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Signature

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EDUCATION

DATES

<i>Graduate:</i> University of Texas Health Science Center at Houston, School of Medicine, Doctorate of Medicine	8/1998-6/2002
<i>Baccalaureate:</i> University of Texas, Austin, Bachelor of Science, Biology (Option I Molecular)	8/1994-5/1998

POSTGRADUATE TRAINING

Children's Hospital of Michigan, Wayne State University Medical School, Pediatric Cardiology Fellow	7/2007-6/2010
University of Texas Health Science Center at Houston, School of Medicine, Clinical Pediatric Cardiology Fellow	7/2005-6/2007
University of Texas Health Science Center at Houston, School of Medicine, Pediatrics Residency	7/2003-6/2005
University of Texas Health Science Center at Houston, School of Medicine, Pediatrics Internship	7/2002-6/2003

FACULTY APPOINTMENTS

Assistant Professor (Clinician-Educator), Wayne State University, School of Medicine, Department of Pediatrics, Division of Pediatric Cardiology	10/2010-4/19/2020
Clinical Assistant Professor, Central Michigan University College of Medicine	7/1/2019-Present

HOSPITAL OR OTHER PROFESSIONAL APPOINTMENTS

University Pediatricians, Children's Hospital of Michigan, Division of Pediatric Cardiology	7/2010-Present
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Medical Director, Pediatric Heart Transplant Program, Children's Hospital of Michigan	11/18/2015-6/25/2021
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MAJOR PROFESSIONAL SOCIETIES

International Society of Heart and Lung Transplantation
International Pediatric Transplant Association
American College of Cardiology
American Academy of Pediatrics
American Society of Echocardiography

HONORS/AWARDS

Leader in Joy- Make A Wish- Michigan Chapter. This award went to individuals who had made efforts to promote and participate in the Make A Wish mission to chronically ill children and their families.	10/12/2019
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Physician Difference Maker- Children's Hospital of Michigan. This award recognizes physicians who have made a positive contribution to the Children's Hospital of Michigan.	12/2017
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2016 Metro Parent Mom-Approved Doc. This award recognizes physicians who have been nominated by a parent in Southeast Michigan to Metro Parent Magazine.	2016
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Travel Grant to attend the Electrophysiology Fellow Course in Washington, DC by St. Jude Medical.	10/2009
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NIH-Undergraduate Training Grant. Funding for development of research skills in genetics with Dr. Glen Evans lab at UT Southwestern Medical School as part of the Human Genome project. My research funding was \$3000.	6/1997
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National Science Foundation Grant. To promote and develop research skills in under graduate science majors. I worked with a post doctoral candidate in Virology at the UT Austin campus. My research stipend was \$2500.	6/1996
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SERVICE

Affiliate medical organizations

Children's Hospital of Michigan Medication Use Committee. I serve on the monthly committee which looks at pediatric medication usage and concerns (shortages, medication errors, etc) in the CHM Pharmacy formulary as well as review and update particularly the cardiac medication policies and protocols.	2/2011-Present
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DMC Pharmacy and Therapeutics Committee, Pediatric Subcommittee. I serve on the committee looking at pediatric medication issues with the DMC formulary and review medications requested for use and addition to the DMC and CHM Pharmacy formulary in regards to pediatric usage, safety, and efficacy.	2/2011- Present
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Gift of Life Michigan Committee, 1/2016- Present. I serve as a member interacting with the Gift of Life Michigan representative for Children's Hospital of Michigan and among the other transplant programs at the hospital.	1/2016- Present
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Professional

United Network of Organ Sharing (UNOS) National Heart Review Board for Pediatrics. Newly created Board by UNOS to address specifically unique aspects for pediatric exceptions for the waitlist and to provide uniformity to pediatric waitlist exception requests. Review of appropriateness and duration for each submitted exception request are the primary responsibilities.	6/15/2021- present
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United Network of Organ Sharing (UNOS) Region 10 Review Board. I review exceptions for status changes in patients awaiting cardiac transplantation. This involves not only deciding if the exception is appropriate but also for the length of time the increased listing status will be granted. (This is now a rotating 1 year on/ 1 year off commitment).	11/2012- 2/2013; 2/2014- 8/2015; 8/2016- 8/2017 8/2018- 8/2019 8/2020- 8/2021
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Community

Children's Hospital of Michigan Thanksgiving Special- Journeys of Hope, Healing, and Triumph	11/26/2020
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Teen Heart Transplant Recipient Urges Others to Consider Organ Donation	July 2020
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Channel 4 News- 18 month-old Receives Heart Transplant After Spending Most of his Life at Children's Hospital of Michigan	6/19/2020
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Born on Valentine's Day, Chesterfield Heart Transplant Recipient Has Special Message for Donors	February 2020
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Transplanted at Just a Few Days Old, Tehya Thrives in Cheerleading and School	February 2020
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Channel 4 News- A Gift of Life. Jay's Juniors	11/26/2019
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Two Teens Bond For Life After Receiving Heart Transplant Within 8 Days of Each Other	April 2019
Make-A-Wish Michigan Chapter Medical Advisory Council. I am a member of a multi-specialty committee which provides input into ongoing assessment of medical conditions eligible for sponsorship with Make-A-Wish in Michigan. We have teleconferences and in person meetings 3-4 times a year as well as attending and representing Make-A-Wish Michigan at various events.	10/2018- Present
Camp Michitanki- at North Star Reach- A Serious Fun Camp. I staffed the Health Care Center and administered medical care for any minor or major health complaints for cardiac, renal, and liver transplant children who were enrolled in the Camp Michitanki Session. I worked with the Health Center Team which consisted of me, another transplant physician, and 12 nurses in the Health Center to ensure daily medications, supplemental feedings, and other health needs (example- daily blood pressure monitoring) were appropriately provided and ensured the ongoing health of the campers throughout camp.	6/17-6/23/18 6/16-6/22/19
Heart Transplant Provides Hope for Flint Michigan Teen With Cardiomyopathy	May 2018
A New Heart Offers a New Beginning for Southfield Girl	April 2018
North Star Reach- A Serious Fun Camp Transplant Medical Specialty Team- Reviewed camp policies and procedures for care and treatment of solid organ transplant recipients while at camp for the 2017 camp season. Also assisted with screening medical information and updating medical information for campers as needed prior to camp.	1/2017- Present
Children's Hospital of Michigan Thanksgiving Special- A New Heart Offers a New Beginning for Oakland County Girl.	11/24/2016
Children's Hospital of Michigan Pediatric Experts & Innovations- The Ultimate Birthday Gift- A New Heart for Her Baby.	Fall/Winter 2016
Romulus Girl Given the Gift of Life with New Heart	April 2016
Wayne State University School of Medicine Future Docs. This is an annual program for elementary and middle school age students to promote interest in the health sciences. I participate in the Pediatric Cardiology's program- Heart Rocks! which includes teaching healthy lifestyle habits, auscultation of heart sounds, and performing limited echocardiograms for them to appreciate their own cardiac anatomy.	4/2008- 4/2019
Sport Screening Clinic – University Liggett School. This program was in participation with the Sports Medicine Clinic and the Children's Hospital of Michigan. I performed cardiac examinations, read electrocardiograms, and read echocardiograms performed on selected students for their Michigan Athlete sports physical evaluation.	May 2012

Health Frontiers - State University Hospital of Haiti (HUEH) Port-Au-Prince, Haiti. Initiated by the Division of Pediatrics, I participated in the program to bring pediatric sub-specialties to the Haitian teaching hospital for residency education. I taught the pediatric residents in the HUEH residency program about Pediatric Cardiology topics in fetal circulation, cardiac murmurs, chest pain, and infective endocarditis. I also went on clinical rounds with the pediatric residents for clinical cardiac evaluation with bedside teaching and performed pediatric echocardiograms with the portable machine that I transported from the US for the trip. June 2011

Variety Children's Lifeline - Cardiac Catheterization Team- Cedimat Hospital, Santo Domingo, Dominican Republic. I assisted an interventional cardiologist from Children's Hospital of Michigan with interventional as well as diagnostic (pre-operative) cardiac catheterizations for congenital heart disease patients in the Dominican Republic. January 2010

UT House Docs. This was an annual program that involved the UT Health Science Center in outreach in low socioeconomic areas of Houston. Participants assisted with household repairs for elderly residents. 4/2000-4/2007

Scholarly Service

Review of Manuscripts

Treatment of Cardiac Transplant Rejection in a Pediatric Patient with Asymptomatic COVID-19: A case report. Progress in Pediatric Cardiology 12/2/2021

The Effects of Corrective Surgical Treatment On Cerebral Hemodynamics In Pediatric Patients With Congenital Heart Disease. Progress in Pediatric Cardiology (revision and resubmission of original manuscript) 6/19/2021

The Effects of Corrective Surgical Treatment On Cerebral Hemodynamics In Pediatric Patients With Congenital Heart Disease. Progress in Pediatric Cardiology 2/6/2021

Don't Go Breaking My Heart: The youngest known case of Barth Syndrome. Progress in Pediatric Cardiology (revision and resubmission of original manuscript) 2/3/2021

Perceptions of Consultants and Trainees on Treatment Decisions for Parents of Children with HLHS: A qualitative description of communication challenges associated with therapeutic evolution. Progress in Pediatric Cardiology 11/30/2020

Thromboprophylaxis and Treatment Practices for Thromboembolic Complications after Total Cavopulmonary Connection/Fontan operation	9/8/2020
in Children - A survey of Paediatric Cardiology and Cardiothoracic Network Centres. Progress in Pediatric Cardiology	5/14/2020
Don't Go Breaking My Heart: The youngest known case of Barth Syndrome. Progress in Pediatric Cardiology	5/30/2018
The Implications of Donor Specific Antibodies on Paediatric Cardiac Transplantation. Progress in Pediatric Cardiology	
Other Scholarly Service	12/11/2020
	1/8/2021
Pediatric Residency Interviews	
	2/23/2020
	3/8/2021
Review of abstracts for 19 th Annual Pediatric Research Day	
Review of abstracts for 20 th Great Lakes Pediatric Research Day	4/1/2021
Judging of posters for 20 th Great Lakes Pediatric Research Day	

TEACHING

Pediatric Cardiology In-service

During my service on the inpatient Pediatric Cardiology service, I gave daily lectures to the pediatric residents on the Cardiology rotation on multiple cardiology topics including:

- Cyanotic heart disease
- Fetal circulation
- Care of congenital heart disease patients
- Adult congenital heart disease
- Acquired heart disease (Kawasaki disease, myocarditis, and rheumatic heart disease)
- Pediatric heart murmurs
- Chest pain in children and adolescents
- Syncope

Echocardiography Lectures

Yearly lectures given to the pediatric cardiology fellows, Echo lab sonographers, and other echocardiography faculty on the following topic(s):

12/2010-
Present

- Aortic and mitral regurgitation assessment
- Hypoplastic left heart syndrome
- Tetralogy of Fallot

Pediatric Cardiology Fellow Core Lectures

Lectures covering areas of core knowledge given to the pediatric cardiology fellows on the following topic(s):

8/2011-
Present

- Cardiovascular Pharmacology
- Cardiac Transplantation
- Heart Failure

Pediatric Residency Lectures

Lectures given to the pediatric residents on pediatric cardiology topic(s):

11/17/2011

- Approach to Cardiac Murmurs
- Board Review Course- Congenital Heart Disease and Congestive Heart Failure (CHF)

4/6/2012
4/10/2013
4/30/2014
4/17/2017
4/16/2018

Maternal Fetal Medicine Course Curriculum Lecture Series

Lectures given to the maternal fetal medicine fellows on fetal cardiac imaging of hypoplastic ventricular anatomy and physiology

1/15/2013
6/17/2014

Lecture given to maternal fetal medicine fellows and staff on fetal cardiac imaging of cardiac conotruncal anatomy and physiology

10/6/2015

Course or Core Curriculum

American Society of Echocardiography- ASCeXAM/ReASCE Online Exam Simulation. I worked in collaboration with several cardiologists with a focus in echocardiography (adult and pediatric) to create a board simulation product for individuals preparing for the adult cardiology echocardiography boards. I worked on the adult congenital portion of this examination. Hilary Lamb, COO and Anita Huffman, Products Manager from ASE were involved in the project.

11/2011-
6/2012

PUBLICATIONS

Peer-Reviewed Publications

Reports of Original Work

Sanil Y, Misra A*, Safa R, Blake JM, Charaf-Eddine A, Balakrishnan P, Garcia RU, Taylor R*, Dentel J, Ang J, Cashen K, Heidemann S, Bauerfield C, Sethuraman U, Farooqi A, Aggarwal S, and Singh G. Echocardiographic Indicators Associated with Adverse Clinical Course and Cardiac Sequelae in Multisystem Inflammatory Syndrome in Children with Coronavirus Disease 2019. J Am Soc Echocardiogr 2021. May 3:S0894-7317(21)00468-5.

(PubMedID 33957250). I participated in identifying appropriate patients, data collection, and manuscript writing and editing.

Sahewalla R*, Sehgal S, Blake J, and Aggarwal S. Left Ventricular Adaptation Following Orthotopic Heart Transplantation in Children: A Speckle Tracking Echocardiographic Imaging Study. Clin Transplant. 2019 Jul 15 (Epub ahead of print). 2019 Aug; 33(8)e13632. (PubMed ID 31309613). I participated by providing patient data and manuscript writing and editing.

Sehgal S*, Blake J, and Aggarwal S. Right Ventricular Dysfunction as an Echocardiographic Measure of Acute Rejection Following Heart Transplantation in Children. Pediatr Cardiol. 2016 Nov 23 (Epub ahead of print). (PubMed ID 27878627). I participated by providing patient data and manuscript writing and editing.

Sehgal S*, Blake JM, Sommerfield J, and Aggarwal S. Strain and Strain Rate Imaging Using Speckle Tracking in Acute Allograft Rejection in Children with Heart Transplantation. Pediatr Transplant. 2014 Nov; 19(2):188-95. (PubMed ID 25532819). I participated by providing patient data and manuscript writing and editing.

Karpf AR, Blake JM, Brown DT. Characterization of infection of *Aedes Albopictus* Cell Clones by Sindbis virus. Virus Research (50):1-13. (PubMed ID 9255930). I participated by assisting in the experiments that provided the data and manuscript writing and editing.

Case Reports

Blake JM, Kohli U, Gonzalez M, Sriram C. Clinico-Histopathological Correlation of Symptomatic Left Main Coronary Artery Electrocardiographic Ischemia Pattern in a Young Child with Hypertrophic Cardiomyopathy. I participated by providing patient data and manuscript writing and editing. Accepted awaiting publication, Journal of Electrocardiology.

Takajo D*, Blake J, Aggarwal S. Subclavian Steal Phenomenon Associated with Vascular Ring in a Patient with Right Aortic Arch with Atretic Aberrant Left Subclavian Artery. I participated by providing patient data and manuscript writing and editing. Accepted awaiting publication, Texas Heart Institute Journal.

Doctor P*, Blake J, Aggarwal S. Role of Sildenafil in a Neonate with Double Outlet Left Ventricle and Pulmonary Hypertension. I participated by providing patient data and manuscript writing and editing. Accepted awaiting publication, Journal of Cardiology Cases.

Konduri A*, Blake J, Aggarwal S. Crohn's Disease with Dilated Cardiomyopathy in a Child: An Experience with Heart Transplantation. Pediatr Transplant. Epub 2021 April 28. (PMID 33909325). I participated by providing patient data and manuscript writing and editing.

Takajo D*, Sehgal S, Blake J, Aggarwal S. Pneumocystis Pneumonia with Hypogammaglobulinemia in a Pediatric Patient Who Underwent Heart Transplantation. Transplant Infectious Disease. Epub 2021 Jan 20. (PMID 33470002). I participated by providing patient data and manuscript writing and editing.

Takajo D*, Blake J, Aggarwal S. Refractory Pleural Effusions Associated with Use of Sirolimus in a Teenager with Heart Transplant. I participated by providing patient data and manuscript writing and editing. Submitted Clinical Pediatrics, Pending acceptance.

Patange A*, Blake J, Gowda S. Complete Blalock-Taussig Shunt Obstruction in < 24hrs Post-operative Period in a Neonate Treated Emergently Using Transcatheter Angioplasty and Low Dose Local Recombinant TPA. Cath and Cardiovasc Interventions. Epub 2013 Nov 21. (PubMed ID 24867628). I participated in data collection and manuscript writing and editing.

* Cardiology Resident/Fellow

Review Articles

Misra A*, Safa R, Sanil Y, Blake JM, Charaf Eddine A, Balakrishnan P, Garcia RU, Aggarwal S, Singh G. Cardiovascular Involvement in Multisystem Inflammatory Syndrome in Children with COVID-19. I participated by providing patient data and manuscript writing and editing. Accepted awaiting publication, Vessel Plus.

Blake JM. A Teen with Chest Pain. Pediatr Clin North Am. 2014 Feb;61(1):17-28. Epub 2013 Oct 18. (PubMed ID 24267455).

Published Abstracts

Halas R*, Blake J, Gupta P, Sehgal S. Improving Guideline Based Care of Patients with Fontan Physiology. Given as a poster at the QuESST (Quality Improvement and Safe Systems Training) Conference April 21- 26, 2021.

Sahewalla R*, Sehgal S, Blake J and Aggarwal S. Adaptive Changes in Right Ventricular Function Following Orthotopic Heart Transplantation In Children: A 2 Dimensional Speckle Analysis. Given as a poster at the American Society of Echocardiography (ASE) Conference June 23-26, 2018.

Blake J*, Du W, and Zilberman M. Adolescents with complex heart disease and their Parents: Knowledge of their heart condition. Given as an oral presentation at the 37th Annual ODICH (Ohio Doctors Interested In Congenital Hearts) Conference on May 8-9, 2009.

Blake J*, Du W, and Zilberman M. Adolescents with complex heart disease and their Parents: Knowledge of their heart condition. Presented as a poster at the ACHA (Adult Congenital Heart Association) 09: Building the Future of ACHD NOW Conference on April 23-25, 2009.

PRESENTATIONS

Invited Lectures/Presentations

Schwartz Center Rounds- “Riding the Long-Term Rollercoaster: The Emotional Impact of the Long-Term Patient.” April 14, 2019.

Children's Hospital of Michigan Saturday CME Program- Cardiology. Chest Pain in Children and Teens. How to decide which patient needs a referral. May 10, 2014.

Cardiovascular Medications: Pharmacology and Clinical Use. NUR7207 Pharmacology course at Wayne State University Nursing School, Nurse Practitioner Program. February 2013.

Cardiovascular Medications: Pharmacology and Clinical Use. NUR7207 Pharmacology course at Wayne State University Nursing School, Nurse Practitioner Program. February 2012.

Cardiovascular Medications: Pharmacology and Clinical Use. NUR7207 Pharmacology course at Wayne State University Nursing School, Nurse Practitioner Program. February 2011.

Cardiovascular Medications: Pharmacology and Clinical Use. NUR7207 Pharmacology course at Wayne State University Nursing School, Nurse Practitioner Program. February 2010.

Cardiovascular Medications: Pharmacology and Clinical Use. NUR7207 Pharmacology course at Wayne State University Nursing School, Nurse Practitioner Program. February 2009.