Web: Jordanssmile.org
Facebook: Jordan Smelski Foundation for Amoeba Awareness
Steve Smelski (407) 314-5540
Amoeba Summit 2017 Program

7:30 a.m. to 8 a.m.
Registration and Breakfast

8 a.m. to 8:05 a.m.
Introductions
Steve Smelski, President, Jordan Smelski Foundation

8:05 a.m. to 8:30 a.m.
Opening Remarks
Rajan Wadhawan, MD, MMM Chief Medical Officer, Florida Hospital for Children
Deborah Spielman, VP, COO/Assistant Administrator, Florida Hospital for Children
Kevin Sherin, MD, Health Officer, Florida Department of Health in Orange County
Donna Walsh, MPA Health Officer, Florida Department of Health in Seminole County

8:30 a.m. to 9 a.m.
Keynote Speaker
Jennifer Cope, MD, Centers for Disease Control and Prevention

9 a.m. to 9:30 a.m.
Research Update
Francine Marciano-Cabral, PhD, Virginia Commonwealth University

9:30 a.m. to 10 a.m.
Clinical Laboratory Awareness
Shiela L. Black, MHM, Florida Hospital Orlando

10 a.m. to 10:30 a.m.
Florida Hospital for Children Case Update
Humberto Liriano, MD, Florida Hospital for Children

10:30 a.m. to 10:45 a.m.
Break

10:45 a.m. to 11:15 a.m.
Florida Hospital Protocol
Sara Kirby, MD, Florida Hospital for Children

11:15 a.m. to 11:45 a.m.
Workgroup Updates
Early Detection Workgroup
Juan A. Dumois, MD, Johns Hopkins All Children’s Hospital
Prevention & Awareness Workgroup
Kevin M. Sherin, MD, Florida Department of Health in Orange County

11:45 a.m. to 1 p.m.
Lunch

September 29, 2017

Jordan Smelski graduated from the 5th grade at Wilson Elementary School in May 2014. Jordan was active in sports including soccer, football and baseball. Jordan excelled in academics, enjoyed writing and had a passion for art. Outside of school, Jordan loved fishing, swimming, horseback riding and zip-lining, but his greatest passion was video games. He loved to play video games with his family and friends. Jordan is fondly remembered by his many close friends and family as a confident, determined outgoing boy, who always wanted to go first, made friends easily, was charismatic and always smiling.

For his 2014 summer vacation, Jordan wanted to return to Costa Rica after having visited in 2011. The family summer vacation included horseback riding, zip-lining down a volcano, visiting an animal sanctuary, a butterfly laboratory, a frog exhibit, an aviary with Toucans, Macaws, and a hummingbird garden. One of the extra activities included swimming and going down a water slide into a hot spring fed swimming pool. This was the only time we went swimming in Costa Rica.

We were unaware that the hot spring water was not treated with chlorine before it was pumped into the pools and water slide. Repeatedly going down the slide forced water into Jordan’s nose. Soon after returning home to Orlando, Jordan developed severe headaches and a neck ache and was rushed to the emergency room. Jordan was admitted later that day and passed away just three days later. It was determined Jordan had died of Primary Amoebic Meningoencephalitis (PAM) which is caused by the amoeba Naegleria fowleri.

JORDAN SMELSKI FOUNDATION for AMOEBA AWARENESS

The Jordan Smelski Foundation for Amoeba Awareness: www.jordanssmile.org is spreading the word about the dangers of Naegleria fowleri and Primary Amebic Meningoencephalitis (PAM). We are working with Florida Hospital for Children and All Children’s Hospital Johns Hopkins Medicine in St. Petersburg, Florida to change the outcomes for PAM cases. We are raising funds for:

- Research into methods for early diagnosis, creating a new care pathway for best treatment possible for PAM cases.
- Research on the response of the amoeba Naegleria fowleri to environmental conditions.
- Training classes for healthcare professionals.
Amoeba Summit 2017 Sponsor Appreciation

Thank You Host Organization

Florida Hospital for Children
Florida Hospital Church

Special Thank You

Jordan Smelski Foundation for Amoeba Awareness
Steve & Shelly Smelski, Parents of Jordan Smelski

Thank You Partnering Organizations

Florida Department of Health in Seminole County
Florida Department of Health in Orange County

Thank You to

Amoeba Summit 2017 Program

1 p.m. to 1:45 p.m.
Breakout Sessions—Five Choices
Awareness & Prevention
Kevin M. Sherin, MD, Florida Department of Health in Orange County
Jennifer Cope, MD, Centers for Disease Control and Prevention

Early Detection
Juan A. Dumois, MD, Johns Hopkins All Children’s Hospital
Vincent Valente, DO, Florida Hospital Flight & EMS
Dennis M. Drehner, DO, Nemours Children’s Hospital

Treatment
William M. Linam, MD, Arkansas Children’s Hospital
Humberto Liriano, MD, Florida Hospital for Children
Alejandro Jordan-Villegas, MD, Florida Hospital for Children

Research
Francine Marciano-Cabral, PhD, Virginia Commonwealth University
Ibne Ali, PhD, Centers for Disease Control and Prevention
Shantanu Roy, MS, Centers for Disease Control and Prevention

Laboratory Awareness & Detection
Sheila L. Black, MHM, Florida Hospital Orlando
Maria Brock, BSMT, Florida Hospital

1:45 p.m. to 2:00 p.m.
Transition to General Assembly

2 p.m. to 2:30 p.m.
Group Presentations
Awareness & Prevention
Kevin M. Sherin, MD, Florida Department of Health in Orange County

Early Detection
Juan A. Dumois, MD, Johns Hopkins All Children’s Hospital

Treatment
Humberto Liriano, MD, Florida Hospital for Children

Research
Francine Marciano-Cabral, PhD, Virginia Commonwealth University

Laboratory Awareness & Detection
Sheila L. Black, MHM, Florida Hospital Orlando

2:30 p.m. to 3 p.m.
Conclusion and Call to Action
Sandra Gompf, MD and Tim Gompf, MD, Amoeba-Season
Steve and Shelly Smelski, Jordan Smelski Foundation

September 29, 2017
General Work Group Information

These facilitator-led workgroups represent ongoing efforts which began from the Second Annual Summit; all directed towards the prevention of deaths from PAM, and will be active through the year, leading up to the Fourth Annual Summit in 2018. Suggested topics will be provided to initiate the new activities. The goal of each workgroup will be to determine two to three projects to undertake. A work group coordinator(s) will be determined by the group to coordinate efforts through the year. Periodic “meetings” (e.g. conference calls, e-mails, other methods) will be held through the year by the coordinator(s) in each workgroup to help accomplish the projects. Communication between the groups throughout the year is encouraged, for maximum effectiveness. The projects decided upon by the work group will be reported by the facilitators when the groups re-convene today at 2:00 pm.

Awareness and Prevention:

Awareness and prevention is where “it all starts” with respect to saving lives from Primary Amebic Meningoencephalitis. There are many different audiences which should be targeted; arbitrarily they can be grouped into “lay person public” and the “health care community” which include, in part: parents, adults, children and teens, and schools, in the “lay public” group, and emergency medicine clinicians, family practitioners, pediatricians, and others in the “health care community” group. Participants in this group will present and discuss any ideas for amoeba awareness programs targeted to these audiences. Unique and novel ideas and methods of dissemination will also be encouraged and discussed, all with the ultimate goal of effective messaging for prevention.

Early Detection (at point of care):

The very few successful treatment outcomes to date have resulted from early awareness and detection at the point of care. A discussion of this critical issue can begin with a review of this workgroup’s outstanding accomplishment since last year’s Summit: The Amoeba Algorithm. Discussion topics could include the best methods of dissemination of the Amoeba Algorithm to hospital systems as a suggested method for awareness and early detection. Additionally, all new ideas for promoting awareness and early detection measures in the emergency department and other points of care, based on the participants’ experience, are encouraged. Ideas for incorporating history elicitation (nasal freshwater exposure within the past 2 weeks) in meningitis-like cases would be an integral part of the discussion.
Amoeba Summit 2017 Workgroups

Notes

Treatment:
A standard of care, resulting from the three cases in the U.S. in which no residual deficits occurred, does exist. The most recent of these cases, at Florida Hospital for Children in Orlando, and Arkansas Children’s Hospital in Little Rock, in 2016 and 2013, respectively, included induced coma and therapeutic hypothermia. Priorities for discussion and action in this group could include (but certainly not be limited to) ideas for nationwide dissemination of the successful protocol to intensivists, infectious disease practitioners, and all others in the care pathway, for example, the possible development of a CME video presentation which could be available on a nationwide educational platform through a medical association. Additional topics are encouraged.

Notes

Research:
There are many research avenues to pursue regarding Naegleria fowleri-all directed to preventing deaths from PAM. Many key questions regarding the organism still exist, including virulence factors, strain differences, and specific host factors promoting invasion, among others. The study of amoeba-specified gene products utilizing a proteomics approach with MS-MS has recently been adopted, which yielded results suggesting candidate targets in the organism for treatment of PAM. Rapid-throughput drug discovery methods have also been employed. The fundamental, long-standing issue of the lack of available research funding on Naegleria fowleri and PAM nationally has greatly limited opportunities for beneficial research. A discussion of this issue, along with a prioritization of research directions, in addition to other topics, can be undertaken.

Notes

Lab Awareness and Detection:
Clinical laboratory personnel play a critical role in the successful outcome of any PAM case-not only from the perspective of utilizing the proper techniques for rapid detection of the organism, but also in the extremely important area of awareness that any CSF specimen submitted to the lab for a meningitis work-up may, in fact, be from a patient with PAM. Communication to the ordering clinician from the lab would be of utmost importance in this scenario, to verify if a nasal freshwater exposure history was determined. Time is of the essence in this fulminant, devastating infection. The detection techniques differ from those of bacterial meningitis. Participants will discuss ideas for effective messaging to clinical laboratorians nationwide.
IBNE ALI, PHD  
Centers for Disease Control and Prevention  

Ibne Ali, PhD is a biologist with the Waterborne Disease Prevention Branch in the National Center for Emerging and Zoonotic Infectious Diseases. He is the principal investigator of the Free-Living and Intestinal Amoeba’s (FLIA) laboratory. He oversees the overall diagnostic and research activities of the FLIA laboratory which studies the free-living amoebae (Naegleria, Balamuthia, Acanthamoeba, and Sappinia) and intestinal ameba (Entamoeba histolytica, E. dispar, E. moshkovskii, and E. bangladesh). Dr. Ali began his current position at the Centers for Disease Control and Prevention in December 2013. Dr. Ali obtained a BS and MS, both in Biochemistry from the University of Dhaka, Bangladesh. He received his doctoral degree from the London School of Hygiene and Tropical Medicine, University of London in 2005. He completed postdoctoral trainings at the Departments of Microbiology and Immunology at Stanford University, and at the Department of Infectious Diseases at the University of Virginia. Dr. Ali was faculty at the University of Virginia School of Medicine since 2010 prior to joining the Centers for Disease Control and Prevention in 2013.

SHIELA BLACK, MHM, BSMT (ASCP)  
Laboratory Coordinator, Florida Hospital Orlando, Florida  

Shiela Black, MHM, BSMT (ASCP), received her B.S. degree in Health Sciences in Medical Technology from the University of Florida and her Master’s degree in Heath Management from St. Thomas University in Miami. She is nationally certified as a medical technologist by the American Society for Clinical Pathology and licensed in the State of Florida as a clinical laboratory supervisor. Her thirty-three years of experience in the clinical laboratory includes positions as assistant laboratory director at Pembroke Pines General Hospital in South Florida as well as Central Florida Regional Hospital in Sanford. She has been a member of the Florida Hospital laboratory team for the past twenty-seven years.

Maria L. Brock, BSMT, ASCP(S), ART  
Manager of Hematology, Coagulation and Urinalysis at Florida Hospital Orlando, Florida  

Maria Brock, BSMT, (S) ASCP, ART, is a member of the American Society of Clinical Pathology (ASCP) Workshops for Laboratory Professionals, and a lecturer on various topics such as anemias, different types of leukemia, and the analysis of body fluids for clinical conditions. She also teaches leadership courses. Maria’s passion is amoeba awareness. She always includes amoeba awareness in any talk she provides. She has carried forward the impetus of the “Awareness and Prevention” work group from the Second Annual Amoeba Summit in 2016 with the idea for a Grand Rounds on amoeba awareness for laboratorians and clinicians which was conducted in the Spring of this year, just before outdoor swimming season. Maria is the co-founder of the Florida Hospital Innovation Lab (FHIL), where she created the “Amoeba Slayers”, a group organized to further amoeba awareness though innovative ideas. She created the concept of an educational video which will provide CEU’s to laboratorians on amoeba awareness and detection techniques, including “Best Practices”, and, through her leadership of the “Amoeba Slayers” at FHIL, along with the support of FHIL staff, finalized concepts for the video, which has been produced.

DONNA WALSH, MPA, BSN, RN  
Health Officer, Florida Department of Health in Seminole County  

Donna Walsh is the Health Officer for the Florida Department of Health in Seminole County. She is a proven leader and excellent community liaison who is recognized for her expertise in the field of public health, serving on multiple community boards. Donna is a formally trained nurse and epidemiologist who has worked in the field of public health for over 30 years and held leadership positions with the Florida Department of Health for over 12 years. She graduated from the University of Central Florida Nursing Program in 1986 and received her Masters in Public Administration from the same university in 2008. She is recognized for establishing community partnerships and creating innovative solutions to meet the needs of communities. She has co-authored several academic publications and presented on public health topics in professional and community forums, including Naegleria fowleri and Primary Amoebic Meningoencephalitis (PAM). She is instrumental in completing requirements for the recent Florida Department of Health accreditation application to the National Public Health Accreditation Board for Seminole County and facilitated the completion of the Community Health Assessment and Improvement Plan for the county. Donna was named as the Learning Partner for the Kresge Foundation Emerging Leaders in Public Health award received in 2015 by the Florida Department of Health in Seminole County, and received the 2015 Public Service Excellence and 2017 Alumni Achievement for Public Administration Awards from the Central Florida Chapter of the American Society for Public Administration.
SHANTANU ROY, MS  
Microbiologist, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention.

Shantanu Roy, MS is a microbiologist with the Waterborne Disease Prevention Branch in the National Center for Emerging and Zoonotic Infectious Diseases at the Centers for Disease Control and Prevention. He works with Dr. Ibne Ali at the Free-Living and Intestinal Amoeba Laboratory. Mr. Roy began his current position at CDC in August 2015. Prior to joining CDC, he did research work at the University of Chicago in infectious diseases to various types of cancer for almost a decade. He performs diagnostic and research activities for Naegleria fowleri, Balamuthia mandrillaris, Acanthamoeba spp., Entamoeba histolytica, E. dispar, E. moshkovskii, etc. Mr. Roy obtained a BS and MS, both in Biochemistry from the University of Rajshahi, Bangladesh.

KEVIN SHERIN, MD, MPH, MBA, FACPMM, FAAP  
Health Officer, Florida Department of Health in Orange County

Kevin Sherin, MD, MPH, MBA, serves as Director & Local Health Officer for the Florida Department of Health in Orange County starting May 22, 2015. He was the Deputy Director of the Center for Chronic Disease Prevention and Health Promotion for the California Department of Public Health. Dr. Sherin also served in 2013 as Interim Director of Division of Disease Control for the Florida Department of Health in Tallahassee. He is the current treasurer of the American College of Preventive Medicine (ACPM). Dr. Sherin is the immediate past chair of the ACPM Practice Committee 2012-2016. Dr. Sherin received the Gold Humanism Honor Society Award in March 2016 from Florida State University College of Medicine, where he is also a Clinical Professor of Family Medicine. He presented a Primary Amoebic Meningoencephalitis (PAM) webinar to the Seminole and Orange County Medical Societies in 2016 and authored resolutions on Naegleria to the American Medical Association and Florida Medical Association successful in 2016. He co-authored a letter to the editor of the American Family Physician on Naegleria in April 2016 with a circulation of 186,000 thousand.

DEBORAH SPIELMAN  
Assistant Administrator and Chief Operating Officer, Florida Hospital for Children

Deborah Spielman is the Assistant Administrator and Chief Operating Officer for Florida Hospital for Children. In her current role she has the operational oversight of the 200 tertiary beds, "Walt Disney Florida Hospital for Children," the children's emergency services, pediatric outpatient services and pediatric support services. Deborah has been employed by Florida Hospital for over 21 years. She began as a Physician Relations Representative in December 1995, and in less than a year was promoted to Director of Business Development & Community Relations in April, 1996. In November 2003, she took the role of Administrative Director of Behavioral Health Services where she was responsible for the administrative, financial, operational and strategic direction for the Florida Hospital system, which included 75 inpatient psychiatric beds. In April 2008, she was appointed to the position of Assistant Vice President of the Florida Hospital Neuroscience Institute, which was ranked 28th nationally by U.S. News & World Report and #1 in the Orlando Metro area under her leadership. Debbie is responsible for the overall strategic direction for the neuroscience service line across all Florida Hospital campuses. Her success has led to her current role.
ALEJANDRO JORDAN-VILLEGAS, MD  
**Pediatric Infectious Disease Specialist, Florida Hospital for Children, Orlando, Florida**

Alejandro Jordan-Villegas, MD, received his medical degree and immunology training with honors from the Universidad del Valle, Colombia, and completed his pediatric training at Children’s Hospital in Miami. He then completed a pediatric infectious diseases fellowship at the University of Texas Southwestern Medical Center in Dallas. He is currently a member of the American Academy of Pediatrics, the Pediatric Infectious Diseases Society and the Infectious Diseases Society of America. Dr. Jordan-Villegas’ clinical interests include antibiotic stewardship, the study of the host response to different viral pathogens and, more specifically, the relationship between these pathogens and bacterial superinfections. He has authored several papers and presented his research findings at international meetings. He teaches medical students and residents.

SARA KIRBY, MD  
**Assistant Medical Director for Pediatric Emergency Services at Florida Hospital for Children in Orlando**

Sara Kirby, MD, currently works as an Emergency Medicine Physician at the Florida Hospital System in Orlando, spending the majority of her clinical time in the Pediatric Emergency Centers, where she works closely with the Pediatric and Emergency Medicine Residency Programs and UCF School of Medicine. She is very involved in Research and Quality Improvement of Pediatric Emergency Medicine in the greater Orlando area. Dr. Kirby obtained a BS in Biology and her medical doctorate from the University of South Carolina. She completed residency training in Emergency Medicine at the Michigan State University hospitals in Lansing, MI where she was a Chief Resident. She then completed a fellowship in Pediatric Emergency Medicine at Arnold Palmer Hospital in Orlando. She

DENNIS KYLE, PhD, FASTMH, FAAS  
**Director, Center for Tropical & Emerging Global Diseases, University of Georgia**

Dennis E. Kyle, PhD, is a Georgia Research Alliance Eminent Scholar in Antiparasitic Drug Discovery and Professor in the Department of Cellular Biology and the Department of Infectious Diseases at the University of Georgia in Athens, GA. He majored in Biology at the University of Tennessee at Chattanooga and completed a PhD in Zoology at Clemson University. Following a postdoctoral position at the University of Georgia, he worked at the Walter Reed Army Institute of Research (WRAIR) for over 20 years. During this time he led key efforts with the US Army’s Drug and Vaccine Development Programs, eventually serving as Deputy Director of the Division of Experimental Therapeutics at WRAIR. He also served at the Armed Forces Research Institute of Medical Sciences (AFRIMS) in Bangkok, Thailand (1991-94) and was a senior scientist at the Australian Army Malaria Institute (AMI) from 2002-04. His research interests include elucidation of mechanisms of antimalarial drug resistance and discovery of new anti-parasitic drugs for diverse disease including malaria, visceral leishmaniasis, Primary Amoebic Meningoencephalitis, and amoebic keratitis. Dr. Kyle is a Fellow of the American Society for Tropical Medicine and Hygiene and the American Association for the Advancement of Science. His lab is supported by research funding from the National Institutes of Health, the Bill and Melinda Gates Foundation, Medicines for Malaria Venture, and the Georgia Research Alliance.

W. MATTHEW LINAM, MD, MS  
**Pediatric Infectious Disease Specialist, Emory University School of Medicine, Atlanta, Georgia**

Dr. Linam moved to Atlanta in 2017 and began working at Children’s Healthcare of Atlanta. He is an Associate Professor of Pediatric Infectious Diseases. Between 2009-2017, he was worked at Arkansas Children’s Hospital and served as Medical Director of Infection Prevention and Hospital Epidemiology. His passion is improving healthcare quality and safety and preventing healthcare associated infections. Born and raised in Tennessee, Dr. Linam attended the University of Tennessee where he received his Bachelor of Science degree in Biology, and later attended University of Tennessee College of Medicine where he received his MD. Dr. Linam completed his pediatric residency at the Cincinnati Children’s Hospital Medical Center in Cincinnati, Ohio. He also served as Chief Resident. He remained at Cincinnati Children’s Hospital Medical Center and completed a Pediatric Infectious Diseases Fellowship and the Quality Scholars Program in Transforming Health Care Fellowship.

HUMBERTO A. LIRIANO, MD, MA, FAAP  
**Pediatric Critical Care Specialist, Florida Hospital for Children, Orlando, Florida**

Humberto A. Liriano, MD, MA, FAAP, received his Medical Degree from St. Christopher’s College of Medicine. He completed his pediatric internship at Arnold Palmer Hospital for Children in Orlando and then completed his pediatric residency at Cohen Children’s Medical Center in New Hyde Park, NY in affiliation with Albert Einstein College of Medicine. His pediatric critical care fellowship was completed at the University of Texas Southwestern Medical Center of Dallas. He currently holds an appointment as Affiliate Assistant Professor of Pediatrics with the University of Central Florida College of Medicine. Currently, Dr. Liriano is the Chair of the Pediatric Critical Care Department at the Florida Hospital for Children. His research and clinical interest are pediatric traumatic brain injury, sepsis and cardiovascular diseases. He

FRANCINE MARCIANO-CABRAL, PHD  
**Professor and Researcher, Virginia Commonwealth University School of Medicine, Richmond, Virginia**

Dr. Mariano-Cabral is a Professor of Microbiology and Immunology specializing in working with pathogenic free-living amoebae including *Naegleria fowleri*, *Acanthamoeba* species and *Balamuthia mandrillaris*. These amoebae are the causative agents of *Ameobic Encephalitis*. *Naegleria fowleri* causes a rapidly fatal disease of the Central Nervous System (Primary Amebic Meningoencephalitis) which is acquired from fresh water lakes and ponds. Acanthamoeba can cause amoebic keratitis in addition to encephalitis. Ameobic keratitis is a painful eye infection which can lead to blindness and is more often found in contact lens wearers. She studies the disease process and using in vitro methods to understand the mechanisms of invasion of the Central Nervous System. Dr. Mariano-Cabral received her PhD from the University of Connecticut-Storrs, Storrs, CT, 1974.