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Pacific Technical Support
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Global Health PROFESSIONAL EXPERIENCE

World Health Organization. Division of Health Security & Emergencies. Pacific sub-region.

2011 - Present ***Medical officer (6/2011-10/2012) and Team Leader (from 10/2012), Emerging Disease Surveillance and Response Unit (ESR) covering the Pacific countries and territories***

Responsibilities

- Enhancing early warning surveillance and response for outbreaks and other public health emergencies in the twenty Pacific island countries and territories:
 - Directing and coordinating the Pacific Syndromic Surveillance System, an indicator and event-based early warning disease surveillance system in the Pacific
 - Investigated and/or supported > 100 outbreaks or public health emergencies since 2011
- Post-disaster risk assessment and implementation of post-disaster enhanced early-warning epidemic surveillance and response systems
- Convening and/or supporting the coordination of a variety of public health, academic and research-based institutions to prepare for and respond to disease outbreaks and other public health emergencies
- Capacity development through the coordination and implementation of field epidemiology training workshops in the Pacific islands countries
- Resource mobilization, award implementation and program management for ESR unit
- Coordinating, managing, and developing strategic direction for ESR Unit activities in the Pacific, including supervision of the ESR team
- Convening and facilitating WHO technical and policy meetings related to emerging diseases and public health emergencies in the Pacific
- Supervision of masters', doctoral and post-doctoral-level students and fellows
- Member of the WHO Global Ebola Epidemiology Team (Geneva, Sierra Leone, Liberia. 2014)

Médecins Sans Frontières

1-2/2010

Haiti

Field doctor, Port-au-Prince

- Managed high volume and high acuity traumatic injuries during the immediate post-earthquake phase.

- 7-12/2009 **Democratic Republic of the Congo**
Medical Team Leader, Haut-Uele (francophone mission)
- Supervised MSF medical and public health project activities
 - Provided clinical care for inpatient paediatric and malnutrition wards
 - Rapid humanitarian needs assessments amongst conflict-displaced populations

- 12/08-4/2009 **Chad**
Senior hospital physician, Adre (francophone mission)
- Provided clinical care and supervision of emergency department, internal medicine, & pediatrics
 - Coordinated mass supplementary measles vaccination program

- 11/07-6/2008 **Darfur, Sudan**
Medical Team Leader, multiple locations
- Opened a 100-bed hospital in the isolated Jebel Marra mountains, West Darfur
 - Conducted multiple post-displacement rapid-needs assessments immediately following conflict and mass population displacement in West Darfur
 - Provided inpatient care for pediatrics, internal medicine, minor surgery, and acute malnutrition wards
 - Supervised and coordinated all MSF project medical activities
 - MSF medical focal point in West Darfur liaising with NGOs, UN Agencies, Sudanese military, militias and opposition rebel groups

Clinical PROFESSIONAL EXPERIENCE

Rashid Trauma and Emergency Hospital, UAE

- 2010-11 **Senior Consultant Physician, Emergency Medicine**
- Provided clinical care in a large and high acuity government trauma and emergency care teaching hospital
 - Clinical supervision, didactic teaching, and evaluation of junior and senior registrars, residents and medical students
 - Coordinator of department research activities
 - Chair, Committee on ED Critical Ward

University of Iowa School of Medicine

2004-2007 **Assistant Professor of Emergency Medicine** and *Director, Wilderness Medicine Program*

2007-2010 **Visiting Associate Professor**, part time

- Supervised clinical and academic activities of medical students, residents, and fellows in the regional tertiary care university hospital

- Lecturer for training physicians
- Director, Wilderness & International Medicine Course, including 4-week elective course for medical students and resident physicians

POSTGRADUATE EDUCATION

- 2008 **Epicentre**, Paris, France
Short Course: Response to Epidemics
- 2007 **London School of Hygiene and Tropical Medicine**
Masters of Science: Tropical Medicine and International Health
- 2004 **Yale School of Medicine**
Residency: Emergency Medicine

UNDERGRADUATE EDUCATION

- 2000 **University of Wisconsin School of Medicine**, Madison
Doctor of Medicine
- 1996 **University of Wisconsin**, Madison
Bachelor of Science - History

Relevant INTERNATIONAL & VOLUNTEER EXPERIENCE

- 2-6/2010 **Nepal: *High altitude physician*** - Himalayan Rescue Association
- Provided altitude and non–altitude related medical care for sherpas, porters, trekkers, and climbers at Pheriche and Everest Base Camp Clinics
 - Member of high-altitude rescue team on Mount Everest
- 4-6/2006 **Kenya: *Research Post*** - Kenya Medical Research Institute, Kilifi
- Research activities with Katherine Maitland on fluid management, shock, and severe pediatric malaria
- 1-3/2004 **Zambia: *Staff Physician*** - Livingston General Hospital
- Provided emergency medical care at a district hospital
 - Organized and provided basic and advanced life support classes for nurses, doctors, and medical officers
- 6-8/1999 **South Africa: *Medical Student Elective*** - Jooste Emergency Hospital, Cape Flats Townships
- Participated in the delivery of care in a busy, high trauma-acuity emergency department

Selected PEER-REVIEWED PUBLICATIONS

- 2014 Bilve A, Nogareda F, Joshua C, [...] **Nilles EJ**. Establishing an early-warning disease surveillance and response system following the 2013 Solomon Islands tsunami. *Bull World Health Organ*. 2014 Nov; 92:844–848.
- 2014 WHO Ebola Response Team. Ebola Virus Disease in West Africa — The First 9 Months of the Epidemic and Forward Projections. *N Engl J Med* 2014. 2014 Oct; 371:1481-1495.
- 2014 Sharp TM, Mackay AJ, Santiago AS, Hunsperger A, **Nilles EJ**, et al. Characteristics of a Dengue Outbreak in a Remote Pacific Island Chain — Republic of the Marshall Islands, 2011-2012. *PLoS ONE*. 2014; 9(9)e 108445.
- 2014 Thompson C, Kama M, Baker S, Acharya S. [...] **Nilles EJ**, et al. Typhoid fever in Fiji: a reversible plague? *Trop Med Int Health*. July 2014.
- 2014 Musso D, **Nilles EJ**, Cao-Lormeau VM. Rapid spread of emerging Zika virus in the Pacific. *Clin Micro Infec*. June 2014.
- 2014 Scobie HM, **Nilles E**, Kama M, et al. Impact of a Targeted Typhoid Vaccination Campaign Following Cyclone Tomas, Republic of Fiji, 2010. *Am J Trop Med Hyg*. 2014 Jun 4;90(6):1031-1038.
- 2014 Cao-Lormeau VM, Roche C, Musso D [...] **Nilles EJ**, Aaskov J. Dengue virus type 3, South Pacific islands, 2013. *Emerg Infect Dis*. 2014 Jun; 20(6):1034-6.
- 2014 Chen TH, **Nilles EJ**, Souarés Y. Regional partnerships for communicable disease detection and response in the US-affiliated Pacific islands. *Clin Infect Dis*. 2014 Apr; 58(7):v-vi.
- 2014 Tabunga T, Utiera M, Tekoaua R [...] **Nilles E**, Craig A. Response to a large rotavirus outbreak on South Tarawa, Kiribati, 2013. *Western Pac Surveill Response J*. 2014 Apr 5;2: 1-6.
- 2014 Dupont-Rouzeyrol M, Aubry M, O'Connor [...] **Nilles E**, et al. Epidemiological and molecular features of dengue virus type-1 in New Caledonia, South Pacific, 2001-2013. *Virology*. 2014 Mar 31;11:61
- 2014 **Nilles EJ**, Al-Najjar F, Aloserta M, et al. Epidemiological and clinical characteristics of imported malaria in the United Arab Emirates. *J Travel Med*. 2014 May-Jun;21(3):201-6.
- 2014 Musso D, Roche C, Marfel M, Bel M, **Nilles EJ**, et al. Improvement of leptospirosis surveillance in remote Pacific islands using serum spotted on filter paper. *Int J Infect Dis*. 2014 Mar;20:74-6.
- 2013 Members of the Western Pacific Region Global Influenza Surveillance Response System. Seasonal influenza vaccine policies, recommendations and use in the World Health Organization's Western Pacific Region. *Western Pac Surveill Response J*. 2013 Mar 3;4(3):51-9.

- 2013 Nogareda F, Joshua C, Sio A, [...] **Nilles EJ**. Ongoing outbreak of dengue serotype-3 in Solomon Islands, January to May 2013. *Western Pac Surveill Response J*. 2013 Nov; 4(3).
- 2013 **Nilles EJ** (corresponding author) et al. Dengue Outbreak – Federated States of Micronesia, 2012-2013. *MMWR Morb Mortal Wkly Rep*. 2013 July; 62(28).
- 2013 Jones BE, Stokes S, McKenzie S, **Nilles E**, et al. Management of high altitude pulmonary edema in the Himalaya: a review of 56 cases presenting at Pheriche medical aid post (4240 m). *Wilderness Environ Med*. 2012 Oct; 24(1).
- 2013 Craig A, Kool J, **Nilles EJ**. The Pacific experience: supporting small island countries and territories to meet their 2012 International Health Regulations (2005) commitments. *Western Pac Surveill Response J*. 2013; 4(3).
- 2012 Sabbar S, **Nilles EJ**. Deep sulcus sign. *N Engl J Med*. 2012; 366(6).
- 2012 **Nilles EJ**, Arguin PM. Imported malaria: an update. *Am J Emerg Med*. 2012; 30(6).

Invited BOOK-CHAPTERS & OTHER PUBLICATIONS

- 2016 **Nilles EJ**. Health Care Workers in Extreme Circumstances. In: *CDC Health Information for International Travel 2016 (Yellow Book)*. New York: Oxford University Press (In press).
- 2014 Event-Based Surveillance Technical Working Group. Early detection, assessment and response to acute public health events: Implementation of Early Warning and Response with a focus on Event-Based Surveillance [Guideline]. Geneva, World Health Organization. 2014.
- 2009 **Nilles EJ**. Lymphatic Filariasis. In: *The Atlas of Pediatrics in the Tropics and Resource-limited Setting*, Spector JM, Gibson TE, eds., American Academy of Pediatrics Press. 2009.

Reviewer for JOURNALS

- Emerging Infectious Diseases
- PLoS Neglected Tropical Diseases
- Western Pacific Surveillance and Response Journal

Selected ACADEMIC & RESEARCH COLLABORATORS

- US Centers for Disease Control and Prevention
- London School of Hygiene and Tropical Medicine

- WHO Headquarters
- Institut Pasteur
- Yale School of Public Health
- Duke-National University of Singapore
- Sanger Institut

LANGUAGES

- English (native)
- French (fluent spoken, proficient reading/writing)

Selected EXTRA-CURRICULAR

1993	Trans-African bicycle expedition from The Gambia to Kenya: 6-months, 12 countries and 10,500 km to raise funds for Oxfam UK
2004	Congo River canoe expedition from Ouesso (Congo) to Kinshasa (DRC): 6-weeks & 1100 km
Multiple	6000+ meter alpine expeditions: Denali, Alaska (1997, 2000, 2002); K2 North Face, China (attempted, 2003); Huandoy Norte, Peru (2005); Ama Dablam, Nepal (2006); Lhotse (attempted, 2010)