Date of Document: November 14, 2026

CURRICULUM VITAE

Margaret Mary Samyn MD, MBA

Assistant Dean, Professor
Department of Pediatrics
Division of Pediatrics Cardiology

OFFICE ADDRESS:

9000 West Wisconsin Avenue

Milwaukee, WI 53226

EDUCATION:

09/1977 - 05/1981 Marian High School, Birmingham, MI
08/1981 - 05/1985 BS, University of Detroit, Detroit, MI
08/1985 - 05/1989 MD, Wayne State University, Detroit, MI
08/2019 - 06/2021 MBA, University of Notre Dame, South Bend, IN

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

1986 Surgical Externship, Pediatric Externship, St Joseph Mercy Hospital, Ann Arbor, MI
1989 Oncology Externship, University of Nottingham, England
1989 - 1990 Internship, Pediatrics/Internal Medicine, University of Michigan
1990 - 1992 Residency, Pediatrics, University of Michigan, Ann Arbor, MI
1994 - 1997 Fellowship, Pediatric Cardiology, University of Iowa, Iowa City, IA
09/1997 - 05/2000 Parke – Davis/ Warner Lambert Pharmaceutical Research, 2800 Plymouth Rd, Ann Arbor, MI 48105
05/2000 - 01/2001 Director of Clinical Research, Project: Pediatric Cardiac Drug Development, Pfizer Global Research & Development, Ann Arbor, MI
02/2001 - 09/2002 Director, Experimental Medicine, Cardiovascular Research (hypertension, dyslipidemia, atherosclerosis, and thrombosis), Pfizer Global R & D, Ann Arbor, MI
07/2003 - 09/2003 Cardiac MRI Training, Harvard Medical School, Children’s Hospital Boston
01/2014 - 04/2014 Executive Education: Leadership from Analysis to Action, Stanford University, Stanford, CA
08/01/2019 - 08/01/2021 Mendoza College of Business, University of Notre Dame, South Bend, IN

FACULTY APPOINTMENTS:

07/1992 - 06/1994 Child Health Associates, Eisenhower Pkwy, Private Practice Pediatrics, Ann Arbor, MI
07/1992 - 06/1994 Clinical Associate, Department of Pediatrics, University of Michigan, Ann Arbor, MI
09/1997 - 03/2003 Adjunct Assistant Professor, Pediatric Cardiology, University of Michigan, Ann Arbor, MI
04/2003 - 07/2006 Associate Professor, Pediatric Cardiology, Director Pediatric Cardiac MRI, University of Florida, Gainesville, FL
08/2006 - 05/2012 Associate Professor, Pediatric Cardiology, Director, Cardiac MRI Research, Herma Heart Center, Medical College of Wisconsin, Children's Hospital of Wisconsin, Milwaukee, WI
02/2011 - Present Adjunct Associate Professor, Biomedical Engineering Department, Marquette University, Milwaukee, WI
07/2012 - Present Professor, Pediatrics, Cardiology, Medical College of Wisconsin, Milwaukee, WI

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

2007 - 2018 Chair - Collaborative Research Group Meeting, SCMR, Pediatric/Congenital Heart Section
2012 - 2013 Interview of Internship Candidates, Medical College of Wisconsin, Milwaukee, WI 53226
2015 - Present Grant Writting for Foundations Course, Medical College Of Wisconsin, Milwaukee, WI 53226

08/01/2017 - Present Chair, Pediatric Cardiology Scholarship Oversight Committee (SOC), Pediatrics, Cardiology, Medical College of Wisconsin, Milwaukee, WI 53226
11/2017 - Present Chair, Division of Cardiology (Pediatrics), Research Strategy Committee, Milwaukee, WI
10/2018 - Present Chair, Pediatric Fellowship Program, Scholarship Oversight Committee, Milwaukee, WI
2018 - Present Participant, Department of Pediatrics Grant Writing Seminar, Sheboygan, WI
2018 - Present Member, America College of Radiology
07/01/2023 - Present Assistant Dean for Scholarly Activities, Academic Affairs, Medical College of Wisconsin, Milwaukee, WI

HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:

04/2003 - 07/2006 Director, Pediatric MRI, University of Florida, Gainesville, FL
04/2003 - 07/2006 Director, Pediatric Cardiac Prevention Clinic, University of Florida, Gainesville, FL

RESEARCH ADMINISTRATIVE APPOINTMENTS:

08/2007 - 2014 Director, Cardiac MRI Research, Herma Heart Center, Milwaukee, WI

HOSPITAL STAFF PRIVILEGES:

07/1992 - 06/1994 Clinical Privileges, Newborn Associates, St. Joseph Mercy Hospital, Ann Arbor, MI
07/1992 - 06/1994 Clinical Associate, Department of Pediatrics, University of Michigan, Ann Arbor, MI
09/1997 - 12/2003 Adjunct Assistant Professor, Department of Pediatrics, Division of Pediatric Cardiology, University of Michigan, Ann Arbor, MI
1998 - 1999 Clinical Privileges, Pediatric Associates of Troy, Troy, MI
04/2003 - 07/2006 Associate Professor, Department of Pediatrics, Division of Pediatric Cardiology, University of Florida & Shands Hospital, Gainesville, FL
12/2003 - 07/2006 Joint Appointment, Radiology, University of Florida Health Sciences Center, FL
01/2004 - 07/2006 Staff Privileges, Wolfson Children's Hospital & Baptist Health Center, Jacksonville, FL
08/2006 - Present Children's Hospital of Wisconsin, Milwaukee, WI
07/2007 - Present Wheaton Franciscan Healthcare, St. Joseph's Hospital, 5000 W. Chambers, Milwaukee, WI 53210
2007 - Present Columbia St Mary's Hospital, 2025 E Newport Avenue, Milwaukee, WI 53211
2007 - Present Froedtert Memorial Lutheran Hospital, 9200 W. Wisconsin Ave., Milwaukee, WI 53226
2010 - Present Aurora Medical Center-Summit, 2350 Summit Avenue, Oconomowoc, WI 53066
2010 - 2020 Bellin Health, 744 South Webster Avenue, Green Bay, WI 54305
11/2011 - Present Telemedicine, Pediatric Cardiology, St. Vincent Hospital, Green Bay, WI
04/2012 - Present Telemedicine Staff Member, Cardiovascular & Critical Care Medicine, Aurora Baycare Medical Center, Green Bay, WI
05/23/2013 - Present Courtesy Staff, Specialty Medicine, Pediatric Cardiology, Waukesha Memorial Hospital, 725 American Avenue, Waukesha, WI 53188

SPECIALTY BOARDS AND CERTIFICATION:

Board Certified	Issue Date	Expiration
American Board of Pediatrics	1992	None
American Board of Pediatrics - Cardiology	08/2000	None

Certificates	Issued By	Issue Date	Expiration
BLS	AHA	02/19/2008	03/2023
PALS	AHA	02/19/2008	03/2023

Licensure	Number	Issue Date	Expiration
Michigan License	4301054417	06/16/1992	06/16/2023
Iowa License (expired)	30060	07/11/1994	07/31/2011
Florida License (expired)	ME 92658	02/18/2005	01/31/2011
Wisconsin License	49532-020	07/26/2006	10/31/2021

Illinois License (expired)	036.117589	2007	07/31/2017

AWARDS AND HONORS:

1981 Chemistry, Biology, and French Awards, University of Detroit
1981 - 1985 Trustees Scholarships, University of Detroit
1983 - 1984 Leo D. Cline Scholarship
1985 Alpha Epsilon Delta , Medical Honor Society
1985 American Chemical Society Award
1985 Alpha Sigma Nu , Jesuit Honor Society
1985 Phi Beta Kappa
1985 Chemistry, Biology and French Awards, University of Detroit
1985 Valedictorian, University of Detroit
1988 Alpha Omega Alpha
1989 Aesculapians , Wayne State University
1989 Janet M Glasgow Memorial Achievement Award (AMWA Award)
1989 Distinguished Service Award, Wayne State University School of Medicine
1991 Mead Johnson Award for Pediatric Research, Michigan Chapter of American Academy of Pediatrics
1994 - 1996 Fellow in Pediatric Cardiology, University of Iowa, National Institutes of Health
2009 Outstanding Medical Student Teacher Award - Evidence Based Medicine Course for M1 Students , Medical College of Wisconsin
2013 Top-Rated Doctors, Milwaukee Magazine
2015 Top-Rated Doctors, Milwaukee Magazine
2016 Top-Rated Doctors, Milwaukee Magazine
2019 - 2021 Forte Foundation Fellowship, University of Notre Dame Mendoza School of Business
2021 - Present Beta Gamma Sigma MBA Honor Society

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

1984 - Present Alpha Sigma Nu (National Jesuit University Honor Society) (Member)
1988 - Present Alpha Omega Alpha (Member)
1997 - Present American Academy of Pediatrics (Member)
1997 - Present American Heart Association (Member)
2001 - Present American College of Cardiology (Full Fellowship (FACC), granted autumn 2001)
2001 ACC Michigan Legislative Committee (Member)
2006 International Society of Magnetic Resonance in Medicine (Member)
2006 - Present Society of Cardiac Magentic Resonance Imaging (Congenital Heart Disease Group)
2007 - Present American Society of Echocardiography (Member)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Journal Review

05/2004 American Society for Gene Therapy Cardiovascular Research Abstracts
2010 Journal of the American Society of Echocardiography
2010 - 2011 American College of Cardiology (Abstract Reviewer)
2011 - Present Advisory Editorial Board: Pediatric Cardiology
2012 Midwest Pediatric Cardiology Society Meeting (abstract reviewer)
02/2022 Journal of Cardiovascular Magnetic Resonance
Annals of Internal Medicine
Journal of the American College of Cardiology
Journal of Pediatrics

Ad-Hoc Reviewer

2009 National Institutes of Health:SBIB-V(58)R-RFAOD-09-003 Challenge Grants Panel#23(J Firrell,Administrator)
2010 Children's Research Institute Pilot Innovative Research Grant, Children's Hospital of Wisconsin
2019 - 2021 Therapeutic Accelerator Program (TAP), Drug Discovery Center Department of Pharmacology & Toxicology, Medical College of Wisconsin
04/2021 Research Awards Selection Committee, 15th Annual Medical College of Wisconsin Fellows/Residents Research

04/2022 Research Awards Selection Committee, 16th Annual Medical College of Wisconsin Fellows/Residents
05/2022 Advancing a Healthier Wisconsin, 2022 Grant Reviewer

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2001 - Present Member, Michigan Legislative Committee, ACC
08/01/2014 - 2015 Member, Pediatric Cardiology Chief Search Committee, Medical College of Wisconsin
06/01/2015 - 05/01/2018 Representative, Faculty Affairs, Medical College of Wisconsin
08/2017 - 2019 Chair, Research Strategy Committee, Pediatric Cardiology, Medical College of Wisconsin
11/2017 - Present Chair, Pediatric Cardiology Fellowship Scholarship Oversight Committee, Medical College of Wisconsin
2019 - 2021 Ad hoc reviewer, Therapeutic Accelerator Program (TAP), Medical College of Wisconsin
12/2020 - 2021 Member, Search Committee, Herma Heart Institute Research Program Faculty Recruitment
04/01/2021 - 06/01/2022 Co-Chair, Search Committee for Pediatric Endocrinology Section Chief, Pediatrics
04/2021 - Present Member, Pediatric Faculty Promotions Committee, Medical College of Wisconsin
06/01/2021 - 06/30/2023 Member, Funds Flow, Children's Specialty Group (CSG)
01/01/2022 - 06/30/2023 Member, Compensation Committee, Children's Specialty Group (CSG)
07/01/2023 - Present member, Rank & Tenure Committee, Medical College of Wisconsin

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

09/1997 - 05/2000 Chair, CI 1023 Clinical Development Team, Parke – Davis/ Warner Lambert
09/1997 - 05/2000 Member, CI 1023 (AdGVVEGF121 Gene Therapy) Core Development Team, Parke – Davis/ Warner Lambert
01/1998 - 05/2000 Member, CI 1023 Publication Work Group, Parke – Davis/ Warner Lambert
01/1998 - 05/2000 Member, CI 1023 Device Task Force, Parke – Davis/ Warner Lambert
2001 - 2002 Member, Global Cardiovascular Strategy Team, Pfizer Global Research & Development
2001 - 2002 Member, Ann Arbor Cardiovascular Discovery Team, Pfizer Global Research & Development
2001 - 2002 Member, Sub Team on RAM Prioritization, Pfizer Global Research & Development
2001 - 2002 Member, Sub Team on Technology Support, Pfizer Global Research & Development
2001 Chair, Sub Team on Cardiovascular Imaging, Pfizer Global Research & Development
2001 - 2002 Member, Global Cardiovascular Product Licensing Team, Pfizer Global Research & Development
2001 - 2002 Member, Sub Team on CV Strategy, Pfizer Global Research & Development
2001 - 2002 Member, Preclinical Protocol Review Committee Thrombosis Related Compounds, Pfizer Global Research & Development
2001 - 2002 Member, Ann Arbor CV New Targets Team, Pfizer Global Research & Development
2001 - 2002 Member, Pediatric Advisory Council, Pfizer Global Research & Development
2001 - 2002 Member, CV Biomarker Strategy Team, Pfizer Global Research & Development
01/2005 - 07/2006 Member, Data Safety and Monitoring Committee (DSMB) for the General Clinical Research Center (GCRC), University of Florida
2006 - Present Member, Congenital Heart Disease Sub Committee, Society of Cardiac Magnetic Resonance Imaging
2008 - 2011 Co-Chair, Pediatric Normative Data Sub Committee, Society of Cardiac Magnetic Resonance Imaging
2010 - 2017 Member, Pediatric /Congenital Heart Steering Committee, Society of Cardiac Magnetic Resonance Imaging
2018 - 2024 Expert Panel Member, American College of Radiology (ACR) Committee on Appropriateness Criteria

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title:	Predictive Modeling of Acute Rejection in Pediatric Heart Transplant Recipients
Source:	National Institutes of Health
Role & Effort:	Co-PI

PI: Jonathan Soslow MD MSCI, Margaret Samyn MD MBA, Bruce Damon PhD
Dates: 07/15/2022 - 06/30/2027
Direct Funds: $3,300,000

Prior

Peer Review

Title: Cardiac MRI Assessment of Early Atherosclerosis in Pediatric Type I and 2 (T1DM & T2DM) Diabetes
Source: Children's Miracle Network Grant Award
Role & Effort: Principal Investigator
PI: Self
Dates: 2005
Direct Funds: $16,000

Title: Pediatric Atorvastatin in Diabetes Intervention Trial (PADIT)
Source: NIH GCRC Grant M-01 RR 000082
Role & Effort: Consultant
PI: Dr. Michael Haller
Dates: 2005 - 2006
Direct Funds: $26,445

Title: Pediatric Atorvastatin in Diabetes Intervention Trial (PADIT)
Source: NIH
Role & Effort: Consultant
PI: Dr. Michael Haller
Dates: 2005 - 2007
Direct Funds: $87,456

Title: Cardiac Magnetic Resonance Imaging Assessment of Early Atherosclerosis in Pediatric Type 1 Diabetic, Type 2 Diabetic, and Metabolic Syndrome Patients
Source: Children's Research Institute, Milwaukee
Role & Effort: Principal Investigator
PI: Self
Dates: 2007 - 2009
Direct Funds: $30,000

Title: Quantifying Altered Hemodynamics in Response to Stenting for
Source: NIH Subcontract, National Heart, Lung, and Blood Institute
Role & Effort: Co-Principal Investigator
Dates: 05/15/2009 - 04/30/2011
Direct Funds: $21,498

Title: Translating Near Infrared Spectroscopy (NIRS) Oxygen Saturation Data for the Noninvasive Prediction of Spatial and

	Temporal Hemodynamics During Exercise
Source:	American Heart Association Midwest Affiliate Postdoctoral Fellowship
Role & Effort:	Consultant
PI:	Dr. Laura Ellwein
Dates:	07/01/2010 - 06/30/2012
Direct Funds:	$8,000
Title:	Optimization of Cardiovascular Magnetic Resonance Imaging in Pediatric Patients
Source:	Siemens MRI Research Agreement
Role & Effort:	Principal Investigator
Dates:	03/01/2012 - 02/28/2016
Title:	Optimization of Cardiovascular Magnetic Resonance Imaging in Pediatric Patients
Source:	Siemens MRI Research Agreement
Role & Effort:	Principal Investigator
Dates:	03/01/2012 - 02/28/2016
Title:	Characterization of the Systemic Right Ventricle for Patients with Transposition of the great arteries
Source:	NHLBI T35 grant (managed by Seema B Semovitz, MSEd, Program Manager Medical Student Summer Research Program and LCMW Associate Coordinator
Role & Effort:	Principal Investigator, mentoring summer student
Dates:	06/01/2015 - 08/14/2015
Direct Funds:	$5,000 (Stipend to fund summer student Conor Masterson M1, MCW)
Title:	Evaluation of Myocardial T1 Mapping and Extracellular Volume (ECV) After Pediatric Heart Transplantation: A Pilot Study
Source:	NHLBI T35 HL072483 grant (Medical Student Summer Research Program)
Role & Effort:	Mentor, MCW summer student
PI:	David R Harder PhD with coordinator Seema B. Semovitz MSEd
Dates:	06/01/2017 - 09/14/2017
Direct Funds:	$5,000 (Stipend to fund summer student Adam Gordon M2, MCW)

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

International

MRI Assessment of the Single Ventricle, Society for Cardiac Magnetic Resonance (SCMR) Scientific Sessions, Nice, France, 02/05/2011

Ventricular Function: Acquisition and Interpretation, Society for Cardiac Magnetic Resonance (SCMR) Scientific, Nice, France, 02/05/2015

Evaluation of Myocardial T1 Mapping and Extracellular Volume (ECV) After Pediatric Heart Transplantation. Adam Gordon BS, Ann Punnoose MD, Ke Yan PhD, Benjamin Goot MD, Joseph R Cava MD PhD, Mary Krolikowski MS, Steve Kindel MD, and Margaret M Samyn MD, The Joint EuroCMR*/SCMR Meeting, Barcelona, Spain, 01/31/2018 - 02/02/2018

Imaging Children with Pacemakers, Society for Cardiovascular Magnetic Resonance Virtual Annual Scientific Sessions, 02/03/2022

Margaret Samyn, Ke Yan, Kristen George-Durrett, Justin Godown, Kimberly Crum, Maryanne Chrisant, Kak-Chen Chan, David Bearl, Debra Dodd, Lazaro Hernandez, Jonathan Soslow, Bruce Damon, Texture Analysis Identifies Significant Pattern Differences in Pediatric Transplant Recipients with and without Acute Rejection, International Society of Magnetic Resonance in Medicine, London England, 05/10/2022

Cardiac Relaxometry: Biological & Clinical Value, International Society of Magnetic Resonance in Medicine, London England, 05/10/2022

Cardiac Magnetic Resonance Imaging for Patients with Pacemakers, International Society of Magnetic Resonance in Medicine (ISMRM), Toronto Canada, 06/08/2023

Imaging heart transplant patients with MRI, 1st Athens Symposium on Advanced Imaging in Pediatric and Adult Congenital Heart Disease: State of the Art, Athens, Greece, 10/04/2024

National

Gene Therapy for Angiogenesis, Hartford Hospital 15th Annual Cardiovascular Symposium, Hartford, CT, 10/1999

Optimizing Pharmaceutical to Patient Care Center Interactions in Pediatric Recruitment, Barnett International Conference Group, Philadelphia, PA, 03/07/2002

Pediatric Clinical Trials, Barnett International Conference, Philadelphia, PA, 09/18/2002 - 09/20/2002

Pediatric Recruitment, Barnett International Conference, Philadelphia, PA, 03/10/2003 - 03/11/2003

Pediatric Congestive Heart Failure Research in the ICU Setting, Pediatric Intensive Care Unit, University of Florida, Gainesville, FL, 05/09/2003

Partnering for Expertise: Pharmaceutical Industry Collaborating with Academic Medical Centers for Successful Pediatric Trials, Barnett International Conference, Pediatric Clinical Trials, Philadelphia, PA, 11/19/2003 - 11/20/2003

Preventive Cardiology When to refer?, Pediatric Grand Rounds: University of Florida, Gainesville, FL, 12/12/2003

Pediatric Clinical Trials, Barnett International Conference, Philadelphia, PA, 03/31/2004 - 04/01/2004

Preventive Cardiology, Fellows Conference, University of Florida, 05/13/2004

Congenital Heart Disease in Children and Adolescents, The Osler Institute Pediatric Board Review Course and Cardiac Problems Associated with Systemic Disease, Tampa, FL, 06/02/2004

MRI Evaluation of the Right Ventricular Anatomy and Function in Tetralogy of Fallot, Southeast Pediatric Cardiology Society Meeting, Howey – in – the Hills, FL, 09/08/2004 - 09/11/2004

The Value of Cardiac MR/CT for Pediatric Cardiology, North American Society of Cardiac Imaging, Amelia Island, FL, 10/02/2004 - 10/05/2004

Cardiac MRI/ MRA for Congenital Heart Disease, Pediatric Grand Rounds University of Florida, Gainesville, FL, 02/11/2005

Congenital Heart Disease, Medical Student Lecture. University of Florida, Gainesville, FL, 02/14/2005

Radiology Hot Seats. Pediatric Cardiac MRI – Interesting Cases, University of Florida. Hilton Hotel, Gainesville, FL, 04/23/2005 - 04/24/2005

Congenital Heart Disease in Children and Adolescents and Cardiac Problems Associated with Systemic Disease and The Pediatric Cardiovascular Physical Examination, The Osler Institute Pediatric Board Review Course, Tampa, FL, 05/22/2005

Functional Cardiac Magnetic Resonance Imaging (CMRI): Right Ventricular Evaluation in Congenital Heart Disease (CHD) Patients, North American Society of Cardiac Imaging, Amelia Island, FL, 10/10/2005

Cardiac MRI/ MRA for Congenital Heart Disease, University of Florida: MRI for Technologists, Gainesville, FL, 11/19/2005

Pediatric Cardiology as a Career, University of Florida Mentoring Conference for Pediatrics Residents, 12/01/2005

Managing and Facilitating Clinical Trial for the Pediatric Community., Marcus Evans 2nd Annual Pediatric Clinical Trials Conference, Cambridge, MA, 12/06/2005

“Radiology Hot Seats.” “Cardiac MRI for Congenital Heart Disease.”, Radiology Board Review Courses,

University of Florida, Gainesville, FL, 04/05/2006 - 04/09/2006

Radiology Hot Seats and Cardiac MRI for Congenital Heart Disease, Radiology Board Review Courses, University of Florida, Gainesville, FL, 04/26/2006 - 04/30/2006

Adult Congenital Heart Disease: MRI versus Echocardiography, Echocardiography Conference for Technologists, University of Florida, 04/29/2006

Cardiac Magnetic Resonance Imaging (cMRI) Assessment of Early Atherosclerosis in Pediatric Type 1 Diabetic (T1DM), Type 2 Diabetic (T2DM), and Metabolic Syndrome, Children's Hospital of Philadelphia/ University of Pennsylvania, Guest of Drs Mark Fogel & Robert Shaddy, Children's Hospital of Philadelphia, 11/2008

Ventricular Volumes: How to Get and How to Interpret Them (Pediatric CMR Tools Session), Society for Cardiovascular Magnetic Resonance (SCMR) 16th Annual Scientific Sessions, San Francisco, California, 01/30/2013 - 02/03/2013

Translating near-infrared spectroscopy O2 saturation data for the non-invasive prediction of spatial and temporal hemodynamics during exercise, Ellwein L, Samyn M, Danduran M, Schindler-Ivens S, Leibham S, Ladisa JF, Jr, Society of Mathematical Biology Annual Meeting, Atlanta, GA, 2015

Moderator: Pediatric/ Congenital Heart Collaborative Research Meeting., Society for Cardiovascular Magnetic Resonance (SCMR) 22nd Annual Meeting., Bellevue Washington, 02/08/2019

CMR Evaluation of Cardiac Tumors in Children, Society of Cardiovascular Magnetic Resonance (SCMR), Seattle, WA, 02/2019

Samyn M, Haviland B, Huseman A, Turner J, Van Pelt T, Warner K, Patent Infringement, University of Notre Dame Mendoza School of Business, 09/07/2020

Samyn M, Huseman A, Haviland B, Turner J, Van Pelt T, Warner K, Gender Equality in Leadership, University of Notre Dame Mendoza School of Business, 10/09/2020

Samyn M, Huseman A, Haviland B, Turner J, Van Pelt T, Warner K, Strategic Forecast - Scenerios of the Future, University of Notre Dame Mendoza School of Business, 11/19/2020

Imaging for Heart Transplant Rejection, 16th Society for Pediatric Radiology (SPR) Advanced Symposium on Pediatric Cardiovascular Imaging, Virtual presentation, 06/05/2021

A Single Institution Experience: Cardiac Magnetic Resonance Imaging (MRI) in Children is Safe with Most Pacemaker Systems, Including Those with Epicardial Leads., Congenital CMR Case Conference (C4), Society for Cardiovascular Magnetic Resonance, Virtual Presentation, 10/12/2021

Regional

William Stewart Halsted, Lecture, Surgery Conference, Historical Presentation, Harper Hospital, Wayne State University; Detroit, MI, 12/1987

Septic Shock, Lecture, Pediatrics Grand Rounds, University of Michigan, 02/1991

Children's Views of Cancer (Presentation of Work done at UCLA with Lonnie Zeltzer, M.D.), Michigan Chapter of the American Academy of Pediatrics, Traverse City, MI, 07/1991

Office Practice Cardiology, Resident Teaching Conference, University of Iowa, 11/1996

Subacute Bacterial Endocarditis, Invited Speaker, University of Iowa Dental School, 02/1997

Influence of Bicuspid Aortic Valve on Surgical Intervention for Subaortic Obstruction, Samyn MM, Burns TL, Delius RE, Behrendt DM, Invited Speaker - Midwest Pediatric Cardiology Society 21st Annual Scientific Session, Washington University School of Medicine, St. Louis, 09/1997

Gene Therapy and Cardiovascular Disease, St Joseph Mercy Hospital Grand Rounds, Ann Arbor, MI, 09/1998

Will Gene Therapy Replace CABG and TMR?, Beaumont Hospital Interventional Cardiology Symposium, Dearborn, MI, 09/1998

Hyperlipidemia and Hypertension in Children, University of Michigan Residents' Conference, Ann Arbor, MI, 10/1998

Pediatric Preventive Cardiology, University of Michigan Residents' Conference, Ann Arbor, MI, 11/2000

Pediatric Pharmaceutical Development: Dawning of a New Era, University of Michigan Department of Pediatric Cardiology Monday Conference, Ann Arbor, MI, 01/2002

Office Practice Cardiology East Ann Arbor Health Center, East Ann Arbor Health Center University of Michigan Department of Pediatrics, Ann Arbor, MI, 02/28/2002

Preventative Cardiology, University of Michigan Residency Program, Ann Arbor, MI, 05/09/2002

Pharmaceutical Research – Addressing the Needs of Pediatric Patients, Grand Rounds: University of Michigan Department of Pediatrics, Ann Arbor, MI, 07/23/2002

Pharmaceutical Development: Reasons to Participate, Grand Rounds: University of Iowa Hospitals and

Clinics, Iowa City, IA, 10/11/2002

Childhood Obesity: Scope and Long – term Consequences, Michigan Department of Community Health Conference, Eat Healthy + Play Hard = Smart Kids, Lansing, MI, 04/15/2003

Congenital Heart Disease MRI for Radiologists, Video Conference, University of Florida, Gainesville, FL, 01/25/2006

What Should the Primary Care Practitioner Know About Cardiac MRI? MRI for Pediatric Heart Disease, Condell Medical Center Grand Rounds, Libertyville, IL, 06/17/2008

Cardiac Magnetic Resonance Imaging, Marshfield Clinic Grand Rounds, Marshfield, WI, 03/20/2009

Cardiac MRI: Considerations for Biomedical Engineers, Brotz Seminar Series, Biomedical Engineering Department, Milwaukee, WI, 09/18/2009

Cardiac Magnetic Resonance Imaging Can Detect Early Vascular Changes in Children with Type I Diabetes (T1DM), Samyn M, Simpson P, Widlansky M, Leibham S, Cava J, Krolikowski M, Moore S, LaDisa J, Alemzadeh R, Abstract Oral Presentation - 34th Annual Midwest Pediatric Cardiology Society Scientific Session, Indianapolis, IN, 09/24/2010

Restrictive versus Nonrestrictive Physiology Following Repair of Tetralogy of Fallot: Is there a Difference? Samyn M, Kwon E, Gorentz J, Yan K, Cava J, Simpson P, Frommelt P, Tweddell J, 2nd Annual Joint Conference on Advances in Pediatric Cardiothoracic Disease Management, Grand Traverse, MI, 09/22/2012

Impact of service learning on medical students' attitudes toward healthcare for the homeless, Spindler D, Meurer L, Diehr S, Samyn M, Family Medicine Midwest 2013 Conference, Milwaukee, WI, 10/05/2013

Novel Applications of Cardiovascular Magnetic Resonance Imaging Computational Fluid Dynamics Modeling: From Congenital Heart Disease to Acquired Heart Disease, Olin Engineering Buildling, Marquette University, 02/05/2016

Evaluation of Myocardial T1 Mapping and Extracellular Volume (ECV) After Pediatric Heart Transplantation. Gordon A, Goot B, Punnoose A. Yan K, Cava JR, Krolikowski M, Kindel S, Samyn MM, Midwest Society Meeting (presented on behalf of medical student A. Gordon), St Louis MO, 09/08/2017

Local

MRI Assessment of Tetralogy of Fallot, Children's Hospital of Wisconsin Herma Heart Center Journal Club, Milwaukee, WI, 12/2006

Magnetic Resonance Imaging (CMRI): Beyond Anatomy, Cardiology Fellowship Core Lecture Cardiac, Children's Hospital of Wisconsin, 02/2007

Preventive Cardiology, Children's Hospital of Wisconsin Fellowship Core Lecture, Milwaukee, WI, 05/2007

Clinical Research Using Cardiac Magnetic Resonance Imaging (CMRI), Children's Hospital of Wisconsin/ Medical College of Wisconsin Grand Rounds, Milwaukee, WI, 05/2007

Cardiac Magnetic Resonance Imaging (CMRI) in Congenital Heart Disease (CHD) Patients, Children's Hospital of Wisconsin Cardiology Fellow Lecture, Milwaukee, WI, 08/2007

Premature Atherosclerosis Associated with Systemic Lupus Erythematosis (SLE), Journal Club, Division of Rheumatology, Children's Hospital of Wisconsin, Milwaukee, WI, 05/01/2008

Cardiac MRI: Flow Assessment, Lecture for Pediatric Cardiology Fellows. Herma Heart Center, Milwaukee, WI, 01/07/2009

Cardiac Magnetic Resonance Imaging (cMRI) Assessment of Early Atherosclerosis in Pediatric Type 1 Diabetic (T1DM), Type 2 Diabetic (T2DM), and Metabolic Syndrome Patients, Medical College of Wisconsin First Annual Cardiovascular Translational Research Symposium, Milwaukee, WI, 01/09/2009

Cardiac Magnetic Resonance Imaging, Marshfield Clinic, Grand Rounds, Marshfield, WI, 03/20/2009

2009 NIH Challenge Grant: Cardiac Magnet Resonance Imaging (CMR) Assessment of Early Atherosclerosis in Pediatric Patients, Herma Heart Center Cardiac Research Focus Meeting, Milwaukee, WI, 05/12/2009

Cardiac MRI of Coarctation of the Aorta, Lecture for CMR Staff and Cardiology fellows: Children's Hospital of Wisconsin, Milwaukee, WI, 09/17/2009

Cardiac MRI: Considerations for Biomedical Engineers, Brotz Seminar Series, Marquette University Biomedical Engineering Department, Milwaukee, WI, 09/18/2009

Safe and Effective Cardiac Magnetic Resonance Imaging of Infants, Journal Review of Relevant Literature, Cardiology Case Review Meeting, Children's Hospital of Wisconsin (with Eckehard Stuth and David

Hehir), 02/2010

Value of Cardiac MRI in Unique Cardiomyopathies: Arrhythmogenic Right Ventricular Dysplasia and Left Ventricular Non-compaction, Fellow Lecture, Children's Hospital of Wisconsin, 05/05/2010

Cardiac Magnetic Resonance Imaging Can Detect Early Vascular Changes in Diabetic Children, Children's Research Institute Diabetes Symposium, Milwaukee, WI, 05/14/2010

Cardiac Magnetic Resonance Imaging Can Detect Early Vascular Changes in Diabetic Children, Herma Heart Center Grand Rounds, Milwaukee, WI, 06/02/2010

Cardiac Magnetic Resonance Imaging Can Detect Early Vascular Changes in Diabetic Children, Froedtert Hospital Cardiovascular Center Vascular Biology Affinity Working Group Meeting, Milwaukee, WI, 06/14/2010

How Does Cardiac Magnetic Resonance (CMR) Imaging Aid Management of Congenital Heart Disease?, Marquette University Department of Biomedical Engineering, Milwaukee, WI, 03/28/2011

Cardiac MRI for Assessing Left Ventrical Non-Compaction, Froedtert Hospital & Children's Hospital of Wisconsin Joint Cardiovascular Magnetic Resonance Imaging Conference, Froedtert Hospital, 03/18/2015

Utility of Magnetic Resonance Imaging in Cardiomyopathies, Fellow Lecture, Medical College of Wisconsin, 05/18/2015

Novel Application of Cardiovascular Magnetic Resonance Imaging Computational Fluid Dynamics Modeling: From Congenital Heart Disease to Acquired Heart Disease, Quality Improvement / Research Conference, Children's Hospital of Wisconsin, 11/17/2015

The State of MRI Research, Quality Improvement / Research Conference, Children's Hospital of Wisconsin, 11/22/2016

Multi-Center evaluation of Patients with d-Transposition of the Great Arteries status post Atrial Switch, MCW, K Club Presentation, Department of Pediatrics, 2016

Myocardial Tissue Characterization by Cardiac Magnetic Resonance Imaging, Children's Hospital of Wisconsin, 03/07/2017

Cardiac Manifestations of Rheumatologic Diseases, Rheumatology Division Lecture, Children's Hospital of Wisconsin, 05/11/2017

Cardiac Magnetic Resonance Imaging for Diagnosis of Cardiovascular Disease, Herma Heart Institute Talk for Summer Research Students, Children's Hospital of Wisconsin, 06/12/2018

Samyn, MM; Cava, JR; Goot, B.; Gerardin, J., Cardiac MRI Research - State of the Art, QI/Research Conference, Children's Hospital of Wisconsin, Herma Heart Institute, 09/25/2018

Cardiac Magnetic Resonance Evaluation of Cardiac Tumors, QI/Research Conference, Children's Hospital of WI; Herma Heart Institute, 01/29/2019

Patel, C. and Samyn, MM, CMR Evaluation of Single Ventricle Patients, Froedtert Cardiology, 02/26/2019

Hypertension and Hyperlipidemia, Herma Heart Institute Fellow Core Conference, Children's Hospital of Wisconsin, 06/10/2019

Herma Heart Institute MSSRP Zoom Presentation: Cardiac Meagnetic Resonance Imaging: From Basic Physics to Functional Imaging and Myocardial Characterization, 07/10/2020

Virtual Career Presentation for MPS Middle School Students, Virtual, 07/20/2021

Margaret Samyn, Jonathan Sosolow, Bruce Damon, NIH R01 Multi-PI Proposal: Predictive Modeling of Acute Rejection in Pediatric Heart Transplant Recipients, Scholarship in Progress Seminar, Department of Pediatrics, Virtual presentation, 11/08/2021

Cardiac MRI Potpourri: Invited Talks from SCMR and ISMRM - Cardiac Imaging for Patients with Pacemakers & Using Parametric Imaging Techniques, QOR Seminar Series, Milwaukee WI, 06/28/2022

Cardiac MRI 101: Introduction for Medical Students, Herma Heart Institute Summer Research Program, Milwaukee WI, 07/07/2022

Cardiac MRI for Tissue Characterization, Detecting Transplant Rejection and More, Department of Pediatrics Grand Rounds, Milwaukee WI, 02/10/2023 - Present

COMMITTEE SERVICE:

Medical College of Wisconsin

2004 - 2006 Member, Data Safety and Monitoring Committee General Clinical Research Center, University of Florida

2006 - 2008 Member, Pediatric Resident Interview, Medical College of Wisconsin

2006 - 2007 Member, Quality Improvement Project Coordinator for Fellows, Medical College of Wisconsin
2007 - 2008 Member, CSG Quality Service Committee, Medical College of Wisconsin
2007 Member, Consultation Guideline Subcommittee, CSG Quality Service, Medical College of Wisconsin
2007 - 2010 Member, Advisor Program for Pediatric Interns, Medical College of Wisconsin
2009 - 2010 Member, Parliamentary Committee, Children's Hospital of Wisconsin
2010 - 12/30/2018 Member, Credentials Committee, Children's Hospital of Wisconsin
2010 Member, Clinical Effectiveness Research Task Force, Children's Hospital of Wisconsin
2012 Member, Intern Selection, Medical College of Wisconsin/Children's Hospital of Wisconsin
2014 - 05/2015 Alternate, Faculty Council, Medical College of Wisconsin
2014 - 2015 Member, Search Committee, Pediatric Cardiology, Medical College of Wisconsin
06/01/2015 - 05/01/2018 Representative, Faculty Council, Medical College of Wisconsin
06/2018 - 06/Present Reviewer, Therapeutic Accelerator Program (TAP) Research Proposals, Drug Discovery Center, Department of Pharmacology & Toxicology, Medical College of Wisconsin
07/01/2023 - Present member, Rank & Tenure Committee, Medical College of Wisconsin

MCW TEACHING ACTIVITIES:

Medical Student Education

01/2009 - 05/2009 Instructor for Medical College of Wisconsin Course CC 002 Foundations of Evidence Based Medicine
09/2009 - 11/2009 Instructor for Course CC002 Foundations of Evidence Based Medicine (Course Director: Linda Meurer, MD Department of Family Medicine)
10/27/2010 Case Based Discussion 2 at Medical College of Wisconsin: Atherosclerosis in Diabetes with Dr Jung-JA Kim (Biochemistry faculty)
07/2013 - 06/2014 Phoebe Jensen (M1) - Mentor
09/01/2013 Lecturer for M2 Class, Cardiovascular Modules, Tetralogy of Fallot
10/17/2014 Lecturer for M2 Class, Cardiovascular Modules, Tetralogy of Fallot
10/17/2016 Lecturer for M2 Class, Cardiovascular Modules, Tetralogy of Fallot

EXTRAMURAL TEACHING:

Medical Student Education

08/2006 - Present Medical College of Wisconsin, Active in teaching medical students on the cardiology inpatient (4th floor ward) and outpatient cardiology clinic
05/2009 - 04/2010 Children's Hospital of Wisconsin, General Pediatric Ward Attending
09/2009 Marquette University, Invited speaker, Brotz Seminar Series, Biomedical Engineering Department. "Cardiac MRI: Considerations for Biomedical Engineers," Milwaukee, Wisconsin

Resident and Fellow Education

08/2006 - Present Children's Hospital of Wisconsin, Active in teaching radiology technicians and cardiology fellows how to perform diagnostic cardiac MRI/ MRA studies for congenital heart disease
08/2006 - 06/2021 Medical College of Wisconsin, Participate in Echocardiography Laboratory QA and case presentations/ teaching
2006 - 2021 Medical College of Wisconsin/ Children's Hospital of Wisconsin, Pediatric Cardiology Inpatient Attending

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Medical Students

06/2007 - 09/2007 Karla Wehrheim, Research mentor for MCW summer student Project: Retrospective review of the management of pediatric and young adult patients with aortic valve regurgitation, Medical College of Wisconsin
06/2008 - 09/2008 Angela Schnell, Research mentor for MCW summer student: Retrospective review of clinical status of post operative patients with systemic right ventricle: "The systemic right ventricle: Are atrial switch and Fontan patients similar?", Medical College of Wisconsin

06/2011 - 08/2011 Derek Spindler, Research mentor for MCW summer student Project: Retrospective review of pediatric patient characteristics and outcomes after the “New Ross”procedure for aortic regurgitation., Medical College of Wisconsin
2011 Derek Spindler, MCW Core Pathways Advisor, Medical College of Wisconsin
07/2013 - 06/2014 Phoebe Jensen (M1), Mentor, Medical College of Wisconsin
07/2014 - 06/2015 Phoebe Jensen (M2), Clinical Apprenticeship, Medical College of Wisconsin
2014 Daniel Lee (M3), Mentor, Medical College of Wisconsin
2014 - 2018 Conor Masterson (M1), Mentor Physician Scientist MCW Pathway and 2015 summer research mentor - Transposition of Great Arteries Project, Medical College of Wisconsin
01/2015 - 04/2015 Kristi Weinmeister (M1), Clinical Apprentiship, Medical College of Wisconsin
06/2017 - 05/2018 Adam Gordon (M2), Medical College of WI, Mentor Physician Scientist MCW Pathway and 2017 summer research mentor - CMR for Cardiac Allograft Assessment
06/2018 - Present Madeline Bireley (M2), Pathways student, Medical College of Wisconsin

Clinical/Research Fellows

09/2006 - 06/2007 Shelby Kutty, MD, Outpatient cardiology clinic mentor, Medical College of Wisconsin
08/2007 - 09/2009 Jennifer Co-Vu, Research mentor for prospective MRI study of early atherosclerosis in at-risk pediatric populations, Medical College of Wisconsin
08/2007 - 06/2010 Elena Kwon, MD, Research Mentor, Medical College of Wisconsin
2007 - 2010 Elena Kwon, MD, MCW Cardiology Fellow Scholarship Oversight Committee Member, Medical College of Wisconsin
07/2008 - 06/2009 David Saudek, MD, MRI Mentor for 4th year imaging fellowship, Medical College of Wisconsin
2008 - 2011 Joseph Camarda, MD, MCW Cardiology Fellow Scholarship Oversight Committee Member, Medical College of Wisconsin
03/2009 - 2012 Joseph Camarda, MD, Research mentor for study of aortic flow characteristics in Marfan patients, Medical College of Wisconsin
07/2012 - 06/2013 Joseph Camarda, MD, Mentor - 4th year imaging fellowship, Medical College of Wisconsin
07/2013 - 06/2014 Daniel Cox, MD, Scholarship Oversight Committee Member, Medical College of Wisconsin
07/2013 - 06/2014 Garick Hill, MD, Mentor - 4th year imaging fellowship, Medical College of Wisconsin
2013 - 2014 Chad Mackman, MD, Mentor for case series of cor triatriatum dexter patients, Medical College of Wisconsin
07/2014 - 06/2014 Mamata Eagam, MD, Scholarship Oversight Committee Member, Medical College of Wisconsin
07/2014 - 06/2015 Christen Chamberland, MD, Mentor - 4th year imaging fellowship, Medical College of Wisconsin
07/01/2016 - 06/30/2017 Karla Wehrheim, MD, Mentor - 4th year Pediatric Cardiology Imaging Fellow, Medical College of Wisconsin
07/01/2016 - 06/30/2018 Margaret Keane, MD, Clinical mentor / research mentor - CMR for VVI, Medical College of WI
07/01/2017 - 06/30/2017 Shagun Sachdeva, MD, 4th year imaging fellowship MRI mentor, Medical College of Wisconsin

Residents

2007 - 2010 Laura Norton, MD, Resident Advisor, Medical College of Wisconsin
2008 - 2011 Tan Wyllie, MD, Resident Advisor, Medical College of Wisconsin
2010 - 2012 Steffany Moen, MD, Resident Advisor, Medical College of Wisconsin
2014 - 2015 Keowa Bonilla, MD, Resident Advisor, Medical College of Wisconsin

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

Graduate Students

PhD Students Advised

2008 - 2011 David Wendell, BS, Biomedical Engineering PhD Advisory Committee Member Project:

"Incorporating the Aortic Valve in Computational Fluid Dynamic Models Using Phase Contrast Magnetic Resonance Imaging and Valve Tracking", Marquette University

2011 - 05/2012 Arjun Menon, Biomedical Engineering PhD Advisory Committee Member Project: Computational fluid dynamics modeling for a rabbit model of aortic coarctation, Marquette University

MS Students Advised

2009 - 2010 Ronak Dholakia, Biomedical Engineering Masters Thesis Committee Member Project: "Numerical Modeling of Hemodynamics in the Thoracic Aorta and Alterations by Dacron Patch Treatment of Aortic Coarctation"), Marquette University

05/2011 - 06/2012 Sung Kwon, Biomedical Engineering Masters Thesis Committee Member, Marquette University

2019 - 2021 Aloma Blanch Granada, Marquette University, Olin College of Engineering, Master of Science Degree, Biomedical Engineering

Postdoctoral Researchers

2009 - 2012 Laura Ellwein, PhD, Consultant for American Heart Association Midwest Affiliate Grant: "Near Infrared Spectroscopy (NIRS) as a Measure of Vascular Dynamics duirng Exercise, and its Use in Computational Fluid Dynamic (CFD) Modeling", awarded May 2010, Marquette University

Clinical/Research Fellows

2004 - 2006 Nisha Surenderanath, MD, Pediatric Cardiology, University of Florida, Research Mentor

2004 - 2006 Michael Haller, MD, NIH Grant Mentor Pediatric Endocrinology Fellow, University of Florida

2004 - 2006 Faris Al-Mousily, MD, Pediatric Cardiology Fellow, University of Florida, MRI and Research Mentor

PROGRAMMATIC DEVELOPMENTS:

Clinical Programs

2004 - 2006 Cardiac Prevention Program, University of Florida Gainesville

2004 - 2006 Cardiac MRI Program, University of Florida Gainesville

COMMUNITY SERVICE ACTIVITIES:

1998 Founding Member Operation Smile Southeastern Michigan Chapter

1999 - 2014 St Vincent de Paul Society: Thanksgiving Meals for the Needy, Pontiac, Michigan

1999 - 2003 Annual Speaker for Explorathon: Career Symposium for Southeastern Michigan High School Students Workshop: "And the Beat Goes On: Pediatric Cardiology"

2000 - 2002 AMWA Mentorship Program, University of Michigan Medical School

2000 - 2002 Biology Advisory Committee, University of Detroit Mercy

2001 - 2002 Instructor: Catechism St Francis of Assisi Parish – First grade class

2001 - 2003 American College of Cardiology, Michigan Legislative Committee member

04/2005 Boggy Creek Heart Camp, Parents' Weekend Volunteer

2005 - 2006 American Heart Association, Florida Chapter, Community Board member

08/2008 Children's Hospital of Wisconsin, Herma Heart Center Annual Zoo Picnic

05/22/2010 David A. Lewis Family Education Day, "Ask the Experts" panel member

2016 Established the Margaret M Samyn Science Scholarship Program - providing annual tuition award to an undergraduate science major at the University of Detroit Mercy (Detroit, Michigan)

2016 Established the Samyn/ Akao Science Scholarship, providing an annual (renewable) tuition awards for students at Marian High School (Birmingham, Michigan)

2021 - 2025 Dean's Advisory Board, College of Engineering & Science, University of Detroit Mercy (Detroit, Michigan)

EMPLOYMENT:

09/1997 - 05/2000 Parke - Davis/Warner Lambert 2800 Plymouth Road Ann Arbor, MI 48105 Director of Clinical Research, Cardiovascular. Project: Gene Therapy for Angiogenesis (CI 1023) AD GV VEGF 121

05/2000 - 03/2003 Pfizer Global Research & Development 2800 Plymouth Road; Ann Arbor, MI 48105

2000 - 2003 Director of Clinical Research Projectc: Pediatric Drug Development for Cardiology

02/2001 - 09/2002 Pfizer: Director, Experimental Medicine (Clinical Sciences). Projects: Cardiovascular research including projects in hypertension, dyslipidemia, atherosclerosis, and thrombosis; Cardiac imaging & soluble biomarker research.

FDA / NIH ACCEPTED PHARMACEUTICAL INDUSTRY CLINICAL PROTOCOLS:

1999 - 2000 Protocol 1023 – 020 A Phase II, Randomized, Multicenter, 26 – Week Study to Assess the efficacy and Safety of CI 1023 Delivered Through Minimally Invasive Surgery Versus Maximal Medical Therapy in Patients with Sever Angina, Advanced Coronary Artery Disease, and No Options for Revascularization

1999 - 2000 Protocol 1023 – 005 A Double Blind, Randomized, Placebo – Controlled, Dose Ranging, 26 Week Study to Assess the safety and Efficacy of CI 1023 (AdGVVEGF 121.10) in Peripheral Arterial Disease Patients with Severe Disabling Intermittent Claudication

1999 - 2000 Protocol 1023 – 008 A Randomized, Double – Blind, Placebo Controlled, 12 Week Follow – up Pilot Study of the Tolerability and Feasibility of Administering AdGVVEGF121.10 (CI 1023) Via the Boston Scientific Corporation Scimed, Inc Endocardial Direct Injection Catheter System to Patients With Advanced Coronary Artery Disease

1999 - 2000 Protocol 1023 – 007 A Randomized, Double – Blind, Placebo Controlled, 12 Week Follow – up Study of AdGVVEGF121.10 Delivered Via the BiosenseNOGA Catheter in Coronary Artery Disease Patients with CCS Class III & IV Angina and Diffuse Disease Who Have Maximized Adequate Medical Therapy and Are Not Candidates for PTCA, CABG, or Stenting

INVESTIGATOR'S BROCHURE:

(Authored while employed at Parke – Davis Pharmaceutical Research) Herman J, Gordon D, Keiser J, Samyn M, Vartanian MA, and Whitfield L. Investigators' Brochure for CI 1023 – AdGVVEGF 121 Issued February 25, 2000; First issued May 30, 1998.

PATENTS:

03/06/2004 WO/2004/045513 Inventors: Margaret Samyn, Milton L Pressler, Donald M. Black, Paul A Fischer, Henrik Rasmussen, Grant Yonehiro. Agent: John Kilyk of Leydig Voit & Mayer, Ltd, Chicago, IL, USA

09/01/2005 Coronary Artery Disease Treatment. USPTO Application #: 20050191278

PHARMACEUTICAL COMPANY COLLABORATIONS:

2004 Clinical Protocol Site PI: Margaret Samyn with Co-PI: F. Jay Fricker, @ University of Florida. "A multicenter, placebo-controlled, 8-month study of the effect of twice daily carvedilol in children with congestive heart failure due to systemic ventricular systolic dysfunction." Protocol 105517/321. Performed in conjunction with University of Utah and Glaxo Smith Kline.

PHARMACEUTICAL CORPORATE WHITE PAPERS:

02/2000 CI 1023 - 020 Enrollment, Parke – Davis/ Warner Lambert Pharmaceutical Research

10/2000 Preliminary Pediatric Considerations for Clinical Investigational Compounds in the Ann Arbor (Cardiovascular) Portfolio, Parke – Davis/ Warner Lambert Pharmaceutical Research

05/2001 Use of the Thrombogram in the Development of Novel Antithrombotics, Pfizer Global Research and Development

PHARMACEUTICAL INDUSTRY RESEARCH REPORTS:

08/1999 Parke – Davis/ Warner Lambert Research Report: Results as of Cutoff Date June 2, 1999, from an Ongoing Phase I Dose Ranging Study of Direct Single Administration of a Replication Deficient Adenovirus Vector Containing the VEGF 121 cDNA (AdGVVEGF121.10) (CI 1023) in a Subset of Patients With Peripheral Arterial Occlusive Disease Who Had Intermittent Claudication (Protocol 1023-002) Vartanian MA, Chartier K, Hurley C, Pak R, and Samyn M

08/1999 Parke – Davis/ Warner Lambert Research Report: Results as of Cutoff Date June 1, 1999, from an Ongoing, Single Center, Open Label, Phase I Study of Direct Single Administration of a Replication Deficient Adenovirus Vector Containing the VEGF 121 cDNA (AdGVVEGF121.10) (CI 1023) to the Ischemic Myocardium of Individuals with Life Threatening Diffuse Coronary Artery Disease After 6 Months of Follow – up (Protocol 1023-001) Kline TA, Vartanian MA, Burnett Diana, McBride S, and Samyn M

08/1999 Parke – Davis/ Warner Lambert Research Report: Results as of Cutoff Date June 2, 1999, from an Ongoing, Single Center, Open Label, Phase I Study of Direct Single Administration of a Replication Deficient Adenovirus Vector Containing the VEGF 121 cDNA (AdGVVEGF121.10) (CI 1023) to the Ischemic Myocardium of Individuals with Diffuse Coronary Artery Disease Via Minimally Invasive Surgery After 4 Weeks of Follow – up (Protocol 1023-003) Kline TA, Vartanian MA, Burnett Diana, McBride S, and Samyn M

11/1999 Parke – Davis/ Warner Lambert Research Report: Results as of Cutoff Date June 30, 1999, from an Ongoing Phase I Dose Ranging Study of Direct Single Administration of a Replication Deficient Adenovirus Vector Containing the VEGF 121 cDNA (AdGVVEGF121.10) (CI 1023) in a Subset of Patients With Peripheral Arterial Disease Who Had Rest Pain and Limb Threatening Ischemia (Protocol 1023-002) Vartanian MA, Chartier K, Hurley C, Pak R, and Samyn M

01/2000 Parke – Davis/ Warner Lambert Research Report: Results After 1 Year of Follow – up from an Ongoing, Single Center, Open-label, Phase I Study of Direct Administration of a Replication Deficient Adenovirus Vector Containing the VEGF 121 cDNA (AdGVVEGF121.10) (CI 1023) to the Ischemic Myocardium of Individuals with Life Threatening Diffuse Coronary Artery Disease (Protocol 1023-001) Khodadad TA, Isaacson JL, Vest JD, MA Vartanian, Pak R, McBride S, Hurley CC, Pressler M, and Samyn M

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Pieper DR, Samyn MM, Heverly RN. Olfactory bulbectomy prevents short photoperiod-induced anestrus in female golden hamsters. Brain Res. 1986 Aug 13;380(1):54-8.
2. Pieper DR, Samyn MM, Subramanian MG. Pituitary gonadotropin releasing hormone (GnRH) receptor levels in intact and ovariectomized-adrenalectomized female golden hamsters on a short photoperiod. Experientia. 1986 Jun 15;42(6):615-7.
3. Samyn, MM, Atkins DL, and Nazarian LF. CD ROM: Index of Suspicion, (Case Report: Pneumomediastinum) Pediatrics in Review - November 1997.
4. Samyn MM, Petershack JA, Bedell KA, Mathews MS, Segar JL. Ontogeny and regulation of cardiac AT1 and AT2 receptors during fetal life in sheep. Pediatric Research 1998 Sep; 44 (3): 323-9.
5. Delius RE, Samyn MM, Behrendt DM. Should a bicuspid aortic valve be replaced in the presence of subvalvar or supravalvar aortic stenosis? Ann Thorac Surg. 1998 Oct;66(4):1337-42.
6. Goldberg CS, Samyn MM. A method for preventive cardiology in children. Prog Pediatr Cardiol. 2001 Jan;12(2):155-160.
7. Samyn, MM. Commentary for 50 years Ago in The Journal of Pediatrics Atrial Septal Defect in Infants & Children. J Pediatrics 2004 AprilVol. 144 (4): 479.
8. Samyn MM. A review of the complementary information available with cardiac magnetic resonance imaging and multi-slice computed tomography (CT) during the study of congenital heart disease. Int J Cardiovasc Imaging. 2004 Dec;20(6):569-78.
9. Haller MJ, Samyn M, Nichols WW, Brusko T, Wasserfall C, Schwartz RF, Atkinson M, Shuster JJ, Pierce GL, Silverstein JH. Radial artery tonometry demonstrates arterial stiffness in children with type 1 diabetes. Diabetes Care. 2004 Dec;27(12):2911-7.
10. Chandran A, Fricker FJ, Schowengerdt KO, Cumming WA, Saidi A, Spencer CT, Paolillo J, Samyn MM. An institutional review of the value of computed tomographic angiography in the diagnosis of congenital cardiac malformations. Cardiol Young. 2005 Feb;15(1):47-51.
11. Samyn, MM. Three congenital heart case reports accepted to Society for Cardiac Magnetic Resonance (SCMR) / Medis 2006 self-assessment test. (a. Tricuspid atresia in infancy, b. partial anomalous pulmonary venous return, c. tricuspid atresia status post Fontan).
12. Janicke, D.M., Storch, E., A., Novoa, W., Silverstein, J.H., & Samyn, M.M. Assessing Barriers to Healthy Dietary Habits in Children and Adolescents: Psychometric Properties of the Pediatric Barriers to Healthy Diet Scale. Children's Health Care, 2007; 36 (2): 155-168.

13. Samyn MM, Powell AJ, Garg R, Sena L, Geva T. Range of ventricular dimensions and function by steady-state free precession cine MRI in repaired tetralogy of Fallot: right ventricular outflow tract patch vs. conduit repair. J Magn Reson Imaging. 2007 Oct;26(4):934-40.
14. Haller MJ, Stein JM, Shuster JJ, Theriaque D, Samyn MM, Pepine C, Silverstein JH. Pediatric Atorvastatin in Diabetes Trial (PADIT): a pilot study to determine the effect of atorvastatin on arterial stiffness and endothelial function in children with type 1 diabetes mellitus. J Pediatr Endocrinol Metab. 2009 Jan;22(1):65-8. PMCID: PMC3621084
15. Salm CM, Clair NE, Lustig JV, Samyn MM. Cardiac Manifestations from Non-FIP1L1-PDGFR?-Associated Hypereosinophilic Syndrome in a 13-Year-Old African American Boy. J Allergy (Cairo). 2009;2009:804910. PMCID: PMC2957620
16. Co-Vu JG, Kirkpatrick EC, Samyn MM. A rare case of hypoplastic left heart syndrome and scimitar syndrome: value of neonatal cardiac magnetic resonance imaging. Pediatr Cardiol. 2010 Jul;31(5):739-40.
17. Samyn MM, Bick D, Humphrey JA, Gandy KL. Successful congenital heart surgery for a toddler with idiopathic infantile arterial calcification. Pediatr Cardiol. 2010 Oct;31(7):1096-9.
18. Kwon EN, Mussatto K, Simpson PM, Brosig C, Nugent M, Samyn MM. Children and Adolescents with Repaired Tetralogy of Fallot Report Quality of Life Similar to Healthy Peers. Congenit Heart Dis. 2011;6:18-27.
19. LaDisa JF Jr, Dholakia RJ, Figueroa CA, Vignon-Clementel IE, Chan FP, Samyn MM, Cava JR, Taylor CA, Feinstein JA. Computational simulations demonstrate altered wall shear stress in aortic coarctation patients treated by resection with end-to-end anastomosis. Congenit Heart Dis. 2011;6(5):432-43. PMCID: PMC3208403
20. Wendell DC, Samyn MM, Cava JR, Ellwein LM, Krolikowski MM, Gandy KL, Pelech AN, Shadden SC, LaDisa JF Jr. Including aortic valve morphology in computational fluid dynamics simulations: initial findings and application to aortic coarctation. Med Eng Phys. 2013 Jun;35(6):723-35. PMCID: PMC3577975
21. Chaves AH, Cava JR, Simpson P, Hoffman GM, Samyn MM. Infant cardiac magnetic resonance imaging using oscillatory ventilation: safe and effective. Pediatr Cardiol. 2013 Jun;34(5):1201-5.
22. Samyn MM, Kwon EN, Gorentz JS, Yan K, Danduran MJ, Cava JR, Simpson PM, Frommelt PC, Tweddell JS. Restrictive versus nonrestrictive physiology following repair of tetralogy of Fallot: is there a difference? J Am Soc Echocardiogr. 2013 Jul;26(7):746-55.
23. Fratz S, Chung T, Greil GF, Samyn MM, Taylor AM, Valsangiacomo Buechel ER, Yoo SJ, Powell AJ. Guidelines and protocols for cardiovascular magnetic resonance in children and adults with congenital heart disease: SCMR expert consensus group on congenital heart disease. J Cardiovasc Magn Reson. 2013 Jun 13;15(1):51. PMCID: PMC3686659
24. Lee DD, Veith RL, Dimmock DP, Samyn MM. Hypertrophic cardiomyopathy: A new mutation illustrates the need for family-centered care. Pediatr Cardiol.2014 Dec;35(8):1474-7. PMID: 25182012.
25. Samyn MM, Plymale JM, Cousineau A, Tweddell J. TAPVR in a kindergartner presenting with fatigue. BMJ Case Reports 2014;Oct 09;2014.PMCID: PMC4194985.
26. Mackman CA, Liedel JL, Woods RK, Samyn MM. A case series of patients with cor triatriatum dexter: unique cause of neonatal cyanosis. Pediatr Cardiol.2015 Jan;36(1):240-3.PMID:25179457.
27. Samyn MM, Dholakia R, Wang H, Co-Vu J, Yan K, Widlansky M, LaDisa JF, Simpson P, Alemzadeh R. Cardiovascular magnetic resonance imaging based computational fluid dynamics/fluid-structure interaction pilot study to detect early vascular changes in pediatric patients with type 1 diabetes. Pediatr Cardiol. 2015 Apr: 36 (4):851-61. Doi: 1007/200246-014-1071-7 Epub 2015.Jan.11
28. Banka P, Robinson JD, Uppu SC, Harris MA, Hasbani K, Lai WW, Richmond ME, Fratz S, Jain S, Johnson TR, Maskatia SA, Lu JC, Samyn MM, Patton D, Powell AJ. Cardiac Magnetic Resonance Techniques and Findings in Children with Myocarditis: a Multi center Retrospective Study. J Cardiovasc Magn Reson. 2015 Nov 17;17:96. doi: 10.1186/s12968-015-0201-6. PMCIC:PMC4650339
29. Wendell DC, Samyn MM, Cava JR, Krolikowski MM, LaDisa JF Jr. The Impact of Cardiac Motion on Aortic Valve Flow Used in Computational Simulations of the Thoracic Aorta. J Biomech Eng. 2016 Sep 01;138(9):0910011-09100111. PMCID: PMC4967883
30. Ellwein L, Samyn MM, Danduran M, Schindler-Ivens S, Liebham S, LaDisa JF Jr. Toward translating near-infrared spectroscopy oxygen saturation data for the non-invasive prediction of spatial and temporal hemodynamics during exercise. Biomech Model Mechanobiol. 2017 Feb;16(1):75-96. PMCID: PMC5217163
31. Sharma AM, Zangwill S, Southern JF, Holland K, Geddes G, Samyn MM. Cardiac Magnetic Resonance

Imaging Findings for Dilated Cardiomyopathy caused by Pathogenic Disruption of Desmoplakin Gene Influences Decision for Heart Transplantation. Annals of Pediatric Research 2017 Aug; 1 (1).
32. Wendell DC, Friehs I, Samyn MM, Harmann LM, LaDisa JF Jr. Treating a 20 mm Hg gradient alleviates myocardial hypertrophy in experimental aortic coarctation. J Surg Res. 2017 Oct;218:194-201. PMCID: PMC5679105
33. Samyn MM, Yan K, Masterson C, Goot BH, Saudek D, Lavoie J, Kinney A, Krolikowski M, Hor K, Cohen S. Echocardiography vs cardiac magnetic resonance imaging assessment of the systemic right ventricle for patients with d-transposition of the great arteries status post atrial switch. Congenit Heart Dis. 2019 Nov;14(6):1138-1148.
34. Samyn MM, Gudausky TM, Kovach JR, Woods RK. Cardiac arrest in a healthy child due to paradoxical embolus across a previously unrecognised sinus venosus defect. BMJ Case Rep. 2019 Dec 05;12(12). PMCID: PMC6904181
35. Soslow JH, Samyn MM. Multi-modal imaging of the pediatric heart transplant recipient. Transl Pediatr. 2019 Oct;8(4):322-338. PMCID: PMC6825966
36. Rogers T, Samyn M, Gudausky TM. Electrocardiographic evidence of ischemia in a young male with anomalous origin of a coronary artery from the opposite sinus. Progress in Pediatric Cardiology, Volume 55, 2019.
37. Bireley M, Kovach JR, Morton C, Cava JR, Pan AY, Nugent M, Samyn MM. Cardiac Magnetic Resonance Imaging (MRI) in Children is Safe with Most Pacemaker Systems, Including Those with Epicardial Leads. Pediatr Cardiol. 2020 Apr;41(4):801-808.
38. Dorfman AL, Geva T, Samyn MM, Greil G, Krishnamurthy R, Messroghli D, Festa P, Secinaro A, Soriano B, Taylor A, Taylor MD, Botnar RM, Lai WW. SCMR expert consensus statement for cardiovascular magnetic resonance of acquired and non-structural pediatric heart disease. J Cardiovasc Magn Reson. 2022 Jul 21;24(1):44. PMCID: PMC9302232
39. Camarda JA, Dholakia RJ, Wang H, Samyn MM, Cava JR, LaDisa JF Jr. A Pilot Study Characterizing Flow Patterns in the Thoracic Aorta of Patients With Connective Tissue Disease: Comparison to Age- and Gender-Matched Controls via Fluid Structure Interaction. Front Pediatr. 2022;10:772142. PMCID: PMC9114664
40. Beroukhim RS, Ghelani S, Ashwath R, Balasubramanian S, Biko DM, Buddhe S, Campbell MJ, Cross R, Festa P, Griffin L, Grotenhuis H, Hasbani K, Hashemi S, Hegde S, Hussain T, Jain S, Kiaffas M, Kutty S, Lam CZ, Liberato G, Merlocco A, Misra N, Mowers KL, Muniz JC, Nutting A, Parra DA, Patel JK, Perez-Atayde AR, Prasad D, Rosental CF, Shah A, Samyn MM, Sleeper LA, Slesnick T, Valsangiacomo E, Geva T. Accuracy of Cardiac Magnetic Resonance Imaging in Diagnosing Pediatric Cardiac Masses: A Multicenter Study. JACC Cardiovasc Imaging. 2022 Aug;15(8):1391-1405. PMCID: PMC11240235
41. Expert Panels on Cardiac Imaging and Pediatric Imaging, Krishnamurthy R, Suman G, Chan SS, Kirsch J, Iyer RS, Bolen MA, Brown RKJ, El-Sherief AH, Galizia MS, Hanneman K, Hsu JY, de Rosen VL, Rajiah PS, Renapurkar RD, Russell RR, Samyn M, Shen J, Villines TC, Wall JJ, Rigsby CK, Abbara S. ACR Appropriateness Criteria® Congenital or Acquired Heart Disease. J Am Coll Radiol. 2023 Nov;20(11S):S351-S381.
42. Blanch-Granada A, Samyn MM, Handler SS, Gerardin JF, Goot B, Hraška V, Cava JR, LaDisa JF. Effect of Virtual Aortic Arch Reconstruction After Norwood Procedure on Cardiac Function, Energy Efficiency, and Wall Shear Stress from Multiscale Simulations Current Cardiovascular Imaging Reports. December 2023;16(12):117-127.
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