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Organisation/Institution: World Health Organization, Office for the South Pacific

PPHSN Contact(s) (Name(s)): Jacob Kool, MD PhD MSc

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Communicable Disease Surveillance and Response

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Area(s) of expertise in relation to communicable disease surveillance & response: Epidemiology of infectious diseases, statistics, outbreak investigation, surveillance, clinical trials.

Worked on: Diarrhoeal diseases, bacterial respiratory infections, Legionnaires' disease, vector-borne diseases, bioterrorism-related diseases, rotavirus, meningococcal disease, antimicrobial resistance, malaria, hospital infections

Assistance or services you could offer to the PPHSN: Technical assistance; coordination of surveillance, notification, and investigation of outbreaks; expert advice on infectious disease epidemiology

Publications:

Last updated: March 2010

Peer-Reviewed Articles

1. Griffith K, Kool JL, Schriefer M, Yockey B, et al. Clinical trial of safety and efficacy of gentamicin for the treatment of plague. Manuscript in preparation.
2. Pavlin B, Kool J, et al. A standardized process for developing a national notifiable diseases list in a Pacific island setting. *Asia-Pacific Journal of Public Health*, 10 August 2009.
3. Narayan SA, Kool JL, Vakololoma M, et al. Outbreak of *Enterobacter aerogenes* bloodstream infection in a neonatal intensive care unit, Fiji, May 2007. *Infection Control and Hospital Epidemiology*, 2009; 30 (8): 797-800.
4. Duffy M, Chen TH, Hancock T, Powers A, Kool JL, et al. A Zika virus disease outbreak on Yap Island, Federated States of Micronesia, April— July, 2007. *The New England Journal of Medicine*, 2009; 360 (24): 2536-43.
5. McLeod MA, Baker M, Wilson N, Kelly H, Kiedrzyński T, Kool JL. Protective effect of maritime quarantine in South Pacific jurisdictions, 1918–19 influenza pandemic. *Emerging Infectious Diseases*. 2008; 14 (3): 468-70.
6. Begier EM, Asiki G, Anywaine Z, Yockey B, Schriefer ME, Aleti P, Ogen-Odoi A, Staples JE, Sexton C, Bearden SW, Kool JL. Pneumonic plague cluster, Uganda, 2004. *Emerging Infectious Diseases*, 2006; 12 (3): 460-467.
7. Guarner J, Shieh WJ, Chu M, Perlman DC, Kool J, Gage K, Ettestad P, Zaki SR. Persistent *Yersinia pestis* antigens in ischemic tissues of a patient with septicemic plague. *Human Pathology*, 2005; 36: 850– 853.
8. Kool JL. Risk of person to person transmission of pneumonic plague. *Clinical Infectious Diseases*, 2005; 40 (8): 1166-1172.



Directory of PPHSN Resources – 2010 Edition Allied Members

9. Avashia SB, Petersen JM, Lindley CM, Schriefer ME, Gage KL, Cetron M, DeMarcus TA, Kim DK, Buck J, Monteneri JA, Lowell JL, Antolin MF, Kosoy MY, Carter LG, Chu MC, Hendricks KA, Dennis DT, Kool JL. First reported prairie dog-to-human tularemia transmission, Texas, 2002. *Emerging Infectious Diseases*, 2004; 10 (3): 483-486.
10. Petersen JM, Schriefer ME, Carter LG, Zhou Y, Sealy T, Bawiec D, Yockey B, Urich S, Buck J, Lindley C, Avashia SB, Kool JL, Zeidner NS, Monteneri JA, Gage KL, Celeda L, Chu MC. Laboratory analysis of a tularemia outbreak in wild trapped, commercially traded prairie dogs: evidence for sero-positive, culture-positive animals. *Emerging Infectious Diseases*, 2004; 10 (3): 419-425.
11. Heffelfinger JD, Kool JL, Fridkin S, Fraser V, Hageman J, Carpenter J, Whitney CG, and the Society for Healthcare Epidemiology of America. Risk of hospital-acquired Legionnaires' disease in cities using monochloramine versus other water disinfectants. *Infection Control and Hospital Epidemiology*, 2003; 24 (8): 569-574.
12. Holtz TH, Ackelsberg J, Kool JL, Rosselli R, Marfin A, Matte T, et al. Isolated case of bioterrorism-related inhalational anthrax, New York City, 2001. *Emerging Infectious Diseases* 2003; 9 (6): 689-696.
13. Veldhuijzen I, Bronzwaer S, Degener J, Kool J, and EARSS participants. European Antimicrobial Resistance Surveillance System (EARSS): susceptibility testing of invasive *Staphylococcus aureus*. *Eurosurveillance*, 2000; 5: 34-6.
14. Widdowson M-A, Doornum GJJ van, Poel WHM van der, Boer AS de, Heide R van de, Mahdi U, Haanen P, Kool JL, Koopmans M. An outbreak of diarrhea in a neonatal medium care unit caused by a novel strain of rotavirus: investigation using both epidemiologic and microbiological methods. *Infection Control and Hospital Epidemiology*, 2002; 23: 665-670.
15. Aguilera J-F, Perrocheau A, Meffre C, Hahne S, and the W135 Working Group. Outbreak of serogroup W135 meningococcal disease after the Hajj pilgrimage, Europe, 2000. *Emerging Infectious Diseases* 2002; 8 (8): 761-767.
16. Bronzwaer SL, Cars O, Buchholz U, Molstad S, Goettsch W, Veldhuijzen IK, Kool JL, Sprenger MJW, Degener JE, EARSS Participants. A European study on the relationship between antibiotic use and antimicrobial resistance. *Emerging Infectious Diseases* 2002; 8(3): 278-282.
17. Buchholz U, Run G, Fielding J, Medina A, Kool JL, Mascola L. A risk-based restaurant inspection system in Los Angeles County. *Journal of Food Protection* 2002; 65(2): 367-372.
18. Boer JW den, Yzerman EPF, Schellekens J, Lettinga KD, Boshuizen H, Steenbergen J van, Bosman A, Hof S van den, Vliet H van, Peeters MF, Ketel RJ van, Speelman P, Kool JL, Conyn-Van Spaendonck MAE. A large outbreak of Legionnaires' disease at a Dutch flower show, The Netherlands, 1999. *Emerging Infectious Diseases* 2002; 8 (1): 37-43.
19. Bronzwaer SL, Buchholz U, Kool JL, Monen J, Schrijnemakers P. EARSS activities and results: update. *Eurosurveillance* 2001 Jan; 6(1):2-5.
20. Bronzwaer SL, Buchholz U, Kool JL. International surveillance of antimicrobial resistance in Europe: now we also need to monitor antibiotic use. *Eurosurveillance* 2001; 6: 1-2.
21. Kool JL, Buchholz U, Peterson C, Brown EW, Benson RF, Pruckler JM, Fields BS, Sturgeon J, Lehnkering E, Cordova R, Mascola LM, Butler JC. Strengths and limitations of molecular subtyping in a community outbreak of Legionnaires' disease. *Epidemiology and Infection* 2000; 125(3):599-608.
22. Buchholz U, Richards C, Murthy R, Arduino M, Pon D, Schwartz W, Fontanilla E, Pegues C, Boghossian N, Peterson C, Kool J, Mascola L, Jarvis WR. Pyrogenic reactions associated with single daily dosing of intravenous gentamicin. *Infection Control and Hospital Epidemiology*, 2000; 21: 771-774.
23. Kool JL, Carpenter JC, Fields BS. Monochloramine and Legionnaires' disease. *Journal of the American Water Works Association* 2000; 92 (9): 88-96.
24. Hoebe CJ, Kool JL. Control of legionella in drinking-water systems. *The Lancet* 2000; 355:2093-2094.
25. Nuorti JP, Butler JC, Gelling L, Kool JL, Reingold AL, Vugia DJ. Epidemiologic relation between HIV and invasive pneumococcal disease in San Francisco County, California. *Annals of Internal Medicine* 2000; 132: 182-90.
26. Kool JL, Bergmire-Sweet D, Brown EW, Fields BS, Benson RF, Pruckler JM, Carpenter JC, Kolczak M, Butler JC. Hospital characteristics associated with colonization of water systems by *Legionella* and risk of nosocomial Legionnaires' disease: a cohort study of 15 hospitals. *Infection Control and Hospital Epidemiology* 1999; 20: 798-805.



Directory of PPHSN Resources – 2010 Edition Allied Members

27. Kool JL, Carpenter JC, Fields BS. Effect of monochloramine disinfection of municipal drinking water on risk of nosocomial Legionnaires' disease. *The Lancet* 1999; 353: 272-77.
28. Kool JL, Fiore AE, Kioski CM, Brown EW, Benson RF, Pruckler JM, Glasby C, Butler JC, Cage GD, Carpenter JC, Mandel RM, England B, Breiman RF. More than ten years of unrecognized nosocomial transmission of Legionnaires' disease among transplant patients. *Infection Control and Hospital Epidemiology* 1998; 19: 898-904.
29. Gorkom J van, Leentvaar-Kuijpers A, Kool JL, Coutinho RA. [Annual epidemics of hepatitis A in four large cities related to holiday travel among immigrant children]. *Ned Tijdschr Geneeskd.* 1998; 142 (34): 1919-23.
30. Gómez E, Moore A, Sánchez J, Kool J, Castellanos PL, Feris J, Kolczak M, Levine OS. The epidemiology of Haemophilus influenzae type B carriage among infants and young children in Santo Domingo, Dominican Republic. *The Pediatric Infectious Disease Journal* 1998 Sep; 17(9): 782-6.
31. Kool JL, Warwick MC, Pruckler JM, Brown EW, Butler JC. Outbreak of Legionnaires' disease at a bar after basement flooding. *The Lancet* 1998; 351: 1030.
32. Leentvaar Kuijpers A, Kool JL, Veugelers PJ, Coutinho RA, van Griensven GJ. An outbreak of hepatitis A among homosexual men in Amsterdam, 1991-1993. *International Journal of Epidemiology* 1995; 24 (1): 218-222.



Directory of PPHSN Resources – 2010 Edition Allied Members

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Area(s) of expertise in relation to communicable disease surveillance & response: Epidemiology, Zoonoses, Infection Control, Laboratory, Communication
Assistance or services you could offer to the PPHSN: Technical advice, onsite assistance, statistical analysis

Publications:

1. Johnson E, Jim R, Pavlin BI. Hepatitis A in Pohnpei State, Federated States of Micronesia, 2008-2009. *Pacific Health Dialog* [in press]
2. Fred D, Desai M, Song R, Brostrom R, Pavlin BI, et al. Multi-drug Resistant Tuberculosis in Chuuk State, FSM, 2008 – 2009. *Pacific Health Dialog* [in press]
3. Yomai AA, Pavlin BI. Microphthalmia and anophthalmia in Chuuk state, FSM. *Pacific Health Dialog* [in press]
4. Jim R, Johnson E, Pavlin BI. Role of GIS Technology during Leprosy Elimination Efforts in Pohnpei. *Pacific Health Dialog* [in press]
5. Thein CC, Trinidad R, Pavlin BI. A Large Outbreak of Gastroenteritis on a Small Pacific Island. *Pacific Health Dialog* [in press]
6. Pavlin BI, Samo M, Gerstel L, Kool J. A Standardized Process for Developing a National Notifiable Diseases List in a Pacific Island Setting. *Asia Pac J Public Health*. 2009 Aug 10. [Epub ahead of print]
7. Pavlin BI, Schloegel LM, Daszak P. Risk of Importing Zoonotic Diseases through Wildlife Trade, United States. *Emerg Infect Dis* 15(11): 1721-1726 (2009).
8. Fred D, Ekiek M, Pavlin BI, et al. Two Simultaneous Outbreaks of Multidrug-Resistant Tuberculosis – Federated States of Micronesia, 2007-2009. *MMWR* 58(10): 253-256 (2009).
9. National Association of State Public Health Veterinarians. Compendium of Veterinary Standard Precautions. *JAVMA* 233(3): 415-432 (2008).
10. Amman BR / Pavlin BI (co-first authors), et al. Pet Rodents and Fatal Lymphocytic Choriomeningitis in Transplant Patients. *Emerg Infect Dis* 13(5): 719-725 (2007).
11. Sinclair JR, et al. Two Cases of Hantavirus Pulmonary Syndrome in Randolph County, West Virginia: a Coincidence of Time and Place? *Am J Trop Med Hyg* 76: 438-442 (2007).
12. Fischer, SA, et al. Transmission of Lymphocytic Choriomeningitis Virus via Organ Transplantation. *New Eng J Med* 354(21): 2235-49 (2006).
13. CDC. Interim Guidance for Minimizing Risk for Human Lymphocytic Choriomeningitis Virus Infection Associated with Rodents. *MMWR* 54(30): 747-749 (2005).
14. CDC. Lymphocytic Choriomeningitis Virus Infection in Organ Transplant Recipients – Massachusetts, Rhode Island, 2005. *MMWR* 54(21): 537-539 (2005).
15. Jacob G, Raj SR, Ketch T, Pavlin BI, Biaggioni I, Ertl AC, Robertson D. Postural Pseudoanemia: Posture-Dependent Change in Hematocrit. *Mayo Clin Proc* 80(5): 611-614 (2005).
16. Mannino DM, Holguin F, Pavlin BI, Ferdinands JM. Risk Factors for Prevalence of and Mortality Related to Restriction on Spirometry: Findings from the First National Health and Nutrition Examination Survey and Follow-up. *Int J Tuberc Lung D* 9(6): 613-621 (2005).



Directory of PPHSN Resources – 2010 Edition

Allied Members

17. CDC. Two Cases of Hantavirus Pulmonary Syndrome – Randolph County, West Virginia, July 2004. *MMWR* 53(46): 1086-9 (2004).
18. Jones TF, Pavlin BI, LaFleur BJ, Ingram LA, Schaffner, W. Restaurant Inspection Scores and Foodborne Disease. *Emerg Infect Dis* 10(4): 688-92 (2004).
19. Mannino DM, Pavlin BI, Morris JM, Redd SC. **Predictors of Restrictive Lung Disease and Diffusion Impairment in a National Data Base.** *Am J Respir Crit Care Med* 167(7):A991 (2003).
20. Witman JD, Genovese SJ, Bruno JF, McLaughlin JW, Pavlin BI. Massive Prey Recruitment and the Control of Rocky Subtidal Communities on Large Spatial Scales. *Ecol Monogr* 93(3): 441-462 (2003).
21. Lander E, *et al.* Initial Sequencing and Analysis of the Human Genome. *Nature* 409: 860-921 (2001).
22. McKernan K, *et al.* Recent Advances in High-Throughput Genomic Sequencing: Magnetic Capture of Plasmids. Abstract at *DOE Human Genome Program Contractor-Grantee Workshop VII*, Oakland CA (1999).

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Area(s) of expertise in relation to communicable disease surveillance & response: Surveillance and outbreak investigations, diarrhoeal disease, field epidemiology and training.

Assistance or services you could offer to the PPHSN: Technical advice on surveillance and outbreak investigations.

Publications: Peer-reviewed publications

Majowicz S, **Musto J**, Scallan E, Angulo F, Kirk M, O'Brien S, Jones T. The Global Burden of Non-Typhoidal Salmonellosis. *Clinical Infectious Diseases* 2010 Mar 15(6):882-9.

Spokes PJ, Marich AJ, **Musto JA**, Ward KA, Craig AT, McAnulty JM. Investigation of equine influenza transmission in NSW: walk, wind or wing? *N S W Public Health Bull.* 2009 Sep-Oct;20(9-10):152-6.

Kirk M, **Musto J**, Gregory J, Fullerton K. Obligations to report outbreaks of foodborne disease under the International Health Regulations (2005). *Emerg Infect Dis.* 2008 Sep;14(9):1440-2.

Munnoch SA, Ward K, Sheridan S, Fitzsimmons GJ, Shadbolt CT, Piispanen JP, Wang Q, Ward TJ, Worgan TLM, Oxdexnofd C, **Musto JA**, McAnulty J, Durrheim DN. A multi-state outbreak of Salmonella Saintpaul in Australia associated with rockmelon consumption. *Epidemiology and Infection* 2008; 18:1-8

Musto J, Seed C, Law M, Keller T, Kaldor J. Estimating the effect of specific donor deferral strategies on protecting the blood supply from HIV infection. *Transfusion Medicine* 2008; 18: 49-54.

Mannes T, Forssman B, Gupta L, Ferson M, Christopher S, McAnulty J, **Musto J**. Investigation of an outbreak of acute illness in a school group visiting Sydney, September 2006. *New South Wales Public Health Bulletin* 2008; 19: 20–23.

Forssman, B, Mannes, T, **Musto, J**, Gottlieb, T, Robertson, G, Natoli, J, Shadbolt, C, Biffin, B, Gupta, L. *Vibrio cholerae* cluster linked to imported whitebait in Sydney, Australia, 2006. *Medical Journal of Australia* 2007; 187(6): 345-7.



Directory of PPHSN Resources – 2010 Edition

Allied Members

Tu E, Nguyen T, Lee P, Bull R, **Musto J**, Hansman G, White P, Rawlinson W, McIver C. Multiple Australian norovirus outbreaks in 2006 predominantly due to GII4 strains. *Emerging Infectious Diseases* 2007; 13 (7):1128-30.

Musto J, Kirk M, Lightfoot D, Combs B, Mwarni L. Multi-drug resistant *Salmonella* Java infections acquired from tropical fish aquariums, Australia 2003–4. *Communicable Diseases Intelligence* 2006; 30(2):222-7.

Telfer B, Capon A, Kolbe T, Hamilton I, Burns T, Doyle B, **Musto J**, McAnulty J. A large outbreak of Norovirus gastroenteritis linked to a catering company New South Wales, October 2003. *NSW Public Health Bulletin* 2004;15(9-10) 168-171.

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