

CURRICULUM VITAE

Ndidiamaka L Musa MD FCCM

1. CONTACT INFORMATION

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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 rd 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 cyclinD₁ 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 cyclinD₁ 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. 2nd 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. 3rd 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 1st 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)
Title: Management of Shock in the pediatric patient |
| 11/2007 | Invited speaker: Heal Africa Hospital Goma, DRC
Title: Management of Pediatric Asthma
Management of DKA
Management of Shock |
| 09/2009 | Invited speaker 9 th Annual advances in Medicine: CME Conference in Kumasi, Ghana
Title: Pediatric Intensive care in resource-limited settings
Workshop: Management of septic shock
Pediatric Advanced Life Support (PALS) |
| 02/2010 | Invited speaker: 32 nd Annual Continuing Medical Education Conference, CMDA
Brackenhurst, Kenya
Topics: Management of Sepsis in resource-limited settings
Neonatal Emergencies
Workshop: Mechanical ventilation of pediatric patients |
| 09/2010 | Invited speaker: 10 th Annual Advances in Medicine; Continuing Medical Education
Conference, Kumasi Ghana
Topic: Management of shock in Resource Limited Settings |

- 02/2011 Invited speaker 33rd 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: 34th 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 2nd 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: 5th 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: 34th 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: 3rd 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 :7th 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 38th 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: 8th World Congress on Pediatric Critical Care. Toronto, Canada.
Topic Educational collaborations in resource limited settings
- 07/2016 Invited speaker: SCCM 3rd World Sepsis Task Force and Gitwe project Gitwe, Rwanda
Topic: Surviving Sepsis Campaign workshop
- 09/2016 Invited speaker: 5th 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 48th SCCM Congress San Diego California USA. February 17-20th
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 7th 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