

**Board of Directors Nominations : Entry # 1336****Name**

Dr. Ndidiamaka Musa

**Credentials**

MD, FCCM

**Institution**

Seattle Children's Hospital

**Email**[ndidi.musa@seattlechildrens.org](mailto:ndidi.musa@seattlechildrens.org)**Mobile Phone**

513-226-3224

**Name of Individual Submitting the Nomination if not Self:**

Dr. Melina Handley

**Biography (1000 character limit)**

It is an honor to nominate Dr. Musa for a position on the PCICS Board of Directors. Ndidi not only brings diversity to the board, but a wealth of experience in global health, medical education, and cardiac intensive care experience. Ndidi is a passionate and fierce advocate for non-English speaking families, patients, and global health. Dr. Musa has been a practicing pediatric cardiac intensivist for 22 years. She co-pioneered the development of a CICU at the Children's Hospital of Wisconsin, developed cardiac critical care education for residents and fellows, and developed global health programs and education initiatives in Botswana, Ghana, Morocco, Egypt, Kenya, Sierra Leone, Nigeria, China, Armenia, Ethiopia, Greece, Thailand, Vietnam, and Israel. Even during the pandemic, Ndidi worked to help a small upcoming cardiac Program in Nigeria thrive by establishing a case conference where she assembled experts in the field from the US and India to discuss and review cases.

**How Do You Envision Advancing PCICS as a Member of the Board of Directors?(1000 character limit)**

Ndidi's expertise in cardiac critical care, global health, and leadership will help to improve the membership experience for our international members in resource-limited settings. Ndidi has been a strong advocate for our global members, ensuring they are mentored into PCICS and have access to resources. Ndidi will champion our efforts to be more diverse, inclusive, and equitable as a society.

**Previous Contributions to PCICS (1000 character limit)**

Member of the International Committee worked with members on the PCICS supplement in cardiology of the young on global health. She was the lead author of the PCICS paper on the global burden of heart disease published in cardiology of the young December 2017. She was asked to be co-chair of the committee in 2018 for a 2-year term. She worked alongside the committee to raise awareness to support programs in resource-limited settings and has been a constant advocate at meetings for consideration of issues relating to members from limited-resource settings. Behind the scenes, she has encouraged and mentored minority junior colleagues informally to keep them engaged in PCICS and highlight the work they do in LMIC.

Ndidi served as co-chair of the newly established Diversity, Equity and Inclusion committee established by PCICS. Along with the other co-chairs, this committee is making strides by bringing a diversity lens to the other committees within PCICS.

## Board of Directors Nominations : Entry # 1336

Please upload the Nominee's CV here:

- [PCICS-Board-Member-Nomination- Musa.docx](#)
- [UWSOM-CV-Musa-05-31-20221.docx](#)

Please upload the Nominee's headshot here:

- [Musa\\_Ndidiamaka\\_website.jpg](#)

### Notes



#### Admin Notification (ID: 5f0477b61b998)

added June 29, 2022 at 1:32 pm

WordPress successfully passed the notification email to the sending server.

It is an honor to nominate Dr. Musa for a position on the PCICS Board of Directors. Ndidi not only brings diversity to the board, but a wealth of experience in global health, medical education, and cardiac intensive care experience. I have worked with Ndidi for seven years and would characterize her as a passionate and fierce advocate for non-English speaking families, patients, and global health. She supports and advocates for our APPs and critical care medicine fellows through mentorship and education. It is an honor to call her a friend and colleague. I believe she is an ideal candidate for a position on the PCICS board of directors. Dr. Musa has graciously accepted this nomination and is carbon copied on this nomination letter..

## **Experience**

Dr. Musa is board certified in Pediatric Critical Care Medicine. She is a Professor of Pediatrics in the Department of Pediatrics at the University of Washington and a Pediatric Cardiac Intensivist at Seattle Children's Hospital in Seattle, Washington. She completed postgraduate training in Pediatrics and Pediatric Critical Care in 1998. After working for a couple of years as a pediatric intensivist, she sought additional training by completing a one-year fellowship in Pediatric Cardiac Critical Care at Cincinnati Children's Hospital and has been in practice as a cardiac intensivist since 2002. She played a significant co-pioneering role that resulted in the development of a separate cardiac intensive care unit at the Children's Hospital of Wisconsin in Milwaukee. She initiated a bi-monthly didactic lecture series and developed the structure for teaching a practical approach to cardiovascular physiology in the cardiac ICU. In 2010 she was the course director for the Pediatric Cardiac Critical Care unit selective course for M4 students at the Medical College of Wisconsin. She is involved teaching cardiovascular physiology to fellows and nurse practitioners at Seattle children's hospital and has received numerous teaching awards. In addition, she has been involved in teaching early recognition of the critically ill child through various courses in Botswana, Ghana, Morocco, Egypt, Kenya, Sierra Leone, Nigeria, China, Armenia, Ethiopia, Greece, Thailand, Vietnam, and Israel. Even during the pandemic, Ndidi worked tirelessly to help a small upcoming cardiac Program in Nigeria thrive by establishing a case conference where she assembled cardiologist, cardiothoracic surgery, anesthesiologist, and ICU physicians together from the US and India to discuss the cases prior to surgical intervention. This has led to an increase in caseload, better operative candidates, and a reduction in mortality. She has been an invited speaker in many international scientific conferences. She was a content expert among other global leaders in the field in establishing a new diploma program in Pediatric intensive care to serve Europe. She has written several peer reviewed articles and a few book chapters. She currently serves as associate editor for Frontiers Pediatrics and Intensive Care Medicine. She is currently a Fellow of the American college of critical care medicine. Please see attached CV for further details.

## **Diversity, Equity, & Inclusion**

Ndidi became a member of the International Committee worked with members on the PCICS supplement in cardiology of the young on global health. She was the lead author on the PCICS

paper on Global burden of heart disease published in cardiology of the young December 2017. She was asked to be co-chair of the committee in 2018 for a 2-year term. She worked alongside the committee to raise awareness to support programs in resource limited settings and has been a constant advocate at meetings for consideration of issues relating to members from limited resource settings. Behind the scenes, she has encouraged and mentored minority junior colleagues informally to keep them engaged in PCICS. She has seen herself as a voice for promoting colleagues and highlighting the work they do in LMIC. Advocating for ambassadors from regions and for the use of the what's app platform as a means of communication with the international committee.

Ndidi served as co-chair of the newly established Diversity, Equity and Inclusion committee established by PCICS. Along with the other co-chairs, this committee is making strides by bringing a diversity lens to the other committees within PCICS. Ndidi has been a strong advocate for diversity. She serves on the Health Equity, Diversity, and Inclusion (HEDI) workforce Council at Seattle Children's and has been a strong advocate and mentor for the Resident Diversity, Equity, and Inclusion (DEI) committee at Seattle Children's Hospital.

### **Leadership & Board Experience**

Ndidi served on the board of the World Federation of Pediatric Intensive Care (WFPICS) she worked collaboratively with the board through the planning of 3 World Congresses. She is the co-director of the Cardiac Intensive Care Unit at Seattle Children's Hospital.

Sincerely,

**Melina M. Handley, DNP, PNP-AC, CNE, ARNP**

APP Supervisor & Nurse Practitioner – Cardiac Critical Care  
Seattle Children's Hospital

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## CURRICULUM VITAE

**Ndidiamaka L Musa MD FCCM**

### 1. CONTACT INFORMATION

Ndidiamaka L Musa MD, FCCM  
University of Washington Department of Pediatrics, Division of Pediatric critical care  
Seattle Children's Hospital FA.2.112 PO Box 5371, Seattle, WA 98145-5005  
4800 Sand Point Way, NE  
Seattle, WA 98105  
206-987-2140  
[Ndidi.Musa@seattlechildrens.org](mailto:Ndidi.Musa@seattlechildrens.org)

### 2. PERSONAL DATA

Place of Birth: Chicago, IL USA

### 3. EDUCATION

03/1980-03/1982 Premed, University of Liberia, Monrovia, Liberia.  
03/1982-07/1987 M.D., A.M. Dogliotti Medical College, Monrovia, Liberia

### 4. POSTGRADUATE TRAINING

06/1991-06/1992 Externship, Mount Sinai Hospital, Chicago, IL  
06/1992-06/1995 Pediatric Residency, University of Chicago Hospitals, Chicago, IL  
07/1995-6/1998 Fellow, Pediatric Critical Care, University of Chicago Hospitals, Chicago, IL  
11/2001-10/2002 Fellow, Cardiac Critical Care, Children's Medical Center, Cincinnati, OH

### 5. FACULTY POSITIONS HELD

07/1998-10/2001 Clinical Assistant Professor of Pediatrics, Department of Pediatrics, Section of Pulmonology and Critical Care, Indiana School of Medicine, Indianapolis, IN.  
11/2002-06/2011 Assistant Professor, Department of Pediatrics, Division of Critical Care Medicine, The Medical College of Wisconsin, Milwaukee, WI  
07/2011-02/2013 Associate Professor, Department of Pediatrics, Division of Critical Care Medicine, The Medical College of Wisconsin, Milwaukee, WI  
03/2013- 07/2020 Associate Professor of Pediatrics, Department of Pediatrics, University of Washington School of Medicine, Seattle, WA  
07/2020-Present Professor of Pediatrics, Department of Pediatrics, University of Washington School of Medicine, Seattle, WA  
01/2022-Present Interim Co-Division Chief, Division of Pediatric Cardiac Critical Care, Department of Pediatrics, University of Washington School of Medicine, Seattle, WA.

### 6. HOSPITAL POSITIONS HELD

07/1998-10/2001	Attending Physician, James Whitcomb Riley Hospital for Children, Indianapolis, IN
07/1998-10/2001	Attending Physician, Methodist Hospital, Indianapolis,
11/2001-10/2002	Attending Physician, Children's Hospital and Medical Center, Cincinnati, OH
01/2002-10/2002	Attending Physician, Dayton Children's Hospital, Dayton, OH
02/2009-12/2010	Attending Physician, St Cloud Hospital, St Cloud MN
06/2010-02/2013	Attending Physician, St Mary's Hospital, Madison, WI
11/2002-02/2013	Attending Physician, Children's Hospital of Wisconsin, Milwaukee, WI
03/2013- Present	Attending Physician, Seattle Children's Hospital, University of Washington, Seattle, WA

## 7. HONORS

06/2001	Silver Recognition Award, Clarian Health Partners Indianapolis, IN.
06/2002	Award for excellence in Teaching James Whitcomb Riley Children's Hospital
06/2009	Outstanding Teacher of Pediatrics, Department of Pediatrics, Medical College of Wisconsin, Milwaukee, WI
06/2014	Award for Teaching excellence in use of NIRS technology. Graduating fellows' class 2014 Division of PCCM, Seattle Children's Hospital. Seattle, WA
09/2014	Postgraduate Medical Training Award presented by Ghana College of Physicians and Surgeons in appreciation of contribution to enhancing knowledge and practice of Medicine in Ghana.
02/2016	Fellow of the American College of Critical Care Medicine (FCCM)
02/2017	Society for critical care medicine Presidential Citation award
02/2018	Society for critical care medicine Presidential Citation award
02/2019	Society for critical care medicine Presidential Citation award
02/2020	Society for critical care medicine Presidential Citation award
02/2021	Society for critical care medicine Presidential Citation award

## 8. BOARD CERTIFICATION

03/2013-Current	Certified, American Board of Pediatrics, Pediatric Critical Care (MOC cycle 03/2013-12/2020)
12/1995-09/2003	Certified, American Board of Pediatrics, Pediatric
2008-Current	Pediatric Fundamentals of Critical Care (PFCCS)Instructor
2003-Current	Pediatric Advance Life Support (PALS) Instructor
2014-2016	Pediatric Emergency Assessment Resuscitation and Stabilization (PEARS)

## 9. CURRENT STATE LICENSE

03/2013-06/2020	State of Washington License Number 60329036
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## 10. PROFESSIONAL ORGANIZATIONS

06/1996 – 06/1998	American College of Chest Physicians
06/1996 – 06/2001	American Thoracic Society/American Lung Association
06/1999 – 06/2000	Christian Medical and Dental Association
06/2002 – 06/2013	American Heart Association

11/2011 – 02/2013 Midwest Consortium Global Health Committee  
 06/1996 – Present Society of Critical Care Medicine  
 06/2004 – Present Pediatric Cardiac Intensive Care Society  
 04/2016 – Present International Society for Heart and Lung Transplantation (ISHLT)

## 11. TEACHING RESPONSIBILITIES

### (a) Medical students and students in other health professions

Medical College of Wisconsin Courses taught

Course	Title	Credits	Years	Students	Responsibility
Clinical Biochemistry	Case based learning		2004-2005	5 per week	1 week rotation /month Teaching critical care as it relates to biochemistry
M4 Integrated selective in PCICU	Pediatric cardiac ICU		2010-2012	1 per month	One per month at a time Teaching cardiac physiology

### (b) Pediatric Resident

TABLE: Medical College of Wisconsin (MCW)-Pediatric resident bedside teaching responsibilities

2003-2013	Pediatric advanced life support
2010-2013	Pediatric cardiac intensive care lecture series weekly
2003-present	Bedside teaching to residents on Cardiac ICU elective rotations

### (c) Subspecialty Fellows

TABLE: Subspecialty fellows teaching responsibilities

2002-2013	Critical Care Fellows Conference, Presenter, CHW Wisconsin
2002-2013	Pediatric Cardiac Intensive Care Unit, Attending 20-24 weeks/year, Children's Hospital of Wisconsin (CHW) (Clinical preceptor, direct supervision of procedures)
2013-Current	Critical Care Fellows Conference, Presenter, Seattle Children's Hospital, WA
2013-Current	Pediatric Cardiac Intensive Care Unit, Attending 18 weeks/year, Seattle Children's hospital (Clinical preceptor, direct supervision of procedures)

### (d) Other Venues

06/2016- Present	Course director and instructor Pediatric fundamentals of critical care (PFCCS) Seattle Children's Hospital 4 courses per year
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### Mentoring

TABLE: Resident mentoring responsibilities CHW

06-2005-06/2008	Fatoumata Cesay Minority mentorship
09/2011-10/2011	Eleanor Eichman Global health mentoring in Ghana

09/2011-10/2011	Sonia Krishnan	Global health mentoring in Ghana
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TABLE: Fellow mentoring responsibilities (past 5 years) Non research

04/2012-06/2014	Tigist Bacha PCCM Fellowship (Ethiopia)	Clinical preceptor and mentor
04/2012-06/2014	Mulu Denberu PCCM Fellowship (Ethiopia)	Clinical preceptor and mentor
04/2013-06/2015	Meretu Temesgen PCCM Fellowship (Ethiopia)	Clinical preceptor and mentor
06/2013-06/2015	Erin Turner PCCM Fellow SCH	global health mentor and writing a manuscript
06/2015-06/2018	Shelton Wright Scholarship	oversight committee

## 12. EDITORIAL RESPONSIBILITIES

2016 – 2017	Invited Guest Editor Journal of Pediatric Intensive Care Global Health edition
2014 – Present	Associate Editor Frontiers Pediatric Critical Care Medicine Online Journal
2016 – Present	Associate Editor Pediatric Section Intensive Care Medicine Journal
2017 – 2018	Topic Editor Frontiers Pediatric Critical Care Medicine Online Journal

## 13. SPECIAL NATIONAL RESPONSIBILITIES

06/1996-Present	Society of Critical Care Medicine (SCCM) member
04/2011- 07/2018	Ghana College of Physicians and Surgeons Annual Continuing Medical Education Conference, Accra, Ghana Annual Conference Planning Committee Member
05/2011- 06/2015	SCCM Member Advanced Knowledge Assessment Committee
06/2011-06/2015	Pediatric Emergency Medicine/Critical Care Program Joint venture between Addis Ababa University/ Tikur Anbesa Specialized Hospital (AAU/TASH) Addis Ababa, Ethiopia and University of Wisconsin Madison, Wisconsin Provision of on-site supervision and training of fellows in the Program
06/2011 – 06/2017	World Federation of Pediatric Critical and Intensive Care Society Board Member
06/2013- 09/2017	Pediatric Emergency Medicine/Critical Care Program Joint venture between University of Nairobi and Seattle Children’s Hospital University of Washington Member of curriculum development and writing committee
07/2013 – Present	SCCM Sepsis 3 <sup>rd</sup> World Task Force Member Rwanda Project
05/2014 – 05/2015	European Society for Pediatric and Neonatal Intensive Care Society (ESPNIC) task force that produced a diploma of critical care for European Countries
09/2017 – Present	SCCM Congress Planning Committee member (Term 2018-2021)
02/2018 – 12/2020	Pediatric Cardiac Critical Care Society Co-Chair International Committee



- 02/2020-Present Pediatric Cardiac Critical Care Society Co-Chair Diversity Equity Inclusion Committee
- 04/2019- Present World Congress of Pediatric Cardiology and Cardiac Surgery planning committee member

#### **14. SPECIAL LOCAL RESPONSIBILITIES**

- 06/1998 – 10/2001 Member, Trauma Committee, Clarian Health Partners, Indianapolis, IN
- 06/1998 – 10/2001 James Whitcomb Riley Children’s Hospital, Clarian Health Partners
- 06/2000 – 10/2001 Member, Pediatric ECMO Team, JW Riley Children’s Hospital, Indianapolis, IN
- 11/2002 – 02/2013 Associate Medical Director, Pediatric Intensive Care Unit, Children’s Hospital of Wisconsin, Milwaukee, WI
- 01/2003 – 02/2013 Member Mobile ECMO team, Pediatric Cardiac Intensive Care, Children’s Hospital of Wisconsin, Milwaukee, WI
- 01/2007 – 04/2008 Ad Hoc Committee, Pediatric Cardiac Intensive Care Unit, Children’s Hospital of Wisconsin, Milwaukee, WI
- 06/2007 – 02/2013 Member, Pharmacy and Therapeutics Committee, Children’s Hospital of Wisconsin, Milwaukee, WI
- 06/2007 – 02/2013 Member, Cardiac Clinical Practice Committee, Children’s Hospital of Wisconsin, Milwaukee, WI
- 05/2010 – 02/2013 Pediatric Faculty Representative, MCW Faculty Council, Medical College of Wisconsin  
Member, Herma Heart Center Cardiac Research Committee, Children’s Hospital of Wisconsin
- 03/2013 – Present Heart Transplant Selection Committee, Seattle Children’s Hospital, Seattle, WA
- 06/2015- Present Continuous EEG Task Force Member, Seattle Children’s Hospital, Seattle, WA
- 06/2015 – Present Pediatric Fundamentals of Critical Care Program – Course Director for Critical Care  
Community Outreach Program, strengthening critical care capacity in local communities.  
(Washington, Alaska, Montana and Oregon)
- 06/2015 – Present Member of Pediatric Critical Care Medicine Clinical Competency Committee, Seattle  
Children’s Hospital, Seattle, WA
- 06/2018 –Present CICU faculty recruitment committee, Seattle, WA
- 04/15/21-Present Member of the Board of Directors Children’s University Medical Group

#### **15. RESEARCH FUNDING**

### Active Funding

None

### Pending Funding

None

### Completed Funding

NIH Training Grant: Research Training in Respiratory Biology HL 07605                      06/1995-06/1998  
University of Chicago  
Role: Fellow  
Clinical Research Scholars Program: Award K30HL0411205                                      08/2003-07/2005  
Medical College of Wisconsin  
Role: Fellow

## 16. BIBLIOGRAPHY

### (a) Peer-reviewed publications

1. Ramakrishnan, Meera. Liu, Pai. Li, Jing. **Musa, Ndidiamaka L.** Hershenson, Marc B. Lysophosphatidic acid potentiates polypeptide growth factor -induced airway smooth muscle DNA synthesis. *Pediatric Research*. 41(4)Part 2:306, April 1997 PMID: 2117644 PMCID000000
2. Ramakrishnan M, **Musa NL**, Li J, Liu P, Pestell RG, Hershenson MB. Catalytic activation of extracellular signal-regulated kinases induces cyclinD<sub>1</sub> expression in airway smooth muscle. *Am J Respir Cell Mol Biol*, 18:736-740, 1998. PMID: 9618377
3. **Musa NL**, Ramakrishnan M, Li J, Liu P, Pestell RG, Hershenson. Forskolin inhibits cyclinD<sub>1</sub> expression in airway smooth muscle. *Am J Respir Cell Mol Biol*, 20:352-358, 1999. PMID: 9922228
4. Schwartz SM, Dent CL, **Musa NL**, Nelson DP. Single ventricle physiology. *Critical Care Clinics*, 19 (2003)393-411. PMID: 12848312
5. Kurachek SC, Newth CJ, Quasney MW, Rice T, Sachdeva RC, Patel NR, Takano J, Easterling L, Scanlon M, **Musa N**, et al. Extubation failure in pediatric intensive care: a multiple-center study of risk factors and outcomes. *Crit Care Med*. 2003 Nov; 31(11):2657-64 PMID: 14605539
6. Hoffman GM, Mussatto KA, Brosig CL, Ghanayem NS, **Musa N**, Fedderly RT, Jaquiss RD, Tweddell JS. Systemic venous oxygen saturation after the Norwood procedure and childhood neurodevelopmental outcome. *J Thorac Cardiovasc Surg*. 2005 Oct; 130(4):1094-100 PMID: 16214525
7. \*Tweddell JS, Ghanayem NS, Mussatto KA, Mitchell ME, Lamers LJ, **Musa NL**, Berger S, Litwin SB, Hoffman GM. Mixed venous oxygen saturation monitoring after stage 1 palliation for hypoplastic left heart syndrome. *The Annals of Thoracic Surgery*. 2007 Oct; 84 (4): 1301-10; discussion 1310-1. PMID: 178888987

8. Owens J and **Musa N**. Nutrition Support After Neonatal Cardiac Surgery. *Nutrition in Clinical Practice Vol24, No. 2 April-May 2009, pp242-249* PMID: 19321898
9. Mark E Ralston, Louise T Day, Tina M Slusher, **Ndidiamaka L Musa**, Helen S Doss. Global paediatric advanced life support: Improving child survival in limited-resource settings. *The Lancet Vol381,9862.January 2013 pp256-265*. PMID: 23601947
10. \*Turner E, Nielsen K, Jamal S,von Saint Andre- von Arnim A, **Musa N**. A Review of Pediatric critical care in resource-limited settings: a look at past present and future direction *Front Pediatr 2016 Feb18;4:5*. PMID: 26925393
11. \***Musa N**, Murthy S, Kissoon N: Pediatric sepsis and septic shock management in resource-limited settings. *Intensive Care Medicine Vol 42, No12/Dec 2016*. PMID: 27216799
12. **NMusa**, N Shilkofski: Interface of Global health and pediatric critical care. *Journal of Pediatric Intensive Care, 06: January 2017;001-005* DOI: 10.1055?s-0036-1584679; ISSN 2146-4618
13. Amelie O van Saint Andre-von Arnim, Shelia M Jamal, Grace John-Stewart, **Ndidiamaka L Musa**, et al. Pediatric respiratory support technology and practices: A global survey. *Healthcare 2017, 5, 34*. PMID: 28754002
14. Marcus J Schultz, Martin W Dunser, **Ndidiamaka L Musa**, et al: Current challenges in the management of sepsis in ICUs in resource-poor settings and suggestions for the future. *Intensive care May 2017, Vol43(5)612-624*. PMID: 28349179
15. \***Ndidiamaka L Musa**, Vibeke Hjortdal, Bistra Zhelva et al. The global burden of paediatric heart disease. *Cardiol in the young Dec 2017 27,56 S3-S8*. PMID: 29198256
16. \*Amelie Von Saint Andre-Von Arnim, Jonah Attebery, **Ndidiamaka L Musa** et al. Challenges and priorities for pediatric critical care clinician-researchers in low and middle –income countries. *Front.Pediatr, 22 Dec2017 (6) 277, 1-6*. PMID: 29312909
17. Indah Kartika Murni, **Ndidiamaka L Musa**. The case for specialized pediatric cardiac critical care training program in limited resource settings. *Front.Pediatr 14 Mar2018(6)59,1-4*. PMID: 29594089
18. Kwizera A, Baeiani I, Mer M, KissoonN, Schultz M, Patterson A, **Musa N**, Farmer J, Dunser M. The long sepsis journey in low-and middle-income countries begins with a first step but on which road?. On behalf of the Sepsis in Resource –Limited Settings Group of the Surviving Sepsis Campaign: *Critical Care 22(1) December 2018*. PMID: 29523184
19. Urayeneza O, Mujarugamba P, Rukemba Z, Nyiringabo V, Ntihinyurwa P, **Musa N**, et al. Increasing evidence-based interventions in patients with acute infections in a resource-limited setting: A Before and after feasibility trial in Gitwe, *Crit Care Med. 2018 Aug;46(8):1357-1366*. PMID: 29957715
20. Urayeneza O, Mujarugamba P, Rukemba Z, Nyiringabo V, Ntihinyurwa P, **Musa N**, et al. Increasing evidence-based interventions in patients with acute infections in a resource-limited setting: A Before and after feasibility trial in Gitwe, *Intensive Care Med. 2018 Sep;44:1436-1446*. PMID: 29955924
21. Murthy S, Chugh K, **Nusa N**, Ouellette Y, Phuc P, Pediatric critical care in low resource settings a call to action editorial. *Front. Pediatr.,20 March 2019(7)80, 1-2 doi.10.3389/fped.2019.00080*

22. Kwizera A, Kissoon N, **Musa N**, Urayenza O, Mularugamba, Patterson A, Harmon L, Farmer J, Dunser M, Meier J, Machine learning-based prediction of hospital mortality in children with suspected infection in a low a low resource setting *PCCM 2019 Dec:20(12) e524-e530*
23. Keene J, Wainright M, Morgan L Mietzsch U, **Musa N** et al. Efficacy and Safety of First line Levetiracetam for Seizures in Neonates after Congenital Heart Defect repair with or without Extracorporeal Membrane Oxygenation JPPT accepted for publication. 06/2021
24. **Musa N**, Kissoon N. Acute life-threatening infections and sepsis in resource limited settings. European society of critical and intensive care medicine (ESCIM) Sepsis ALIVE project

(b) Book Chapters

1. Schwartz SM, Nelson DP, Dent CL, **Musa NL**, Wheeler DS. Single Ventricle Lesions In Textbook of Pediatric Critical Care Medicine, Basic Science and Clinical Evidence. 1st Edition. Derek Wheeler, Hector Wong and Thomas Shanley. Springer-Verlag 2007
2. Schwartz SM, Nelson DP, Dent CL, **Musa NL**, Wheeler DS. Single Ventricle Lesions In Cardiovascular Pediatric Critical Illness and Injury. 1st Edition. Derek Wheeler, Hector Wong and Thomas Shanley. Springer-Verlag 2009.
3. Rachel Umoren, Brian Montague, **Ndidiamaka L Musa**. Global Health Partnership Building and Collaboration. 2<sup>nd</sup> Edition A Guidebook for Medical and Professional Schools. Lulu 2014
4. Aimee Jennings, Katherine Banker, **Ndidiamaka L Musa**. Cardiac Output Monitoring in The Pediatric ICU: State of the Art. Pediatric Current Concepts Book. 2016 Pediatric
5. Fundamentals of Critical Care. 3<sup>rd</sup> Edition 2018 Editor Chapter 1 Assessment of the critically ill child and Chapter 7 Acute Infections. Society of critical care medicine 2018
6. **Musa N**, Murthy S, Kissoon N. Pediatric sepsis and septic shock management in resource-limited settings in Dondrop A, Dunser MW, Shultz MJ, Sepsis management in resource-limited settings 1<sup>st</sup> ed. Springer 2019

(d) Other publications None

(e) Submitted manuscripts

1. Hong BJ, Jorgensen N, Friedland-Little J, Albers E, Mazor R, Musa N, Kemna M, Law K. BNP predicts poor outcome in children hospitalized with acute decompensated heart failure.

(f) Abstracts (Last 5years)

1. Tigist B Heye, Muluwork Denberu, Ndidi Musa, Scott Hagen. Development of partnership for the creation of pediatric critical care at Addis Ababa University/ Tikur Anbesa Specialized Hospital (AAU/TASH). 7th World Congress of Pediatric Critical Care and Intensive Care Medicine 2014(Abstract)
2. Jamal S, Von Saint Andre Von Arnim A, Musa N. Pediatric Acute Care Training Curriculum for Resource Limited Settings: Results of an Online Survey. Pediatric Academic Society Meeting 2015 (Abstract)
3. von Saint Andre Von Arnim A, Jamal S, John-Stewart G, Musa N, Roberts J, Stanberry L, Howard C. Pediatric respiratory support technology and practices: A Global survey. 8th World Congress on Pediatric Critical Care. June 2016 (Abstract)
4. N Musa, Y. Law, N Richardson, et al. Use of Isosorbide Dinitrate/Hdyralazine combination in pediatric patients with heart failure (Abstract). 38th Annual Meeting IHSLT April 2018
5. B, Hong, J Friedland-Little, E Albers, N **Musa** et al. Risk Factor for Poor Outcomes in Children Hospitalized with Acute Decompensated Heart Failure Abstract Vol 37 (4) April 2018 Pg S391

## 17. OTHER

### Invited Lectures

#### (a) National/International

- |         |  |
|---------|--|
| 11/2007 | Invited speaker: Goma Government Hospital, Goma, Democratic Republic of Congo (DRC)<br>Title: Management of Shock in the pediatric patient   |
| 11/2007 | Invited speaker: Heal Africa Hospital Goma, DRC<br>Title: Management of Pediatric Asthma<br>Management of DKA<br>Management of Shock   |
| 09/2009 | Invited speaker 9 <sup>th</sup> Annual advances in Medicine: CME Conference in Kumasi, Ghana<br>Title: Pediatric Intensive care in resource-limited settings<br>Workshop: Management of septic shock<br>Pediatric Advanced Life Support (PALS)               |
| 02/2010 | Invited speaker: 32 <sup>nd</sup> Annual Continuing Medical Education Conference, CMDA<br>Brackenhurst, Kenya<br>Topics: Management of Sepsis in resource-limited settings<br>Neonatal Emergencies<br>Workshop: Mechanical ventilation of pediatric patients |
| 09/2010 | Invited speaker: 10 <sup>th</sup> Annual Advances in Medicine; Continuing Medical Education<br>Conference, Kumasi Ghana<br>Topic: Management of shock in Resource Limited Settings   |

- 02/2011 Invited speaker 33<sup>rd</sup> Annual Continuing Medical Education Conference, Chiang Mai, Thailand. Topic: Management of shock
- 09/2011 Invited speaker: The Ghana College of Physicians and Surgeons Continuing Medical Education Conference, Accra, Ghana  
Critical care course director  
Presentation Title: Shock in the critically ill child and respiratory failure
- 02/2012 Invited speaker: 34<sup>th</sup> Annual Continuing Medical Education Conference, CMDA Brackenhurst, Kenya  
Topics: Management of shock and the FEAST trial  
Respiratory failure in resource limited settings  
Pediatric Advanced Life Support (PALS)  
Helping Babies Breath (HBB)
- 09/2012 Invited speaker: Planning Committee Member and Speaker at The 2<sup>nd</sup> Ghana College of Physicians and Surgeons Continuing Medical Education Conference, Accra, Ghana. Topics: Asthma Management in Resource Limited Setting  
Respiratory Disease in Children  
Evidence Based Medicine –The FEAST Trial  
Workshop: Pediatric Advanced Life Support (PALS)
- 11/2012 Invited speaker: 5<sup>th</sup> International Conference of the Egyptian Society of Pediatric Intensive Care in Collaboration with World federation of Pediatric Intensive Care Society, Hurghada Egypt,  
Topics: Low Cardiac Output Syndrome Post Congenital Heart Surgery  
Use of Near Infra-Red Spectroscopy in the Pediatric Cardiac ICU
- 02/2013 Invited speaker: 34<sup>th</sup> Annual Continuing Medical Education Conference CMDA, Chiang Mai, Thailand  
Topics: Management of shock  
Respiratory failure in resource limited settings  
Pediatric Advanced Life Support (PALS)  
Helping Babies Breath (HBB)
- 06/2013 Invited speaker: Hopital Universitaire International Cheikh Zaid Hospital Rabat  
Topic: Low cardiac output syndrome a lesion based approach  
Sepsis and the FEAST trial implications and applicability
- 07/2013 Invited speaker SCCM sponsored pediatric fundamentals of critical care Yerevan, Armenia  
Topics; Shock  
Assessment of the critically ill child
- 09/2013 Invited speaker: 3<sup>rd</sup> Ghana College of Physicians and Surgeons Continuing Medical Education Conference. Kumasi, Ghana.  
Topics: Pediatric Critical Care in resource limited settings challenges and the way forward
- 05/2014

- 06/2014 Invited speaker: Pediatric Emergency Assessment Resuscitation and Stabilization (PEARS), Malepole, Botswana  
Topics: Respiratory failure  
Shock
- 07/2014 Invited speaker: Hopital Universitaire International Cheikh Zaid Hospital Rabat, Morocco  
ECMO  
Respiratory failure in children with heart disease
- 09/2014 Invited speaker :7<sup>th</sup> World Congress on Pediatric Critical Care Istanbul Turkey  
Moderator Pro-Con debate: Bolus fluids increase morbidity in severe sepsis  
Topic: “Less is more cardiovascular assessment should guide fluid administration”
- 11/2014 Invited speaker: Pediatric Emergency Assessment Resuscitation and Stabilization (PEARS), Malepole, Botswana  
Topics: Respiratory failure  
Shock
- 02/2015 38<sup>th</sup> SCCM Congress San Antonio Texas, 20Abstract Reviewer and Co-Moderator Professor  
Walk Rounds Abstract Session Cardiovascular Monitoring
- 04/2015 Invited speaker: Pediatric Basics Pediatric Critical care, Tel Aviv, Israel  
Topic: Cardiogenic Shock
- 06/2015 Invited speaker SCCM sponsored pediatric fundamentals of critical care Yereven, Armenia  
Topics; Shock  
Assessment of the critically ill child
- 08/2015 Invited speaker SCCM sponsored pediatric fundamentals of critical care Shenzen, China  
Topics; Shock  
Assessment of the critically ill child  
Respiratory failure
- 06/2016 Invited speaker: 8<sup>th</sup> World Congress on Pediatric Critical Care. Toronto, Canada.  
Topic Educational collaborations in resource limited settings
- 07/2016 Invited speaker: SCCM 3<sup>rd</sup> World Sepsis Task Force and Gitwe project Gitwe, Rwanda  
Topic: Surviving Sepsis Campaign workshop
- 09/2016 Invited speaker: 5<sup>th</sup> FIESTA Ghana College of Physicians and Surgeons annual CME  
conference Accra, Ghana  
Topics: Pediatric intensive care a new approach to saving children’s live  
challenges and the way forward  
Non-invasive respiratory support systems an approach to treating children with severe  
pneumonia

- 06/2107 Invited speaker SCCM sponsored pediatric fundamentals of critical care Addis Ababa, Ethiopia  
Topics; Shock  
Assessment of the critically ill child  
Respiratory failure  
Sedation
- 11/2017 Invited speaker SCCM sponsored pediatric fundamentals of critical care Abuja, Nigeria  
Topics; Shock  
Assessment of the critically ill child  
Respiratory failure  
Transport
- 11/2018 Invited speaker SCCM sponsored pediatric fundamentals of critical care Hanoi, Vietnam  
Topics; Shock  
Assessment of the critically ill child  
Respiratory failure  
Transport
- 02/2019 Moderator 48<sup>th</sup> SCCM Congress San Diego California USA. February 17-20<sup>th</sup>  
Moderator Mending little hearts  
Moderator Controversies in the management of the Pediatric ECMO patient.
- 04/2019 Invited speaker SCCM sponsored pediatric fundamentals of critical care Nanjing, China  
Topics; Introduction to PFCCS  
Respiratory failure  
Integrated Simulation
- 04/2019 Invited speaker SCCM sponsored pediatric fundamentals of critical care Lanzhou, China  
Topics; Introduction to PFCCS  
Mechanical Ventilation  
Respiratory failure
- (b) Regional
- 03/2011 7<sup>th</sup> Annual Global health Symposium University of Wisconsin, Madison WI  
Title: Continuing Medical Education an opportunity to invest in Resource-Limited Countries the African Partners Medical Story,
- 06/2013 Airlift North West Boeing field, Seattle WA  
Title: Management of the blue baby
- 10/2016 SCCM sponsored PFCC Community Hospital Missoula MT



Title Pediatric Shock, Respiratory failure, and Sedation

- 03/2017 SCCM sponsored PFCC Community Hospital Missoula MT  
Title Pediatric Shock, Respiratory failure, and Sedation
- 05/2017 SCCM sponsored Asante Rogue Hospital Systems Medford OR  
Title Pediatric Shock, Respiratory failure, and Sedation
- 08/2017 SCCM sponsored PFCC Billings Hospital Billings MT  
Title Pediatric Shock, Respiratory failure, and Sedation
- 03/2018 SCCM sponsored PFCC Benefis Hospital Great Falls  
Title Pediatric Shock, Respiratory failure, and sedation
- 06/2018 SCCM sponsored PFCC Airlift Northwest Juneau AK  
Title Pediatric Shock, Respiratory failure, and Sedation
- 10/2018 SCCM sponsored PFCC Community Hospital Missoula MT  
Title Pediatric Shock, Respiratory failure, and Sedation
- 10/2018 SCCM sponsored PFCC Benefis Hospital Great Falls MT  
Title Pediatric Shock, Respiratory failure, and Sedation

(c) Other-

- 06/2010 Grand Rounds Presentation October 2006 Children's Hospital of Wisconsin Milwaukee, WI  
Title: Use of functional MRI to detect early cerebral abnormalities in Neonates with transposition the great vessels – A Pilot Study
- 07/2012 Medical College of Wisconsin Research Day Milwaukee, WI.  
Title: N Musa JE Baker et al Nitrites Improves Preservation of Donor Heart for Transplant
- 12/2013 Nursing Education Day Seattle Children's Hospital Seattle WA  
Title: Use of Near-infra red spectroscopy in the management of a neonate with HLHS
- 03/2014 Advance practice providers education day Seattle Children's Hospital Seattle, WA  
Title: Cardiovascular physiology and shock
- 06/2014 Respiratory Care Conference Seattle Children's Research Institute Seattle, WA  
Title: Cardiopulmonary interactions
- 03/2015 CICU Nurses Clinical Competency Seattle Children's Hospital Seattle WA  
Title: NIRS in the Management of Patients with CHD
- 07/2015 Pediatric Grand Rounds Seattle Children's Hospital, Seattle, WA  
Title: Building Pediatric Critical Care Capacity in Limited Resource Settings
- 03/2016 CICU Nurses Clinical Competency Classes Seattle Children's Hospital, Seattle WA  
Title: NIRS in the Management of Patients with CHD

- 06/2016            Respiratory Care Practitioners Seattle Children's Hospital, Seattle, WA  
Title: Ventilating an infant with cardiac disease
- 10/2016            CICU Nurses Clinical Competency Seattle Children's Hospital Seattle WA  
Title: NIRS in the Management of Patients with CHD
- 03/2017            Respiratory Care Practitioners Seattle Children's Hospital, Seattle, WA  
Title: Cardiopulmonary Interactions,
- 05/2017            CICU Nurses Clinical Competency Classes Seattle Children's Hospital, Seattle WA  
Title: NIRS in the Management of Patients with CHD
- 10/2017            Center for Integrative Brain Research and Heart Center Research Conference: Talaris  
Conference Center, Seattle WA,  
Topic: Development of a Pre and Post-Operative Screening Protocol to Identify Perioperative  
Brain Injury in Complex Congenital Heart Disease
- 03/2018            Neonatology Fellows Seattle Children's Hospital, Seattle, WA  
Title: Cardiovascular Pharmacology
- 07/2018            Neuro-critical Care Conference: Seattle Children's Hospital, Seattle WA  
Title: The Heart Circulation and the Brain in Neonates with Congenital Heart Disease

