

Date of Preparation: June, 22 2021

Ahmad Charaf Eddine, MD
Children's Hospital of Michigan
Division of Pediatric Cardiology
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EDUCATION

DATES

Saint Joseph University, Beirut, Lebanon
Doctor of Medicine

10/1995-06/2002

POSTGRADUATE TRAINING

Jackson Memorial Hospital- University of Miami, Miami, FL
Pediatric Cardiology Fellowship

07/2006 - 06/2009

University of Iowa Hospitals and Clinics, Iowa City, IA
General Pediatrics Residency

08/2003 - 06/2006

American University of Beirut, Beirut, Lebanon
General Pediatrics Internship

06/2002 - 06/2003

FACULTY APPOINTMENTS

Central Michigan University
Assistant Professor, Pediatric Cardiology

07/01/2019-current

Wayne State University, Detroit MI
Assistant Professor, Pediatric Cardiology

12/01/2016-04/19/2020

University of Mississippi Medical Center, Jackson, MS
Assistant Professor, Pediatric Cardiology

01/2012 - 08/01/2016

West Virginia University, Division of Charleston, Charleston, WV
Assistant Professor, Pediatric Cardiology

07/2009 - 01/2010

HOSPITAL OR OTHER PROFESSIONAL APPOINTMENTS

Children of Michigan - Detroit Medical Center, Detroit, MI Pediatric Cardiologist	08/08/2016 – Current
University of Mississippi Medical Center, Jackson, MS Assistant Professor, Pediatric Cardiology	01/2012 - 08/01/2016
National Guard Health Affairs- King Abdul Aziz Medical Center, Riyadh, Kingdom of Saudi Arabia Pediatric Cardiology Consultant	06/2010 - 12/2011

MAJOR PROFESSIONAL SOCIETIES

American Society of Echocardiography, Fellow	2014 – current
American Academy of Pediatrics, Fellow	2013 - 2016
Mississippi Medical Association, Member	2012 - 2016

SERVICE

Member of Member of UM/LOS Committee. Detroit Medical Center. Children's Hospital of Michigan	07/2020-current
Peer reviewer: Congenital Heart Disease journal	04/2016 - current
Peer reviewer: Progress in Pediatric Cardiology journal	06/2017 – current
IAC accreditation for pediatric echocardiography laboratory University of Mississippi Medical Center Pediatric Echocardiography Laboratory	2013 – 2016 & 2016 – 2019
Medical Director of Pediatric Echocardiography Laboratory, University of Mississippi Medical Center, Jackson, MS	08/2012 - 08/2016
Head of Pediatric Cardiology Morbidity and Mortality Committee, National Guard Health Affairs King Abdul-Aziz Medical Center, Riyadh, Kingdom of Saudi Arabia	09/2010 - 12/2011
Moonlighting activity in neonatal intensive care unit, Jackson Memorial Hospital - University of Miami, Miami, FL	10/2007 - 06/2009

TEACHING

Aim: To train and increase knowledge of pediatric residents and pediatric cardiology fellows in the area of pediatric cardiology. Teaching is provided through serial lectures, bedside teaching (inpatient and clinic) and during my coverage of echocardiography laboratory (transthoracic and trans-esophageal echocardiography). Additionally, I teach a full day course (lectures and hands on pediatric echocardiography course) at Baker College.

DIDACTIC TEACHING

Pediatric cardiology core lecture series presented to pediatric residents, Children's Hospital of Michigan, Detroit MI	01/2018
Pediatric echocardiography yearly full day course, Baker University, Auburn Hills, MI	04/2017 - current

Pediatric cardiology lectures presented to pediatric cardiology fellows (Four lectures per year), Children's Hospital of Michigan, Detroit MI	08/2016 – current
Pediatric cardiology core lecture series (yearly lectures) presented to pediatric residents, University of Mississippi Medical Center, Jackson, MS	01/2012 – 08/2016
Introduction to congenital heart disease, lecture series presented to physician assistant students, University of Mississippi Medical Center, Jackson, MS	07/2012 & 07/2013

CLINICAL TEACHING

Teaching and supervision of pediatric residents and pediatric cardiology fellows, Children's Hospital of Michigan, Detroit MI	08/2016 – current
Teaching of 3 rd and 4 th year medical students during pediatric cardiology clinic rotation (1 day per week), Children's Hospital of Michigan, Detroit MI	02/2017 - current
Teaching of 3 rd and 4 th year medical students during pediatric cardiology clinic rotation (2 days per week), University of Mississippi Medical Center, Jackson, MS	01/2012 – 08/2016
Teaching and supervision of pediatric residents while on inpatient rotation (8 weeks per year), University of Mississippi Medical Center, Jackson, MS	01/2012 - 08/2016
Teaching and supervision of pediatric cardiology fellows while on inpatient and echocardiography rotation, National Guard Health Affairs-King Abdul Aziz Medical Center, Riyadh, Kingdom of Saudi Arabia	06/2010 - 12/2011

MENTORING

Research mentor of CMU student. Currently working on research project: Evaluation of left ventricular systolic and diastolic function using left ventricular and left atrial strain in patients who underwent surgical repair of ventricular septal defect	01/2021-current
Mentoring and teaching of 4 th year medical students (WSU) during their one month elective pediatric cardiology rotation (6-7 students per year)	07/2017- current

Mentoring of 3rd year medical student (CMU) for preparation and presentation of Special Topics in Medicine 07/01/2020

PUBLICATIONS

PUBLICATIONS IN PEER REVIEWED JOURNALS

1. Sanil Y, Misra A, Safa R, Blake JM, **Eddine AC**, Balakrishnan P, Garcia RU, Taylor R, Dentel JN, Ang J, Cashen K, Heidemann SM, Bauerfield C, Sethuraman U, Farooqi A, Aggarwal S, 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
2. **Ahmad Charaf Eddine**, Daisuke Kobayashi. Persistent left superior vena cava draining into the left atrium: Review of associated venous anomalies and role of multimodality imaging, *Progress in Pediatric Cardiology*, available online 6 April 2021
3. Abdel-Haq N, Asmar BI, Deza Leon MP, McGrath EJ, Arora HS, Cashen K, Tilford B, **Charaf Eddine A**, Sethuraman U, Ang JY. SARS-CoV-2-associated multisystem inflammatory syndrome in children: clinical manifestations and the role of infliximab treatment. *Eur J Pediatr.* 2021 May;180(5):1581-1591
4. **Charaf Eddine, A.**, Kadiu, G., & Sanil, Y. (2020). Spontaneous closure of muscular ventricular septal defect by growth of right ventricular muscle bundles: A rare mechanism. *Cardiology in the Young*, 30(2), 291-293
5. Susan Sabra, Khalid Mahmood Malik, Muhammad Afzal, Vian Sabeeh, **Ahmad Charaf Eddine**. A hybrid knowledge and ensemble classification approach for prediction of venous thromboembolism. *Expert Systems.* 19 March 2019
6. Ebeid MR, Batlivala SP, Salazar JD, **Eddine AC**, Aggarwal A, Dodge-Khatami A, Maposa D, Taylor MB. Percutaneous Closure of Perimembranous Ventricular Septal Defects Using the Second-Generation Amplatzer Vascular Occluders. *Am J Cardiol.* 2015 Oct 17
7. **Eddine AC**, Alvarez O, Lipshultz SE, Kardon R, Arheart K, Swaminathan S: Ventricular structure and function in children with sickle cell disease using conventional and tissue Doppler echocardiography. *Am J Cardiol.* 2012 May 1;109(9):1358-64. Epub 2012 Feb 15
8. Pinder M, **Charafeddine A**, Parnell AS, Dibardino DJ, Knudson JD: Osteosarcoma with Cardiac Metastasis in a 22-year-old Man: A Case Report and Review of Cardiac Tumors. *Congenit Heart Dis.* 2014 Sep-Oct;9(5):E147-52

9. Chancellor W, DiBardino DJ, Gupta B, Knudson JD, **Charaf-Eddine A**, Salazar JD. Porcine xenograft aortic root replacement in a 3 month old with severe truncal insufficiency Ann Thorac Surg. 2014 Jul;98(1):323-5
10. DiBardino DJ, **Charaf Eddine A**, Gaymes C, Sheth M, Rivard A and Salazar JD. Left ventricular diverticulum: how we do it. World J Pediatr Congenit Heart Surg. 2013 Jul;4(3):318-21
11. Erami C, **Charaf-Eddine A**, Aggarwal A, Rivard AL, Giles HW, Nowicki MJ: Dysphagia Lusoria in an Infant. J Pediatr. 2013 Jun;162(6):1289-90
12. Riad M. Rahhal, **Ahmad Charaf Eddine**, Warren P. Bishop: A Child with an Abdominal Mass. Hospital Physician 2006 Feb; 42(2): 37-42

PUBLISHED ABSTRACTS

1. Makram R. Ebeid, Sarosh Batlivala, **Ahmad Charaf Eddine**, Avichal Aggarwal, Mary Taylor: Short to Mid term follow up of the Atrio-Ventricular Node Function after Percutaneous Closure of Perimembranous Ventricular Septal Defects Using the Second Generation Amplatzer Vascular Occluders. Presented In the SCAI 2016 Annual Scientific Session; (Orlando, FL) May 5, 2016

NON PEER REVIEWED PUBLICATIONS

1. **Ahmad Charaf Eddine**, Paul Daher: Anorectal malformations, review of the literature and follow up of patients after surgical repair. Published at Saint Joseph University medical school library June 2002

REGIONAL LECTURES / PRESENTATIONS

1. Pediatric echocardiography 1 day course, Baker University, Auburn Hills, MI, March 2021
2. ” Focus on Pediatric” Conference sponsored by Detroit Medical Center. Common Teenage Cardiac Concerns: Syncope and Related Clinical Syndromes. Troy, MI, February 2020
3. Post-operative echocardiography, Baker University, Auburn Hills, MI, September 2019
4. Pediatric echocardiography 1 day course, Baker University, Auburn Hills, MI, March 2019
5. Pediatric echocardiography 1 day course, Baker University, Auburn Hills, MI, March 2018

6. Radiology rounds, Cardiac echocardiography. Presentation given to pediatric emergency room faculty and fellows, 06/14/2017
7. Post operative echocardiography, Baker University, Auburn Hills, MI, July 2017
8. Pediatric echocardiography 1 day course, Baker University, Auburn Hills, MI, April 2017
9. Discussion of pediatric cardiology cases, Makassed General Hospital, Beirut, Lebanon, June 2016
10. Echocardiography as a guide for trans-catheter interventions: lecture presentation at The Congenital Heart Conference sponsored by University of Mississippi Medical Center, Apr 23 2016
11. Evaluation and management of syncope in the pediatric population Makassed General Hospital, Beirut, Lebanon, 03/2015
12. Makram R. Ebeid, Sarosh Batlivala, Ahmad Charaf Eddine, Avichal Aggarwal, Jorge Salazar, Mary Taylor: Short Term follow up of Percutaneous Closure Of Perimembranous Ventricular Septal Defects Using The Second Generation Amplatzer Occluders. JACC Vol 64/11Suppl B, September 13–17, 2014
13. VSDs beyond childhood: lecture presentation at the Adult Congenital Heart Disease Conference sponsored by University of Mississippi Medical Center, Apr 11-13 2014
14. Vascular Rings and Slings: lecture presentation at the Adult Congenital Heart Disease Conference sponsored by University of Mississippi Medical Center, Apr 11-13 2014
15. Member of the organizing committee, speaker and instructor (“hands on” TEE sessions), 10th Echocardiography Workshop on Congenital Heart Disease, TEE from Knowledge to Clinical Practice, National Guard Health Affairs, King Abdul-Aziz Medical Center, Riyadh, Kingdom of Saudi Arabia, 03/2011
16. Evaluation of Cardiac Function by Tissue Doppler in Children with Sickle Cell Anemia. Oral abstract presentation at AAP meeting, section on cardiology and cardiothoracic surgery, October 16-18 2009, Washington, DC
17. Grand Round: Sudden Cardiac Death In The Young Athlete presented to pediatricians at: University of West Virginia- Division of Charleston, Women and Children’s Hospital, Charleston, WV 08/2009
Summers Co. Appalachian Regional Healthcare, Hinton, WV 09/2009

Appalachian Regional Healthcare, Williamson, WV 10/2009