

Mission: To advance public health through diverse projects in emergency care, particularly multicenter clinical research.

2017 ACEP Annual Meeting

We invite you to attend **Carlos Camargo's** presentation at the ACEP Research Forum in Washington, DC (10/29-10/31). He will present findings from our national surveys of EDs to characterize emergency care, including pediatric care, in 2015 and 2016. Specifically, he'll report on the availability of a pediatric emergency care coordinator in EDs nationwide. [Camargo CA Jr, Boggs KM, Espinola JA, Sullivan AF, Auerbach M, Hasegawa K. Pediatric Emergency Care Coordinators in US emergency departments. **Mon, 9:00am**]

We've been so busy over the past year that we never got around to sending out our newsletter last year before ACEP – or even before SAEM in May. At the 2016 ACEP annual meeting, **Dr. Camargo** received the Award for Outstanding Contribution in Research. The award is presented to an ACEP member who has made a significant contribution to research in emergency medicine. Congratulations, Carlos!

Funding News

A multi-institutional research team led by the EMNet Coordinating Center (ECC) is among the recipients of NIH grants through the Environmental influences on Child Health Outcomes (ECHO) initiative. The ECHO program will investigate how exposure to a range of environmental factors in early development – from conception through early childhood – influences the health of children and adolescents. Through the MARC-35 and MARC-43 cohorts

(more details below), the team will investigate whether the microbial population of the airway of infants affects their risk of developing asthma.

Study Updates

MARC-35: Severe Bronchiolitis Cohort

MARC-35 (also known as the WIND Study) is a NIH-funded, 17-center prospective cohort study that continues to follow >900 children to understand risk factors for the development of recurrent wheeze and asthma in infants who were previously hospitalized with bronchiolitis. Sites have completed >600 age 3-year in-person exams. Since the study began in 2011, we have completed >7,000 telephone follow-up interviews and the telephone follow-up response rate remains 85%. Through additional NIH grants, Jonathan Mansbach (Boston Children's Hospital) and Kohei Hasegawa (Massachusetts General Hospital) continue to examine the association between bronchiolitis and the risk of recurrent wheeze by examining persistent RSV and rhinovirus, and to examine whether airway cytokines or specific genetic factors in infants with rhinovirus bronchiolitis predict the risk of developing asthma later in childhood. In addition to the ECHO program grant, we recently received an additional R01 grant for the age 6-year exams and microRNA analyses. For more information, please contact Ashley Sullivan (afsullivan@partners.org).

MARC-41: The development of a novel-hospital initiated care bundle in adults hospitalized for acute asthma

Study start-up is underway for MARC-41, a Novartis-funded, prospective study of adult ED patients hospitalized with acute asthma. Five

hospitals will enroll 180 patients total, and implement an evidenced-based hospital-initiated care bundle and evaluate its effectiveness. For more information, please contact Dr. Kohei Hasegawa (khasegawa1@partners.org).

MARC-42: Comparative Effectiveness Research on Hospital Readmissions for COPD

MARC-42 is an AHRQ R01-funded study of COPD readmissions. The study will: 1) examine national trends in 30-day readmission rates after COPD hospitalization during 2006-2012, 2) develop and validate risk-adjustment models for 30-day all-cause COPD readmission, with models based on administrative claims alone (Medicare), survey-enhanced claims (MCBS), and clinically-enriched claims (NHANES-Medicare), and 3) compare the effectiveness of initiation of guideline-recommended interventions in reducing all-cause and COPD-related rehospitalizations at 30 days and 1 year. For more information, please contact Kamal Faridi, MPH (mfaridi@partners.org).

MARC-43: Airway microbiome and age 6-year asthma phenotypes in a healthy infant cohort

MARC-43 (also known as the CHIME Study) is a multicenter, prospective cohort study of healthy infants' respiratory microbiome. The cohort consists of 120 children previously enrolled at Massachusetts General Hospital as infants, as well as another 500 (and growing!) infants enrolled in 2017 at four hospitals in the U.S. We will investigate the relation of longitudinal patterns of the airway microbiome (e.g., infancy, age 3 years, and age 6 years) to the risk of childhood asthma in our severe bronchiolitis cohort (MARC-35) and in this newly expanded healthy cohort (MARC-43).

National ED Inventories (NEDI)

National ED Survey

EMNet just completed its second national survey to better understand the nature of >5300 U.S. emergency departments (EDs). We contacted all U.S. hospitals to obtain basic information about their EDs, including aspects of pediatric emergency care. The results from this national survey will be used for analyses, and to upgrade the EMNet findERnow app,

which is available for free for both iPhone and Android phones.

National Telemedicine Survey

The Emergency Medicine Foundation has funded Dr. Kori Zachrison (Massachusetts General Hospital) to lead a national survey of ED telemedicine use, which will examine how this technology is used in the emergency care setting. The ECC will coordinate this survey.

EMNet findERnow Smartphone Application

Recent app enhancements provide users with the option to view information about the adult/pediatric trauma and burn center designations, annual number of ED visits, and the availability of a separate pediatric ED and pediatric coordinator. The upgrade costs 99 cents; all revenue will go directly to the maintenance and further development of NEDI-USA, including the free version of EMNet findERnow. For more information, please see: www.emnet-usa.org/Community/finder.htm. To download the app, visit the relevant app store and search for “EMNet” or “findERnow.”

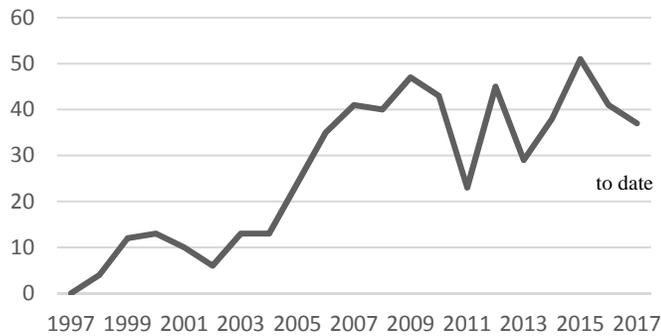
For more info on any of the projects above, please contact Ashley Sullivan (afsullivan@partners.org), EMNet Associate Director.

For a complete list of past and current EMNet studies, please visit the Studies page on the EMNet website (<http://emnet-usa.org/studies/studies.htm>).

EMNet Publications

To date, EMNet has published **565** papers (see figure). After excluding published abstracts and the large group authorship papers (e.g., committee work), the named authors of EMNet peer-reviewed manuscripts now include **750** investigators from **172** sites! Please visit www.emnet-usa.org for a complete list of EMNet publications and a list of the journals in which our manuscripts are most frequently published.

EMNet Manuscripts by Year



EMNet Coordinating Center (ECC) Staff Update

The ECC staff is growing! Over the past year, we welcomed the following people to the team:

- Vanessa Annulyse joined EMNet in February 2017 as a Program Assistant.
- Krislyn Boggs, MPH and Erin Crocker, MPH joined EMNet as Senior Clinical Research Coordinators.
- We welcomed two new year-long fellows: Cassie Crifase (Princeton University) and Nicole Herrera (Harvard University).
- Rachel Freid (Boston University grad student) joined us in January 2017 as a research assistant.
- Allergists Anna Arroyo, MD (from BWH) and Lacey Robinson, MD (from MGH) began their research fellowships at the ECC in July 2017.
- Marina Dantas, MD (Brazil) and Muhieddine Itani, MD, MBA (Lebanon/Cyprus) joined the team recently as visiting research fellows.
- Atsushi Hirayama, MD and Sarah Luthe, MD joined the ECC as research fellows, with Atsushi staying until February 2018 and Sarah staying until June 2018.

- Brandon Bedell, Monica Brova, Rain Freeman, Karishma Patel, Elizabeth Payne, and Nikki Lewis are our current EMNet interns. They are filling in where our team of eight summer interns left off.
- We said goodbye to Kathryn Entner, MBA (finance and grant administrator) who left EMNet to focus on social justice initiatives in a community-based organization.
- Kohei Hasegawa, MD, MPH (Investigator from Massachusetts General Hospital) was recently appointed as the at-large member of the EMNet Steering Committee.

EMNet Sites

The network has **245** sites, including 204 US and 41 international EDs (see map). Many more sites have participated in EMNet surveys.



For more information about EMNet, please contact:

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