/95 Compared with Dose-Adjusted Warfarin (Coumadin) in the Prevention of Stroke and Systemic Embolic Events in Patients with Atrial Fibrillation (SPORTIF V)
Principal Investigator	STARS Trial
Principal Investigator	START Trial (National PI)
Principal Investigator	STRATUS Trial
Principal Investigator	STRESS III Trial
Principal Investigator	SUMO Trial
Principal Investigator	(SWING) Sound Wave Inhibition of Neointimal Growth
Principal Investigator	Talent Endoluminal Graft (High Risk & Low Risk)
Principal Investigator	Talent Endoluminal Spring Stent-Graft System
Principal Investigator	TAMARIS, Sanofi Aventis
Principal Investigator	Tenax-XR Coronary Stent System
Principal Investigator	TITAL Trial
Principal Investigator	Trimedyne Excimer Laser Assisted Percutaneous Coronary Angioplasty
Principal Investigator	Trimedyne Percutaneous Eclipse Holmium Laser Coronary Angioplasty
Principal Investigator	Transvivo Trial
Principal Investigator	VeGAS 2 Trial
Director	Verve Medical Device Study
Sub-Investigator	VIAGAHN BX. Evaluation of the Gore VIABAHN Balloon Expandable Endoprosthesis (VIABAHN BX) for the Treatment of Occlusive Disease in the Common and External Iliac Arteries; W.L. Gore and Associates, Inc.
Sub-Investigator	VIABAHN BX: Evaluation of the GORE VIABAHN BALLOON EXPANDABLE EDOPROSTHESIS for the treatment of occlusive

disease in the Common and External Iliac Arteries; W.L. Gore & Associates, Inc.

Principal Investigator	VIVA Carotid Stent Trial, CR Bard
Principal Investigator	Volcano Registry Trial
Principal Investigator	Volocity Trial Principal Investigator – Venus Stent
Principal Investigator	WALLSTENT Study
Principal Investigator	WIKTOR Coronary Stent

PHARMACOLOGY RESEARCH

Principal Investigator	Abbott rUK Trial
Principal Investigator	Ajinimoto Pharmaceuticals Double-Blind Placebo-Controlled Study of AT-1015 in Patients with Intermittent Claudication due to Peripheral Artery Disease
Principal Investigator	Amgen, Inc., Anakinra Trial for Rheumatoid Arthritis
Principal Investigator	AstraZeneca Pharmaceutical Trial to Evaluate the Safety and Efficacy XXXX and Atorvastatin
Principal Investigator	AstraZeneca Trial Open label Dose Comparison Study to Evaluate the Safety and Efficacy of Rosuvastatin versus Atorvastatin, Pravastatin and Simvastatin in Subjects with Hypercholesterolemia
Principal Investigator	Parke-Davis and Pfizer Randomized Open-Label Study Comparing the Efficacy of Once Daily Atorvastatin to Simvastatin in Hypercholesterolemic Patients
Principal Investigator	Pilot Study to Evaluate Intracoronary Administration of Activase for the Treatment of Intracoronary Thrombus
Principal Investigator	Artistic Trial
Principal Investigator	AstraZeneca Trial of Niaspan versus New Generation Statin for the Treatment of Type IIB and Type IV Hyperlipidemia
Principal Investigator	AstraZeneca Multicenter Trial for Drug (XXX) and Atorvastatin for the Treatment of Hypercholesterolemia
Principal Investigator	BRAVO Trial
Principal Investigator	BioVail Angina and Hypertension Trial
Principal Investigator	CAMPER Trial
Principal Investigator	CAPRICORN Trial
Principal Investigator	Challenge Trial
Principal Investigator	CHAMPION PCI Trial
Principal Investigator	Centocor Chimeric 7E3 Fab
Sub-Investigator	Comparison of Lopentol and Omnipaque in Adult Angiocardiology
Sub-Investigator	Comparison of Intravenous Adenosine to Intravenous Placebo in Termination of Spontaneous or Induced Paroxysmal Supraventricular Tachcardia
Principal Investigator	CONNECT Trial

Principal Investigator	COR Therapeutics Randomized Placebo-Controlled Dose Ranging Study of Drug (XXXX) in Patients with Atherosclerotic Cardiovascular, Peripheral Vascular and/or Cerebrovascular Disease
Sub-Investigator	Dose Response Study of Bucindolol in Patients with Congestive Heart Failure
Principal Investigator	Effects of Recombinant Human Superoxide Dismutase in Patients with
Sub-Investigator	Acute Myocardial Infarction Subject to Coronary Artery Reperfusion
Principal Investigator	Eli Lilly – Agitation/Alzheimer’s Trial
Principal Investigator	EPILOG Trial
Principal Investigator	ERASER Trial
Principal Investigator	GUSTO Trial
Principal Investigator	A Multi-Center, Randomized, Double-Blind, Placebo-and-Active Controlled Parallel Group Dose-Ranging Study of the HMG CoA Reductase Inhibitor, BMS-423526, in the Treatment of Hyperlipidemia
Principal Investigator	Study Lovastatin XL with MEVACOR in Patients with Hypercholesterolemia
Sub-Investigator	Lovastatin Multi-Center Trial
Principal Investigator	Extended Trial of Lovastatin XL for the Treatment of Hypercholesterolemia
Principal Investigator	Multi-Center Double-Blind Placebo Controlled Trial of Drug (XXXX) In Patients with Type 2 Diabetes and Congestive Heart Failure
Principal Investigator	Effect of LDL-Cholesterol Lowering Beyond Currently Recommended Minimum Targets on Coronary Heart Disease (CHD) Recurrence in Patients with Pre-Existing CHD
Principal Investigator	A Double-Blind, Multi-Center, Randomized, Placebo-Controlled, Parallel Group Dosing Study Evaluating the Effects of Nebivolol on Blood Pressure in Patients with Mild to Moderate Hypertension, NEB 302
Principal Investigator	Parallel Group Extension Study to Determine the Safety and Efficacy of Long-Term Nebivolol Exposure in Patients with Mild to Moderate Hypertension NEB 306
Principal Investigator	NeoTherapeutics Alzheimer’s Disease 2000
Principal Investigator	NeoTherapeutics Alzheimer’s Disease 2001
Principal Investigator	OCTAVE Trial
Sub-Investigator	OCTAVE Trial
Principal Investigator	Pfizer Phase II Multi-Center, Double-Blind Placebo-Controlled Randomized Parallel Group Ranging Study of the Safety of CP529, 414 Soft-Gel capsules
Principal Investigator	PLATA, AstraZeneca
Principal Investigator	PLAC Trial
Principal Investigator	Protocol 073 Trial
Principal Investigator	Knoll Pharmaceutical Double-Blind Randomized Clinical Trial of Slow Release Propafenone (Rythmol-SR)® in the Prevention of Symptomatic Recurrences of Atrial Fibrillation
Principal Investigator	PREVAIL – A Phase 2 Multi-Center, Double-Blind Placebo-Controlled,

Principal Investigator	Dose-Ranging Study to Evaluate the Safety and Efficacy of BO-653 in Prevention of Post=Angioplasty Restenosis in Stented Lesions PROVE-IT TIMI 22 – Pravastatin or Atorvastatin Evaluation and Infection Therapy
Principal Investigator	PURSUIT Trial
Principal Investigator	QUIET Trial
Principal Investigator	RAFT Trial
Principal Investigator	REPLACE Randomized Evaluation in PCI Linking Angiomax to Reduce Clinical Events
Principal Investigator	RESOLUTE Trial
Sub-Investigator	Safety and Efficacy Study of Burroughs – Wellcome Tissue Plasminogen Activator in Patients with Acute Myocardial Infarction
Principal Investigator	A 6-Week, Open-Label, Dose-Comparison Study to Evaluate the Safety and Efficacy of Rosuvastatin versus Atorvastatin, Cerivastatin, Pravastatin and Simvastatin in Subjects with Hypercholesterolemia
Principal Investigator	A 48-Week, Open-label, Non-comparative, Multi-center, Phase IIIb Study to Evaluate the Efficacy and Safety of the Lipid-Regulating Agent Rosuvastatin in the treatment of Subjects with Fredrickson Type IIa and Type IIb Dyslipidemia, including Heterozygous Familial Hypercholesterolemia
Principal Investigator	SAGE Trial
Sub-Investigator	Long Term Open Label Safety and Tolerability Study of SCH58235 in Addition to Pravastatin in Patients with Primary Hypercholesterolemia
Principal Investigator	Phase III Double-Blind Efficacy and Safety Study SCH58235 (10 mg) in Addition to Pravastatin Compared to Placebo in Subjects with Primary Hypercholesterolemia
Principal Investigator	Phase III Open Label Efficacy and Safety Study SCH58235 (10 mg) in Addition to Pravastatin Compared to Placebo in Subjects with Primary Hypercholesterolemia
Sub-Investigator	Protomyxzoa vascular study: Detection of protozoan-based biofilm Communities including protomyxzoa rheumatic (FL 1953) in debris extracted in the normal course of cardiovascular suction atherectomy and related vascular clearance procedcures; Fry Labs
Principal Investigator	Sepracor Protocol Study of Norastemizole in Cardiac Compromised Subjects
Principal Investigator	SNAPIST – A Phase 2, Safety Study of Systematic Nanoparticle Paclitaxel (ABI-007) for In-Stent Restenosis; IND #63,082
Principal Investigator	SPORTIF V – Atrial Fibrillation Trial
Principal Investigator	SWORD Trial
Sub-Investigator	TIMI 38 Trial
Principal Investigator	Titration-to-Response Trial Comparing Micardis and COZAAR® in Patients with Mild-to-Moderate Hypertension
Principal Investigator	TNT Trial
Principal Investigator	TREND Trial
Principal Investigator	ULTRASCORE Trial, A Prospective, Multi-Center, Single-Arm, Real-

World Study Assessing Clinical Use of the Bard® UltraScolre™
 Focused Force PTA Balloon, CR Bard

Sub-Investigator VALDECOXIB Trial
 Principal Investigator An Open-Label, Multinational, Multi-Center, Extension Trial to Assess
 the Long-Term Safety and Efficacy of ZD4522 in Subjects in the
 ZD4522 Clinical Trial Program

BASIC RESEARCH

- 1990 – 1993 Systematic assessment of Medtronic balloons and guiding catheters in porcine and Canine models. Sponsored by Medtronic, Inc.
- 1990 – 1993 Determination of radiopacity and torquability of Medtronic vascular catheters in Porcine models. Sponsored by Medtronic, Inc.
- 1990 – 1994 Evaluation of Japan Crescent radiofrequency balloon in porcine model with emphasis On Histopathology of heat-produced lesions. Abstract submitted at 1993 AHA Conference.
- 1992 – 1996 Evaluation of Strecker in porcine and canine models. Sponsored by Boston Scientific.
 Evaluation of Wiktor stent and stent in porcine and canine models. Sponsored by Medtronic, Inc.
 Evaluation of NIR stent in porcine models. Sponsored by Cordis Corp.
- 1993 Evaluation of radiofrequency wire for total coronary occlusions in porcine models: Determining energy limitations. Equipment subsequently licensed to Radius Medical.
- 1994 – 1997 Training courses for professionals (physicians, engineers, technicians) in techniques and Strategies for placement of coronary stents. Five courses sponsored by Johnson & Johnson, Medtronic, Inc., and Cook, Inc.
- 1997 Efficacy of the Endotex Abdominal Aortic Aneurysm exclusion device in a porcine Model gauging ability to exclude renal arteries, ease of placement and radiopacity. Sponsored by Endotex.
- 1998 Use of percutaneous myocardial revascularization in a porcine model. Sponsored by Cardiogenesis Corporation at Stanford University.
- 1998 – 1999 Utility of radiofrequency (RF) percutaneous myocardial revascularization in acute and chronic porcine model: Histopathology and angiogenesis related to use of RF alone and in combination with growth factor (VEGF). Results presented at Angiogenesis 1999, Washington, D.C.
- 1999 Development and testing of embolic probe device in porcine model. Performed at PRMC And separately at Columbia Presbyterian in New York (Patent #6,364,900).
- 1999 Evaluation of the Medtronic carotid and SVG stent in porcine carotid and saphenous vein Graft lesions assessing ease of use and 30-day outcome. Sponsored by Medtronic, Inc.
- 1999 Development and testing of Protector vascular embolic protection device in porcine Model at Mayo Clinic (Patent #6,364,900).
- 1999 Evaluation of ability of intramuscular growth factor to stimulate angiogenesis in rabbit hindlimb model at 30 and 60 days post-procedure. Sponsored by Sulzer Medical.
- 1999 Use of Vesseal device to close porcine peripheral artery tears (Patent #6,159,197). Sponsored by Phoenix Heart Center.
- 2004 Feasibility of device for fluid removal with porcine model. Sponsored by Transvivo, Inc.
- 2004 Feasibility of PVI in creating AV Fistulae with porcine model. Sponsored by PVI (Patent #6,464,665).

- 2005 PFO Closure with StarClose Device. Sponsored by NMT.
- 2006 New RF wire for coronary and peripheral arteries. Sponsored by Radius Medical.
- 2006 Snare evaluation for heart and neuro application. Sponsored by Radius Medical.
- 2007 Surrogate endpoints in PAD. Sponsored by TBD.
- 2007 PFO and Arrhythmias. Sponsored by Phoenix Heart Center.
- 2008 Porcine Ventricular Closure Star Close. Sponsored by Abbott.
- 2008 Ventricular Porcine Closure. Sponsored by Medtronic.
- 2008 Porcine Ventricular Closure. Sponsored by Edwards.
- 2008 Cerebral Canine studies. Sponsored by Atrium.
- 2008 Ventricular Closure with AngioLink.
- 2010 Transapical Closure in Sheep and Pigs. Access Closure, San Jose, California.
- 2010 Ventricular Closure Ovoic. Sponsored by Access Closure.
- 2011 Canine PFO. Sponsored by Gore.

PUBLICATIONS

American Heart Journal

1. **Heuser RR**, Achuff SC, Brinker JA: Inadvertent division of an anomalous left anterior descending coronary artery during complete repair of tetralogy of Fallot. *Am Heart J* 1982; 103:430-432.
2. Strumpf RK, Mehta SS, Ponder R, **Heuser RR**: Palmaz-Schatz stent implantation in stenosed saphenous vein grafts: Clinical and angiographic follow-up. *Am Heart J* 1992; 3:1329-1336.
3. Diethrich EB, Santiago O, Gustafson G, **Heuser RR**: Preliminary observations on the use of the Palmaz stent in the distal portion of the abdominal aorta. *Am Heart J* 1993; 125:490501.
4. **Heuser RR**, Strumpf RK, Hardigan K: Use of the Doppler guidewire for intraluminal diagnosis to facilitate coronary intervention. *Am Heart J* 1993; 126:213-218.
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Results of 124 Patients Demonstrate Safety and Acute Procedural Effectiveness of Orbital Atherectomy for Peripheral Vascular Stenosis. *Am J Cardiol*; 2008; Vol. 102(8); 229i; TCT609.
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142. **Heuser RR:** Antegrade Approaches to Chronic Total Occlusions: Experience with Treating Twenty Year Old TOs and a New Support Balloon, CRT 2012.
143. **Heuser RR:** Direct Annuloplasty with QuantumCor: Device Evolution, Technique and Clinical Update, CRT 2012.
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155. **Heuser RR:** The Verve Medical System for Renal Denervation, New Cardiovascular Horizons, 2013.
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157. **Heuser RR:** A New Non-vascular System to Treat Resistant Hypertension, AHA Scientific Sessions 2013.
158. **Heuser RR:** Trans-urethral Renal Sympathetic Denervation (Verve Medical), TCT 2013.
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160. **Heuser RR:** Anchoring Improved: Introduction of a New Over the Wire Support Balloon for Treatment of Coronary CTOs, CRT 2014.
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Heuser RR: Non-vascular Renal Denervation (Verve), TRENDS 2015.
165. **Heuser RR:** Denervation in Hypertensive Renal Transplantation Patients: Verve's Disruptive Non-vascular Catheter Option to Nephrectomy, TCT, November 2015.
166. **Heuser RR:** Immediate Blood Pressure Response. The Verve Non-vascular Treatment for Resistant Hypertension, AHA Scientific Sessions, November 2015.
167. **Heuser RR:** CTOs: The Next Stage in Outpatient PCI, AHA Scientific Sessions, November 2015.
168. **Heuser RR:** A Non-vascular Treatment for Resistant Hypertension, American Society of Nephrology (ASN), November 2015.
169. **Heuser RR:** The Use of the CrossLock™ Catheter for Treatment of Complex PCI Lesions and CTOs, LINC Innovation, January 2016.
170. **Heuser RR:** Introduction of the Punctual Guidewire for Arterial and Venous Access, CRT Innovation, February 2016.
171. **Heuser RR:** The ORACLE Device: A New Snare for Removal of Thrombus, CRT Innovation, February 2016.
172. **Heuser RR:** Verve's Disruptive Non-vascular Catheter Option to Nephrectomy in Hypertensive Renal Patients. CRT Innovation, February 2016.
173. **Heuser RR:** The Use of the CrossLock Catheter in a Patient with Critical Limb Ischemia and a Popliteal Occlusion. CRT Innovation, February 2016.
174. **Heuser RR:** Intervention for Hypertension: Does Any Treatment Matter? SCAI, May 2016.
175. **Heuser RR:** Verve's Disruptive Non-vascular Catheter in Patients with ESRD and CKD, Complex Cardiovascular Catheter Therapeutics (C3), June 2016.
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177. **Heuser RR:** The Oracle™ Device: A New Snare for Removal of Thrombus. Basic Cardiovascular Sciences (BCVS 2016). July 2016.

178. **Heuser RR:** Renal Denervation I Chronic Kidney Disease: A Non-vascular Approach. Scientific Session, November 16, 2016.
179. **Heuser RR:** The Use of the CrossLock™ Catheter in a Patient with Critical Limb Ischemia and aa Popliteal Occlusion. LINC 2017.

AWARDS AND HONORS

1. Columbia/HCA Cardiovascular Management Network; 1998 Cardiologists of the Year
2. Strathmore's Who's Who; 5th Edition, 1998-1999
3. Marquis Who's Who in Science and Engineering; 8th Edition, 2005-2006
4. Business Journal's Valley's Most Influential; 2004
5. "Guide to America's Top Physicians"; 2004-2005 Edition
6. Manchester Who's Who; "Honors" Edition, 2005
7. Marquis Who's Who; 61st Edition, 2007
8. "Guide to America's Top Physicians"; 2006 Edition
9. "America's Top Cardiologists"; 2006
10. Cambridge Who's Who Among Executive and Professionals in Research, Medicine and Healthcare; 2007-2008
11. 2007 America's Top Cardiologists
12. 2009 America's Top Cardiologists
13. Cambridge Who's Who Among Executive and Professionals in Research, Medicine and Healthcare; 2010-2011
14. 2010 Phoenix Business Journal State Health Care Hero in Education
15. 2010 Patients' Choice Physician
16. Marquis Who's Who in America 66th Edition 2012
17. Top Cardiologist in Phoenix, Arizona by the International Association of Cardiologists (IAC), The Leading Physicians of the World 2011, 2012
18. Phoenix Super Docs 2012
19. 2011 Patients' Choice Physician
20. The American Board of Cardiology Award for Excellence, 2012
21. 2014 Phoenix, Arizona Super Doctors
22. 2014 Arizona Top Doctor in Cardiology (achieved the highest vote in group)
23. 2014 America's Top Cardiologists
24. 2015 America's Best Physicians
25. 2016 CRT Top Cardiovascular Innovation Award
26. 2016 Phoenix Magazine Top Doctors
27. 2016 America's Best Physicians
28. 2016 American Health Council Best in Healthcare
29. 2016 Physician of the Year
30. 2017 Arizona Top Business Leaders
31. 2017 America's Best Physicians
32. 2017 Phoenix Magazine Top Doctors
33. 2017 Top Doctors of Arizona in Cardiovascular Disease
34. Editorial Office of Catheterization and Cardiovascular Interventions (CCI), The official publication of SCAI, Frank Hildner Elite Reviewer 2017.
35. America's Most Honored Professionals 2018. The American Registry.
36. Arizona State University President's Club Ambassador 2017.
37. Who's Who in America 2017.

38. 2017 Albert Nelson Marquis Lifetime Achievement Award
39. 2018 Arizona Business Leaders Healthcare Innovators
40. 2018 Marquis Who's Who in the World
41. 2018 Albert Nelson Marquis Lifetime Achievement Award
42. 2018 Phoenix Magazine Top Doctors
43. 2019 Phoenix Magazine Top Doctors
44. 2019 Marquis Who's Who in the World 45. 2019 Arizona Business Leaders for Innovation

BLOGS

1. Novel Method of Ventricular Closure Following Transapical Access. *Vascular Disease Management, January, 2010.*
2. Early U.S. Use of the MoMa® Device in a Woman with Coronary Artery Disease. *Vascular Disease Management, February, 2010.*
3. A RCA CTO Treated with the CrossBoss™ Catheter. *Vascular Disease Management, March, 2010.*
4. A Case of Renal Vascular Hypertension. *Vascular Disease Management, April, 2010.*
5. Retrograde Recanalization of Chronic Total Occlusion of Posterior Tibial Artery. *Vascular Disease Management, May, 2010.*
6. Laser Recanalization of a 100% Occluded Posterior Tibial Artery. *Vascular Disease Management, June, 2010.*
7. New Options for High Risk CTO's: The Provia Wires used with the Impella Device. *Vascular Disease Management, July, 2010.*
8. The Use of the CrossBoss™ Catheter for a Right Coronary Artery Chronic Total Occlusion. *Vascular Disease Management, October, 2010.*
9. CTO'S: If at First You Don't Succeed, Try Again (With Better Equipment). *Vascular Disease Management, November, 2010.*
10. Novel Method of Ventricular Closure Following Transapical Access: A New Method. *Vascular Disease Management, January, 2011.*
11. A Case Using the Proteus™ Embolic Protection Balloon. *Vascular Disease Management, February, 2011.*
12. Getting One Leg Up on Critical Limb Ischemia. *Vascular Disease Management, March, 2011.*
13. Suck-U-Surge Revisited. *Vascular Disease Management, May, 2011.*
14. Suck-U-Surge Via the Radial Route. *Vascular Disease Management, August, 2011.*
15. Bifurcation PCI -- KISS. *Vascular Disease Management, September, 2011.*
16. With Carotid Long Lesions: Think Outside the Box. *Vascular Disease Management, October, 2011.*
17. Support Comes From Many Directions. *Vascular Disease Management, January, 2012.*
18. Even CTOs Can Be Helped with Aspiration. *Vascular Disease Management, March, 2012.*
19. When a Patient Presents with an Ulcer, Take a Careful History. *Vascular Disease Management, April/May 2012.*
20. TPA Works Well; However, it Needs to Be Administered in the Clot. *Vascular Disease Management, June 2012.*
21. Pedal Approach in a Difficult Contralateral Case. *Vascular Disease Management, July 2012.*
22. No Flow to the Big Toe: Successful Recanalization. *Vascular Disease Management, August 2012.*
23. First Time is a Charm. *Vascular Disease Management, September 2012.*
24. The Coil Before the Storm. *Vascular Disease Management, October 2012.*

25. The Belly of the Beast. *Vascular Disease Management, December 2012.*
26. Danger! Curve Ahead! *Vascular Disease Management, January 2013.*
27. Scoring a Healed Ulcer. *Vascular Disease Management, February 2013.*
28. Sweet as Chocolate. *Vascular Disease Management, March 2013*
29. Retrograde Crossing: When the Front Door is Locked, Find Another Way In! *Vascular Disease Management, May 2013.*
30. When the Front Door is Locked, Find Another Way In. *Vascular Disease Management, June 2013.*
31. To Leriche or Not to Leriche. *Vascular Disease Management, July 2013.*
32. When You Find a Cold Leg, Warm It Up! *Vascular Disease Management, August 2013.*
33. Wildcat on Steroids: Use of the Ocelot in a Long CTO. *Vascular Disease Management, September 2013.*
34. Mo.Ma: How I Love Ya! How I Love Ya! *Vascular Disease Management, October 2013.*
35. Legs Before Heart. *Vascular Disease Management, November 2013.*
36. Tibiopedal Access: Safe and Underutilized. *Vascular Disease Management, December 2013.*
37. A Good Start Can Bring a Happy Ending. The Use of the Ocelot with Wildcat in a Complicated SFA CTO. *Vascular Disease Management, April 2014.*
38. The Utility of the Prodigy Balloon in Chronic Total Occlusion. *Vascular Disease Management, May 2014.*
39. The Upstairs-Downstairs Approach to Critical Limb Ischemia. *Vascular Disease Management, August 2014.*
40. Prodigy™: Not Just for Hearts. A Case of Anterior Tibial Occlusion Treated with A Time-saving Device. *Vascular Disease Management, September 2014.*
41. A Common Femoral “Bounce Back”. *Vascular Disease Management, October 2014.*
42. Balloons on Drugs: The Use of DEB in a Femoral/Popliteal CTO. *Vascular Disease Management, November 2014.*
43. The Flash Saves the Day: A Device for Ostial Lesions. *Vascular Disease Management, December 2014.*
44. The Second Time is a Charm. *Vascular Disease Management, January 2015.*
45. PRAMI or WHAMI: When Do You Treat a Non-Ischemic Related Lesion in a STEMI Patient? *Vascular Disease Management, February 2015*
46. The Flash to the Rescue. *Vascular Disease Management, March 2015.*

47. CrossLock™ Crosses the CTO. *Vascular Disease Management, April 2015.*
48. The Flash is Back: Drilling with the Impella in a Left Main Tight Stenosis. *Vascular Disease Management, June 2015.*
49. Closing an Open Zipper with the Flash Ostial Dual Balloon Angioplasty Catheter. *Vascular Disease Management, July 2015.*
50. Double-Barreled Aorta No Match for “Old School Stenting”. *Vascular Disease Management, August 2015.*
51. Now I Can See in the Dark! *Vascular Disease Management, November 2015.*
52. Ocelot North and South. *Vascular Disease Management, January 2016.*
53. A Step Forward: The Use of the CrossLock Catheter in a Patient with Critical Limb Ischemia and a Popliteal Occlusion. *Vascular Disease Management, January 2016.*
54. Going to the Front with the FrontRunner™ and the CrossLock™: A New Treatment Regimen in Complex Peripheral CTOs. *Vascular Disease Management, May 2016.*

55. **Heuser RR**, Mhatre AU, Makki M, Nafisi S. May-Thurner Syndrome: It Pays To Look For It
Phoenix Heart Center Blog Post, August 18, 2017.

VIDEOS

1. Emerging Treatments in Limb Salvage. Cardio.vumedi.com/profile/Richard-Heuser. July 29, 2010.
2. Case Presentation on Peripheral Vascular Interventions for Critical Limb Ischemia and Wound Healing. Cardio.vumedi.com/profile/Richard-Heuser. July 29, 2010.
3. Popliteal, Pedal and Other Techniques to Improve Success in CLI: How Radialists Can Exploit Their Experience. Cardio.vumedi.com/profile/Richard-Heuser. February, 2013.
4. Avinger Case Study series using the Ocelot. VuMedi August 2013.
5. Advanced Lower Extremity Arterial Intervention. Pedal Access and Retrograde Approach for Tibial CTO. VuMedi CME Webinar September 9, 2013.
6. The Use of the Prodigy and CrossLock™ Catheter for Treatment of Complex PCI Lesions and CTO's. VuMedi August 2015.
7. Device Development: Can We Still Build a Better Mouse Trap from an Inventor's Perspective? VuMedi December 2015.
8. The Use of the Prodigy and CrossLock™ Catheter for Treatment of Complex PCI Lesions and CTO's. VuMedi December 2015.
9. Immediate Blood Pressure Response: The Verve Non-vascular Treatment for Resistant Hypertension. VuMedi December 2015.

PATENTS

1. Method and Apparatus for Treating Body Tissues and Bodily Fluids; Patent granted December 12, 2000; Number 6,159,197
2. Hot Tip Catheter; Patent granted February 20, 2001; Number 6,190,379
3. Embolism Prevention Device; Patent granted April 2, 2002; Number 6,364,900
4. Catheter Apparatus and Method for Arterializing a Vein; Patent granted October 15, 2002; Number 6,464,665
5. Methods and Apparatus for Treating Body Tissues and Bodily Fluid Vessels; Patent granted October 15, 2002; Number 4,464,681
6. Catheter for Thermal Evaluation of Arteriosclerotic Plaque; Patent granted March 25, 2003; Number 6,536,949
7. Small Diameter Snare; Patent granted April 29, 2003; Number 6,554,842
8. Stent System; patent granted February 22, 2004; Number 6,858,038
9. Catheter Introducer System; Patent granted January 23, 2007; Number 7,166,088
10. Methods and Apparatus for Treating Body Tissues and Bodily Fluid Vessels; Patent granted February 20, 2007; Number 7,179,250
11. Stent with Covering and Differential Dilatation; Patent granted November 27, 2007; Number 7,300,459
12. Catheter System for Connecting Adjacent Blood Vessels; Patent granted May 20, 2008; Number 7,374,567
13. Catheter Guidewire System using Concentric Wires; Patent granted July 22, 2008; Number 7,402,141
14. Catheter Introducer System granted on March 29, 2011; Number 7,914,492B2

15. Catheter System for Connecting Adjacent Blood Vessels granted on November 22, 2011; Number 8,062,321
16. Catheter Introducer System granted on November 29, 2011; Number 8,066,674
17. Systems and Methods for Ablation of Occlusions within Blood Vessels granted on October 1, 2013; Number 8,545,418
18. Over-the-Needle Guidewire Vascular Access System granted on November 11, 2014; Number 8,882,713
19. Luer Connector for an Over-the-Needle Guidewire Vascular Access System granted on February 3, 2015; Number 8,945,092B1.
20. Over-the-Needle Vascular Access Guidewire granted on December 8, 2015; Number 9,205,237.
21. Methods and Systems for Bypassing Occlusions in a Femoral Artery granted on February 16, 2016; Number 9,259,340.
22. Differential Dilation Stent and Method of Use granted on April 5, 2016; Number 9,301,830.
23. Over-the-Needle Guidewire Vascular Access Systems and Methods granted on September 4, 2018; Number 10,065,025B2
24. Differential Dilation Stent and Method Use granted January 22, 2019; Number 101,829,902B2.
25. Renal Nerve Denervation Via the Renal Pelvis granted July 23, 2019; Number 10,357.302B2.
26. Methods and Systems for Bypassing Occlusions in a Femoral Artery granted July 23, 2019; Number 10,265,206B2.