

CURRICULUM VITAE

Ruth Lynfield, M.D.

Contact Information Minnesota Department of Health
PO Box 64975
625 Robert Street North
St. Paul, MN 55164
(651)201-5422
ruth.lynfield@state.mn.us

Current Appointments

State Epidemiologist, Minnesota Department of Health (2007)

Medical Director, Minnesota Department of Health (2010)

Adjunct Professor of Medicine, University of Minnesota (2011)

Adjunct Professor of Epidemiology, University of Minnesota (2018)

Prior Appointments

2006-2011 Adjunct Associate Professor of Medicine, University of Minnesota (UMN)

2006-2017 Adjunct Assistant Professor of Epidemiology, UMN

2003-2010 Medical Director, Infectious Disease Epidemiology, Prevention and Control
Division, Minnesota Department of Health (MDH)

2000-2007 Supervisor, Emerging Infections Unit, MDH

1999-2000 Acting Supervisor, HIV and Emerging Infections Unit, MDH

December 1997- Medical Epidemiologist, MDH

November 1992- Assistant Director, New England Regional Newborn Screening Program
August 1997 Massachusetts State Laboratory and Department of Health, Boston, MA

February 1992- Attending, Pediatric Infectious Diseases
June 1997 Massachusetts General Hospital, Boston, MA

1992-1997 Instructor in Pediatrics
Harvard Medical School, Boston, MA

Education and Postdoctoral Training

1981 B.S. (Microbiology, Honors and Distinction), Cornell University, Ithaca, NY
1985 M.D., Cornell University Medical College, New York, NY
July 1985-June 1988 Internship and Residency in Pediatrics, Massachusetts General Hospital, Boston
July 1988-Jan. 1992 Fellowship Pediatric Infectious Diseases, Massachusetts General Hospital, Boston

Board Certification

1994 (re-certified 2001, 2008, 2019) Pediatric Infectious Diseases

Medical Licensure

1987-1998 Massachusetts (# 57901)
1997-present Minnesota (# 40312)

Awards

Charles C. Shepard Science Award 2004 (Prevention and Control), 2007(Prevention and Control), 2011 (Assessment and Epidemiology), 2017 (Assessment), CDC

Alexander Langmuir Prize Manuscript 2009, CDC

James H. Nakano Citation 2006, CDC

Community Partnership Award (Biostatistics) 2011, UMN

41st Annual Joseph E. Smadel Lectureship, 2017, IDSA

Champion of the Public Health Laboratory Award, 2018, Association of Public Health Laboratories

Council of State and Territorial Epidemiologists Distinguished Leader Award, 2020

Minnesota Medical Association President's Award for Distinguished Service, 2020

Federal Advisory Committees

September 2012- February 2017: National Vaccine Advisory Committee

April 2014-January 2018: Vaccine and Related Biological Products Advisory Committee, FDA

July 2014- March 2022: Board of Scientific Counselors (BSC), Office of Infectious Diseases, CDC
(*Chair* May 2018-March 2022)

Pan American Health Organization

2015-present: National Certification Committee, Polio (*Chair* 2022-)

Centers for Disease Control and Prevention Committees and Advisory Groups

Ongoing:

1999-present: Emerging Infections Program (EIP) Steering Committee (*Co-chair* 2008-present)

2000-present: Active Bacterial Core Surveillance Steering Committee

2009-present: EIP Healthcare Associated Infections-Community Interface Steering Committee

2017-present: Advanced Molecular Detection EIP Workgroup (*Co-chair*)

2018-2023: Acute Flaccid Myelitis Taskforce of the BSC (*Co-chair* 2018- March 2022)

2022-present: Laboratory Work Group for the Advisory Committee for the Director

2022-present: Advisory Committee of Immunization Practices, Adult RSV Vaccine Work Group

Antibiotic Resistance Related:

July 2002: Expert Consultants Meeting on Vancomycin-Resistant *Staphylococcus aureus*

September 2002: Experts Meeting on Community-Onset Methicillin-Resistant *Staphylococcus aureus*

July 2004: Community-Associated Methicillin Resistant *Staphylococcus aureus* Working Group

December 2007: Consultant for revision of *Public Health Action Plan to Combat Antimicrobial Resistance*

August 2008: Experts Meeting on *Staphylococcus* Colonization

September 2008: Surveillance for Multi-Drug Resistant Organisms

February 2011: CDC-SHEA meeting on Antimicrobial Stewardship (IDSA representative)

December 2011: Strategic Priorities for Combating Antimicrobial Resistant Infections

2012-2014: Antimicrobial Resistance Working Group of the Office of Infectious Diseases, CDC Board of Scientific Counselors, CDC

March, July, October 2015: Outpatient Antibiotic Prescribing: Setting a National Goal for Reducing Inappropriate Use, CDC and Pew

May 2015, May 2016: Inpatient Antibiotic Prescribing: Setting a National Goal for Reducing Inappropriate Use, CDC and Pew

December 2016: Antibiotic Stewardship in Long-Term Care Facilities, CDC and Pew

Other:

October 1998: National Workshop on Toxoplasmosis: Preventing Congenital Toxoplasmosis

October 2001, June 2009: Working Group to Re-evaluate Perinatal Group B Streptococcal Prevention Guidelines

2003: Emerging Infections Program Unexplained Death Steering Committee

February 2004: Emerging Infections Program Respiratory Disease Activity Steering Committee

July 2005, July 2013, October 2013, June 2014: Special Emphasis Panels

May 2008: Pandemic Influenza in Vulnerable Populations, Work Group Consultation

August 2010: Pandemic Impact and Severity

November 2010-December 2013: Board of Scientific Counselors, Office of Infectious Diseases, CDC (IDSA representative)

July 2011: Pandemic Severity and Community Mitigation

October 2011- April 2012: Nurse Triage Line as a Response to Pandemic Influenza (ASTHO, NACCHO and CDC)

October 2012: Rabies Program Review

May 2013: Smallpox Vaccine Draft Clinical Guidelines project, CDC, NACCHO, AAP

March 2014: Right Size Influenza Stakeholder Meeting, APHL, CSTE and CDC

2015-2019: Advisory Committee of Immunization Practices, Meningococcal Work Group

December 2016: Review of the Advanced Molecular Detection Program, CDC

November 2017: Review of Priorities for National STD laboratory, CDC

November 2017: Consultation for Update of Laboratory Guidelines for Syphilis, CDC and APHL

April 2018: Review of Influenza Surveillance, CDC

June 2018 and August 2018: Forecasting for Influenza and Dengue, CDC and CSTE

June 2022: Quantitative Tools and Data Opportunities for Pandemic Surveillance and Response Conference, Harvard University and CDC

Other HHS:

April 2013: Smallpox Vaccine Response Strategy: Science and Response Officials Tabletop Exercise, Health and Human Services, Washington, D.C.

September 2011: Developing Priorities for Public Health Genomics 2012-2017, Bethesda MD

November 2016: Assistant Secretary for Preparedness and Response Working Group on the Current Approach to Care for Infectious Diseases

NIAID Infectious Disease Clinical Research Consortium

2021- present: External Advisory Board

Infectious Disease Society of America Committees and Working Group

2007- 2012: Infectious Disease Society of America Working Group on Antibiotic Resistance (*Chair*, Nov. 2009- 2012)

2007-2013: Infectious Disease Society of America National and Global Public Health Committee (*Chair*-2010-2013)

2014-2015: Infectious Disease Society of America Ebola Coordinating/Advisory Group

2018-2020: Infectious Disease Society of America Opioid Working Group

2018-present: Infectious Disease Society of America, ID Week Program Committee (2019 meeting-present)

American Academy of Pediatrics National Committee

2015-2021: Committee on Infectious Diseases (Red Book Committee)

2015-present: Antibiotic Resistance and Stewardship Subcommittee

2017-present: Emerging Infections and Outbreaks Subcommittee

August 2018-present: Associate Editor, Red Book (Report of the AAP Committee on Infectious Diseases)

Council of State and Territorial Epidemiologists

February 2012: Council of State and Territorial Epidemiologists Consultancy- Review of National Influenza Surveillance Program, Bangladesh

2019: E-cigarette or vaping product use associated lung injury (EVALI) Task Force, co-chair

2020-present: Executive Officer (2020: President-elect, 2021: President, 2022: Vice President; 2023-present: Secretary/Treasurer)

National Foundation for Infectious Disease

2018-present: Board of Directors

2021-present: Secretary (Executive Board)

Other Committees

Antibiotic Resistance Related:

2001-2008: Minnesota Antibiotic Resistance Collaborative (*Chair*, 2002-2008)

2010-2020: Minnesota Healthcare Associated Infections Steering Committee, MDH

2012-2020: Minnesota Antimicrobial Stewardship Steering Committee, MDH
Development of Minnesota Guide to a Comprehensive Antimicrobial Stewardship Program (September 2012) and Minnesota Antimicrobial Stewardship Program Toolkit for Long-Term Care Facilities (September 2014)

2015-present: Minnesota One Health Antibiotic Stewardship Collaborative

Other:

2000-2011: Institutional Review Board, MDH

2007- 2020: Scholarship Oversight Committee for Infectious Disease Fellowship, UMN

2013- 2020: Executive Committee for T-32 Infectious Disease Fellowship, UMN

2015- 2019: State Opioid Oversight Project, MDHS, MDH

2017- 2020: Sickle Cell Disease Workgroup, MDH

Professional Societies

Infectious Disease Society of America (Fellow)

American Academy of Pediatrics (Fellow)

Council of State and Territorial Epidemiologists

American Epidemiological Society

CME Course

Co-Director Emerging Infections in Clinical Practice. University of Minnesota, Mayo Clinic and Minnesota Department of Health, Minneapolis, MN. November 2008-2023 (*ongoing*)

Scientific Meeting Chair

Infectious Disease Society of America, National Foundation in Infectious Diseases, Pediatric Infectious Disease Society, and National Vaccine Program Office. Working Group on Pertussis: The Resurgence of Pertussis and Developing Priorities for Research and Response. Bethesda, MD, March 2013

Publications in Peer Reviewed Journals

Lynfield R, Herrin JT, Rubin RH. Varicella in pediatric renal transplant recipients. *Pediatrics* 1992;90: 216-220.

Guerina NG, Hsu HW, Meissner C, Maguire JH, **Lynfield R**, Stechenberg B, Abroms I, Pasternack MS, Hoff R, Eaton RB, Grady GF, and the New England Regional Toxoplasma Advisory Committee. Neonatal serological screening and early treatment for congenital *Toxoplasma gondii* infection. *New Eng J Med* 1994;330:1858-63.

Lynfield R and Eaton RB. Teratogen Update: Congenital Toxoplasmosis. *Teratology* 1995; 52: 176-80.

Schrag S, Zell ER, **Lynfield R**, Roome A, Arnold KE, Craig A, Harrison LH, Reingold A, Stefonek K, Smith G, Gamble M, Schuchat A for the Active Bacterial Core Surveillance team. Screening more effective than risk-based approach at preventing perinatal group B streptococcal disease: A multistate cohort evaluation. *New Eng J Med* 2002;347:233-239.

McCormick AW, Whitney CG, Farley MM, **Lynfield R**, Harrison LH et al. Geographic diversity and temporal trends of antimicrobial resistance in *Streptococcus pneumoniae* in the United States. *Nat Med* 2003;9:424-30.

Whitney CG, Farley MM, Hadler J, Harrison LH, Bennet NM, **Lynfield R**, Reingold A, et al. Decline in invasive pneumococcal disease after the introduction of protein-polysaccharide conjugate vaccine. *New Eng J Med* 2003; 348:1737-46.

- Naimi TS, Anderson D, O'Boyle CO, Boxrud DJ, Johnson SK, Tenover FC, **Lynfield R**. Vancomycin-Intermediate *Staphylococcus aureus* with phenotypic susceptibility to methicillin in a patient with recurrent bacteremia. *Clin Inf Dis* 2003;36:1609-12.
- Naimi TS, LeDell KH, Borchardt S, Como-Sabetti K, Boxrud D, Johnson SK, Etienne J, Vandenesch F, Fridkin S, O'Boyle CO, Danila RN, **Lynfield R**. Community-onset and healthcare-associated methicillin-resistant *Staphylococcus aureus* in Minnesota. *JAMA* 2003;290(22):2976-84.
- Schrag S, Arnold K, Mohle-Boetani J, **Lynfield R**, Zell E, Stefonek K, Noga H, Craig A, Sanza L, Smith G, Schuchat A for the Active Bacterial Core Surveillance Team. Prenatal screening for infectious diseases and opportunities for prevention. *American College of Obstetricians and Gynecologists* 2003;102;753-60.
- Jones JL, Ogunmodede F, Scheftel J, Kirkland E, Lopez A, Schulkin J, **Lynfield R**. Toxoplasmosis-related knowledge and practices among pregnant women in the United States. *Infect Dis Obstet Gynecol* 2003;11:139-145.
- Flannery B, Schrag S, Bennett NM, **Lynfield R**, Harrison LH, Reingold A, Cieslak P, Hadler J, Farley MM, Facklam RR, Zell E, Whitney CG; Active Bacterial Core Surveillance/Emerging Infections Network. Impact of childhood vaccination on racial disparities in invasive *Streptococcus pneumoniae* infections, 1998-2002. *JAMA* 2004;291:2197-203.
- Belongia EA, Kieke B, **Lynfield R**, Davis JP, Besser RE. Demand for prophylaxis after bioterrorism-related anthrax cases, 2001. *Emerg Inf Dis* 2005;1:42-8.
- Fridkin SK, Hageman JC, Morrison M, Sanza LT, Como-Sabetti K, Jernigan JA, Harriman K, Harrison LH, **Lynfield R**, Farley MM; Active Bacterial Core Surveillance Program of the Emerging Infections Program Network. Methicillin-resistant *Staphylococcus aureus* disease in three communities. *N. Eng J Med*. 2005;352:1436-44.
- Castor ML, Wagstrom EA, Danila RN, Smith KE, Naimi TS, Besser JM, Peacock KA, Juni BA, Hunt JM, Bartkus JM, Kirkhorn SR, **Lynfield R**. An outbreak of Pontiac Fever with respiratory distress among workers performing high-pressure cleaning at a sugar-beet processing plant. *J Infect Dis*.2005;191:1530-37
- Ogunmodede F, Jones JL, Scheftel J, Kirkland E, Schulkin J, **Lynfield R**. Listeriosis prevention knowledge among pregnant women in the USA. *Infect Dis Obstet Gynecol* 2005;13:11-15.
- Rainbow J, Cebelinski E, Bartkus J, Glennen A, Boxrud D, **Lynfield R**. Rifampin resistant meningococcal disease. *Emerg Infect Dis* 2005;11:977-79.
- Kiang KM, Keike BA, Como-Sabetti K, **Lynfield R**, Besser RE, Belongia EA.. Clinician knowledge and beliefs after statewide program to promote appropriate antimicrobial drug use. *Emerg Infect Dis* 2005;11:904-11.
- Kiang KM, Ogunmodede F, Juni BA, Boxrud DJ, Glennen A, Bartkus JM, Cebelinski EA, Harriman K, Koop S, Fayetteville R, Danila R, **Lynfield R**. Outbreak of osteomyelitis/septic arthritis caused by *Kingella kingae* among childcare center attendees. *Pediatrics*. 2005 Aug;116(2):e206-13. Epub 2005 Jul 15.
- Morin CA, White K, Schuchat A, Danila RN, **Lynfield R**. Perinatal Group B streptococcal disease prevention. *Emerg Infect Dis* 2005;11:1467-1469.
- Buck JM, Como-Sabetti K, Harriman, KH, Danila RN, Boxrud DJ, Glennen A , **Lynfield R**. Community-associated methicillin-resistant *Staphylococcus aureus*, Minnesota, 2000-2003. *Emerg Infect Dis*

2005;11: 1532-1538.

Lexau, C, **Lynfield R**, Danila RN, Pilishvili T, Facklam R, Farley M, Harrison L, Schaffner W, Reingold R, Bennett, NM, Hadler J, Cieslak P, Whitney CG. Changing epidemiology of invasive pneumococcal disease among older adults in the era of pediatric pneumococcal conjugate vaccine. *JAMA*. 2005;294: 2043-51.

Flannery B, Heffernan RT, Harrison LH, Ray SM, Reingold AL, Hadler J, Schaffner W, **Lynfield R**, Thomas AR, Li J, Campsmith M, Whitney CG, Schuchat A. Changes in invasive pneumococcal disease among HIV-infected adults living in the era of childhood pneumococcal immunization. *Ann Intern Med*. 2006;144:1-9.

Kyaw M, **Lynfield R**, Schaffner W, Hadler J, Reingold A, Cieslak PR, Harrison L, Bennett NM, Farley MM., Facklam RR, Jorgensen J, Besser J, Zell ER, Schuchat A, Whitney CG. Effect of introduction of the pneumococcal conjugate vaccine on drug-resistant *Streptococcus pneumoniae*. *N Engl J Med*. 2006; 354:1455-63.

Schrag S, Shay DK, Gershman K, Thomas A, Craig AS, Schaffner W, Harrison LH, Vugia D, Clogher P, **Lynfield R**, Farley M, Zansky S, Uyeki T. Multistate surveillance for laboratory-confirmed, influenza-associated hospitalizations in children: 2003-2004. *Pediatr Infect Dis J*. 2006;25:395-400.

Jorgenson J, Crawford SA, Fulcher LC, Glennen A, Harrington SM, Swenson J, **Lynfield R**, Murray PR, Tenover FC. Multilaboratory evaluation of disk diffusion antimicrobial susceptibility testing of *Neisseria meningitidis* isolates. *J Clin Microbiol*. 2006;44:1744-54.

Greene C, Kyaw MH, Ray SM, Schaffner W, **Lynfield R**, Barrett NL, Long C, Gershman K, Pilishvili, Roberson A, Zell ER, Whitney CG, Bennett NM for the Active Bacterial Core Surveillance Program of the Emerging Infections Program Network. Preventability of invasive pneumococcal disease and assessment of current polysaccharide vaccine recommendations for adults: United States, 2001-2003. *Clinical Infect Dis*. 2006;43:141-150.

Buck JM, Lexau C, Shapiro M, Glennen A, Boxrud D, Koziol B, Whitney CG, Beall B, Danila R, **Lynfield R**. A community outbreak of conjunctivitis caused by nontypeable *Streptococcus pneumoniae* in Minnesota. *Pediatr Infect Dis J*. 2006; 2:906-11.

Como-Sabetti K, Harriman K, Juni B, Westbrook A, Cebelinski E, Boxrud D, **Lynfield R**. Methicillin resistant *Staphylococcus aureus* at canoe camp. *Emerg Infect Dis*. 2006;12:1759-61.

Whitney CG, Pilshvili T, Farley MM, Schaffner W, Craig AS, **Lynfield R**, Nyquist AC, Gershman KA, Vazquez M, Benett NM, Reingold A, Thomas A, Glode MP, Zell ER, Jorgenson JH, Beall B, Schuchat A. Effectiveness of seven-valent pneumococcal conjugate vaccine against invasive pneumococcal disease: a matched case-control study. *Lancet*. 2006;368:1495-502.

Klevens RM, Morrison MA, Fridkin SK, Reingold A, Petit S, Gershman K, Ray S, Harrison LH, **Lynfield R**, Dumyati G, Townes JMCraig AS, Fosheim G, McDougal LK, Tenover FC. Community-associated methicillin-resistant *Staphylococcus aureus* and healthcare risk factors. *Emerg Infect Dis*. 2006;12:1991-1993.

Gahr P, Harper J, Kieke B Jr, Como-Sabetti K, Christianson C, Williams D, Pederson J, **Lynfield R**. Healthcare professional surveys: judicious antibiotic use in Minnesota long-term care facilities. *J Am Geriatr Soc*. 2007; 55: 473-4.

O'Fallon E, Harper J, Shaw S, **Lynfield R**. Antibiotic and infection tracking in Minnesota long-term care

facilities. *J Am Geriatr Soc* 2007; 55: 1243-7.

Klevens RM, Morrison MA, Nadle J, Petit S, Gershman K, Ray S, Harrison LH, **Lynfield R**, Dumyati G, Townes JM, Craig AS, Zell ER, Fosheim GE, McDougal LK, Carey RB, Fridkin SK, Active Bacterial Core surveillance (ABCs) MRSA Investigators. Invasive methicillin-resistant *Staphylococcus aureus* infections in the United States. *JAMA*. 2007;298:1765-71.

Hicks LA, Harrison LH, Flannery B, Hadler JL, Schaffner W, Craig AS, Jackson D, Thomas A, Beall B, **Lynfield R**, Reingold A, Farley MM, Whitney CG. Active Bacterial Core Surveillance Program of the Emerging Infections Program Network. Incidence of Pneumococcal Disease Due to Non-Pneumococcal Conjugate Vaccine (PCV7) Serotypes in the United States during the Era of Widespread PCV7 Vaccination, 1998-2004. *J. Infect. Dis.* 2007; 196: 1346-54.

O'Loughlin RE, Roberson A, Cieslak PR, **Lynfield R**, Gershman K, Craig A, Albanese BA, Farley MM, Barrett NL, Spinal NL, Beall B, Harrison LH, Reingold A, Van Beneden C; Active Bacterial Core Surveillance Team. The epidemiology of invasive group A streptococcal infection and potential vaccine implications. United States, 2000-2004. *Clin Infect Dis.* 2007; 45: 853-62.

Thigpen MC, Richards Jr. CL, **Lynfield R**, Barrett NL, Harrison LH, Arnold KE, Reingold A, Bennett NM, Craig AS, Gershman K, Cieslak PR, Lewis P, Greene CM, Beall B, Van Beneden CA, Team ABCS. Invasive group A streptococcal infection in older adults in long-term care facilities and the community, United States, 1998-2003. *Emerg Infect Dis.* 2007;13:1852-9.

Woodbury RL, Klammer KA, Xiong Y, Bailiff T, Glennen A, Bartkus JM, **Lynfield R**, Van Beneden C, Beall BW. Plasmid-Borne erm(T) from invasive, macrolide-resistant *Streptococcus pyogenes* strains. *Antimicrob Agents Chemother.* 2008;52:1140-1143.

Harrison LH, Kreiner CJ, Shutt KA, Messonnier NE, O'Leary M, Stefonek KR, Lin H, **Lynfield R**, Barrett NL, Arnold KE, Jones TF, Montero JT for the Meningococcal High School Study Group. Risk Factors for meningococcal disease in students in grades 9-12. *Pediatr Infect Dis J.* 2008; 27: 193-199.

Rainbow J, Jewell B, Danila R, Boxrud D, Beall B, Van Beneden C, **Lynfield R**. Invasive group A streptococcal disease in nursing homes, Minnesota, 1995-2006. *Emerg Infect Dis.* 2008;14:772-777.

Crawford DC, Zimmer SM, Morin CA, Messonnier NE, **Lynfield R**, Yi Q, Shephard C, Wong M, Rieder MJ, Livingston RJ, Nickerson DA, Whitney CG, and Lingappa JR. Integrating host genomics with surveillance for invasive bacterial diseases. *Emerg Infect Dis* 2008; 14:1138-1140.

Castor ML, Whitney CG, Como-Sabetti K, Facklam RR, Ferrieri P, Bartkus JM, Juni BA, Cieslak PR, Farley MM, Dumas NB, Schrag SJ, **Lynfield R**. Antibiotic resistance patterns in invasive group B streptococcal isolates. *Infect Dis Obstet Gynecol.* 2008;16:Epub.

Jordan HT, Farley MM, Craig A, Mohle-Boetani J, Harrison LH, Petit S, **Lynfield R**, Thomas A, Zansky S, Gershman K, Albanese BA, Schaffner W, Schrag SJ. Revisiting the need for vaccine prevention of late-onset neonatal group B streptococcal disease: a multistate, population-based analysis. *Pediatr Infect Dis J.* 2008;27:1057-64.

Limbago B, Fosheim GE, Schoonover V, Crane CE, Nadle J, Petit S, Heltzel D, Ray SM, Harrison LH, **Lynfield R**, Dumyati G, Townes JM, Schaffner W, Mu Y, Fridkin SK; Active Bacterial Core surveillance MRSA Investigators. Characterization of methicillin-resistant *Staphylococcus aureus* isolates

collected in 2005 and 2006 from patients with invasive disease: a population-based analysis. *J Clin Microbiol.* 2009. 47:1344-51. Epub 2009 Mar 25.

Wu HM, Harcourt BH, Hatcher CP, Wei SC, Novak RT, Wang X, Juni BA, Glennen A, Boxrud DJ, Rainbow J, Schmink S, Mair RD, Theodore MJ, Sander MA, Miller TK, Kruger K, Cohn AC, Clark TA, Messonnier NE, Mayer LW, **Lynfield R**. Emergence of ciprofloxacin-resistant *Neisseria meningitidis* in North America. *N Engl J Med.* 2009;360:886-92.

Como-Sabetti K, Harriman KH, Buck JM, Glennen A, Boxrud DJ, **Lynfield R**. Community-associated methicillin-resistant *Staphylococcus aureus*: Trends in case and isolate characteristics from six years of prospective surveillance. *Public Health Reports.* 2009;124:427-35.

Leshner L, DeVries A, Danila R, **Lynfield R**. Evaluation of surveillance methods for staphylococcal toxic shock syndrome. *Emerg Infect Dis.* 2009;15:770-3.

Van Dyke MK, Phares CR, **Lynfield R**, Thomas AR, Arnold KE, Craig AS, Mohle-Boetani J, Gershman K, Schaffner W, Petit S, Zansky SM, Morin CA, Spina NL, Wymore K, Harrison LH, Shutt KA, Bareta J, Bulens SN, Zell ER, Schuchat A, Schrag SJ. Evaluation of universal antenatal screening for group B streptococcus. *N Engl J Med.* 2009;360:2626-36.

Skoff TH, Farley MM, Petit S, Craig AS, Schaffner W, Gershman K, Harrison LH, **Lynfield R**, Mohle-Boetani J, Zansky S, Albanese BA, Stefonek K, Zell ER, Jackson D, Thompson T, Schrag SJ. Increasing burden of invasive group B streptococcal disease in nonpregnant adults, 1990-2007. *Clin Infect Dis.* 2009;49:85-92.

Lucero CA, Hageman J, Zell ER, Bulens S, Nadle J, Petit S, Gershman K, Ray S, Harrison LH, **Lynfield R**, Dumyati G, Townes JM, Schaffner W, Fridkin SK; Active Bacterial Core surveillance MRSA Investigators. Evaluating the potential public health impact of a *Staphylococcus aureus* vaccine through use of population-based surveillance for invasive methicillin-resistant *S. aureus* disease in the United States. *Vaccine.* 2009;27:5061-8. Epub 2009 Jul 2.

Kothari NJ, Morin CA, Glennen A, Jackson D, Harper J, Schrag SJ, **Lynfield R**. Invasive Group B streptococcal disease in the elderly in Minnesota, USA, 2003-2007. *Emerg Infect Dis.* 2009;15:1279-81.

Heffelfinger JD, Patel P, Brooks JT, Calvet H, Daley CL, Dean HD, Edlin BR, Gensheimer KF, Jereb J, Kent CK, Lennox JL, Louie JK, **Lynfield R**, Peters PJ, Pinckney L, Spradling P, Voetsch AC, Fiore A. Pandemic influenza: implications for programs controlling for HIV infection, tuberculosis, and chronic viral hepatitis. *Am J Public Health.* 2009 Oct;99 Suppl 2:S333-9.

Adjemian JZ, Howell J, Holzbauer S, Harris J, Recuenco S, McQuiston J, Chester T, **Lynfield R**, DeVries A, Belay E, Sejvar J. A clustering of immune-mediated polyradiculoneuropathy among swine abattoir workers exposed to aerosolized porcine brains, Indiana, United States. *Int J Occup Environ Health.* 2009;15:331-8.

Cohn AC, MacNeil JR, Harrison LH, Hatcher C, Theodore J, Schmidt M, Pondo T, Arnold KE, Baumbach J, Bennett N, Craig AS, Farley M, Gershman K, Petit S, **Lynfield R**, Reingold A, Schaffner W, Shutt KA, Zell ER, Mayer LW, Clark T, Stephens D, Messonnier NE. Changes in *Neisseria meningitidis* disease epidemiology in the United States, 1998-2007: implications for prevention of meningococcal disease. *Clin Infect Dis.* 2010;50:184-91.

Mueller MR, Smith PJ, Baumbach JP, Palumbo JP, Meek JI, Gershman K, Vandermeer M, Thomas AR, Long CE, Belflower R, Spina NL, Martin KG, **Lynfield R**, Openo KP, Kirley PD, Pasutti LE, Barnes BG, Schaffner W, Kamimoto L. Influenza testing and antiviral prescribing practices among emergency department clinicians in 9 states during the 2006 to 2007 influenza season. *Ann Emerg Med.*2010;55:32-9.

Gertz RE Jr, Li Z, Pimenta FC, Jackson D, Juni BA, **Lynfield R**, Jorgensen JH, Carvalho Mda G, Beall BW; Active Bacterial Core Surveillance Team. Increased penicillin nonsusceptibility of nonvaccine-serotype invasive pneumococci other than serotypes 19A and 6A in post-7-valent conjugate vaccine era. *J Infect Dis.* 2010;201:770-5.

Filice GA, Nyman JA, Lexau C, Lees CH, Bockstedt LA, Como-Sabetti K Leshner LJ, **Lynfield R**. Excess Costs and Utilization Associated with Methicillin Resistance in Patients with *Staphylococcus aureus* Infection. *Infect Control Hosp Epidemiol.* 2010;31:365-73.

Holzbauer SM, DeVries AS, Sejvar JJ, Lees CH, Adjemian J, McQuiston JH, Medus C, Lexau CA, Harris JR, Recuenco SE, Belay ED, Howell JF, Buss BF, Hornig M, Gibbins JD, Brueck SE, Smith KE, Danila RN, Lipkin WI, Lachance DH, Dyck PJB, **Lynfield R**. Epidemiologic Investigation of Immune-Mediated Polyradiculoneuropathy among Abattoir Workers Exposed to Porcine Brain. 2010. *PLoS ONE* 5(3): e9782. doi:10.1371/journal.pone.0009782

Siston AM, Rasmussen SA, Honein MA, Fry AM, Seib K, Callaghan WM, Louie J, Doyle TJ, Crockett M, **Lynfield R**, Moore Z, Wiedeman C, Anand M, Tabony L, Nielsen CF, Waller K, Page S, Thompson JM, Avery C, Springs CB, Jones T, Williams JL, Newsome K, Finelli L, Jamieson DJ; Pandemic Pandemic 2009 influenza A(H1N1) virus illness among pregnant women in the United States. H1N1 Influenza in Pregnancy Working Group. *JAMA.* 2010;303:1517-25.

Pilishvili T, Zell ER, Farley MM, Schaffner W, **Lynfield R**, Nyquist AC, Vazquez M, Bennett NM, Reingold A, Thomas A, Jackson D, Schuchat A, Whitney CG. Risk factors for invasive pneumococcal disease in children in the era of conjugate vaccine use. *Pediatrics.* 126(1):e9-e17. Epub 2010 Jun 14.

Dawood FS, Fiore A, Kamimoto L, Nowell M, Reingold A, Gershman K, Meek J, Hadler J, Arnold KE, Ryan P, **Lynfield R**, Morin C, Baumbach J, Zansky S, Bennett NM, Thomas A, Schaffner W, Kirschke D, Finelli L; Emerging Infections Program (EIP) Network. Influenza-associated pneumonia in children hospitalized with laboratory-confirmed influenza, 2003-2008. *Pediatr Infect Dis J.*2010;29:585-90.

Dawood FS, Fiore A, Kamimoto L, Bramley A, Reingold A, Gershman K, Meek J, Hadler J, Arnold KE, Ryan P, **Lynfield R**, Morin C, Mueller M, Baumbach J, Zansky S, Bennett NM, Thomas A, Schaffner W, Kirschke D, Finelli L; Emerging Infections Program (EIP) Network. Burden of Seasonal Influenza Hospitalization in Children, United States, 2003 to 2008. *J Pediatr.* 2010;157:808-14.

Holzbauer SM, Kemperman MM, **Lynfield R**. Death Due to Community-Associated *Clostridium difficile* in a Woman Receiving Prolonged Antibiotic Therapy for Suspected Lyme Disease. *Clin Infect Dis.*2010; 51:369-70.

Dao CN, Kamimoto L, Nowell M, Reingold A, Gershman K, Meek J, Arnold KE, Farley M, Ryan P, **Lynfield R**, Morin C, Baumbach J, Hancock E, Zansky S, Bennett NM, Thomas A, Vandermeer M, Kirschke DL, Schaffner W, Finelli L; Emerging Infections Program Network. Adult hospitalizations for laboratory-positive influenza during the 2005-2006 through 2007-2008 seasons in the United States. *J Infect Dis.* 2010;202:881-8.

Cohen AL, Harrison LH, Farley MM, Reingold AL, Hadler J, Schaffner W, **Lynfield R**, Thomas AR, Campsmith M, Li J, Schuchat A, Moore MR; Active Bacterial Core Surveillance Team. Prevention of invasive pneumococcal disease among HIV-infected adults in the era of childhood pneumococcal immunization. *AIDS*. 2010;24:2253-62.

Burton DC, Flannery B, Bennett NM, Farley MM, Gershman K, Harrison LH, **Lynfield R**, Petit S, Reingold AL, Schaffner W, Thomas A, Plikaytis BD, Rose CE Jr, Whitney CG, Schuchat A; Active Bacterial Core Surveillance/Emerging Infections Program Network. Socioeconomic and racial/ethnic disparities in the incidence of bacteremic pneumonia among US adults. *Am J Public Health*. 2010;100:1904-11.

Kallen AJ, Mu Y, Bulens S, Reingold A, Petit S, Gershman K, Ray SM, Harrison LH, **Lynfield R**, Dumyati G, Townes JM, Schaffner W, Patel PR, Fridkin SK; Active Bacterial Core surveillance (ABCs) MRSA Investigators of the Emerging Infections Program. Healthcare associated MRSA infections: 2005-2008. *JAMA*. 2010;304:641-9.

Nolte KB, Fischer M, Reagan S, **Lynfield R**; Members of the National Association of Medical Examiners (NAME) Ad Hoc Committee for Bioterrorism and Infectious Diseases. Guidelines to implement medical examiner/coroner-based surveillance for fatal infectious diseases and bioterrorism ("Med-X"). *Am J Forensic Med Pathol*. 2010;31:308-12.

Como-Sabeti KJ, Harriman KH, Fridkin SK, Jawahir SL, **Lynfield R**. Risk factors for community-associated *Staphylococcus aureus* infections: results from parallel studies including methicillin-resistant and methicillin-sensitive *S. aureus* compared to uninfected controls. *Epidemiol Infect*. 2011;139:419-29.

Nyman JA, Lees CH, Bockstedt LA, Filice GA, Lexau C, Leshner LJ, Como-Sabeti K, **Lynfield R**. Cost of screening intensive care unit patients for methicillin-resistant *Staphylococcus aureus* in hospitals. *Am J Infect Control*. 2011;39:27-34.

Satola SW, Lessa FC, Ray SM, Bulens SN, **Lynfield R**, Schaffner W, Dumyati G, Nadle J, Patel JB; for the Active Bacterial Core surveillance (ABCs) MRSA Investigators. Clinical and Laboratory Characteristics of invasive infections due to methicillin-resistant *Staphylococcus aureus* isolates demonstrating a vancomycin MIC of 2 micrograms per milliliter: lack of effect of heteroresistant vancomycin-intermediate *S. aureus* phenotype. *J Clin Microbiol*. 2011;49: 1583-1587.

Fowlkes AL, Arguin P, Biggerstaff MS, Gindler J, Blau D, Jain S, Dhara R, McLaughlin J, Turnipseed E, Meyer JJ, Louie JK, Siniscalchi A, Hamilton JJ, Reeves A, Park SY, Richter D, Ritchey MD, Cocoros NM, Blythe D, Peters S, **Lynfield R**, Peterson L, Anderson J, Moore Z, Williams R, McHugh L, Cruz C, Waters CL, Page SL, McDonald CK, Vandermeer M, Waller K, Bandy U, Jones TF, Bullion L, Vernon V, Lofy KH, Haupt T, Finelli L. Epidemiology of 2009 pandemic influenza A (H1N1) deaths in the United States, April-July 2009 *Clin Infect Dis*. 2011;52Suppl 1:S60-8.

Duffy J, Sievert D, Rebmann C, Kainer M, **Lynfield R**, Smith P, Fridkin S. Effective state-based surveillance for multidrug-resistant organisms related to health care-associated infections. *Public Health Rep*. 2011;126:176-85.

Creanga AA, Kamimoto L, Newsome K, D'Mello T, Jamieson DJ, Zotti ME, Arnold KE, Baumbach J, Bennett NM, Farley MM, Gershman K, Kirschke D, **Lynfield R**, Meek J, Morin C, Reingold A, Ryan P, Schaffner W, Thomas A, Zansky S, Finelli L, Honein MA. Seasonal and 2009 pandemic Influenza A

(H1N1) virus infection during pregnancy: a population-based study of hospitalized cases. *Am J Obstet Gynecol.* 2011;204:S38-45.

Thigpen MC, Whitney CG, Messonnier NE, Zell ER, **Lynfield R**, Hadler JL, Harrison LH, Farley MM, Reingold A, Bennett NM, Craig AS, Schaffner W, Thomas A, Lewis MM, Scallan E, Schuchat A; Emerging Infections Programs Network. Bacterial meningitis in the United States, 1998-2007. *N Engl J Med.* 2011;364:2016-25.

Nerby JM, Gorwitz R, Leshner L, Juni B, Jawahir S, **Lynfield R**, Harriman K. Risk factors for household transmission of community-associated methicillin-resistant *Staphylococcus aureus*. *Ped Infect Dis J.* 2011;30:927-32.

Dawood FS, Kamimoto L, D'Mello TA, Reingold A, Gershman K, Meek J, Arnold KE, Farley M, Ryan P, **Lynfield R**, Morin C, Baumbach J, Zansky S, Bennett N, Thomas A, Schaffner W, Kirschke D, Finelli L; the Emerging Infections Program Network. Children with asthma hospitalized with seasonal or pandemic influenza: 2003-2009. *Pediatrics.* 2011;128(1)e27-32.

Weston EJ, Pondo T, Lewis MM, Martell-Cleary P, Morin C, Jewell B, Daily P, Apostol M, Petit S, Farley M, **Lynfield R**, Reingold A, Hansen NI, Stoll BJ, Shane AL, Zell E, Schrag SJ. The burden of invasive early-onset neonatal sepsis in the United States, 2005-2008. *Ped Infect Dis J.* 2011;30:937-41.

DeVries AS, Harper J, Murray A, Lexau C, Bahta L, Christensen J, Cebelinski E, Fuller S, Kline S, Wallace GS, Shaw JH, Burns CC, **Lynfield R**. Vaccine-derived poliomyelitis 12 years after infection in Minnesota *N Engl J Med.* 2011;364:2316-23.

Sweet K, Sutherland W, Ehresmann K, **Lynfield R**. Hepatitis A infection in recent international adoptees and their contacts in Minnesota, 2007-2009. *Pediatrics.* 2011;117:1479-83

Devries AS, Leshner L, Schlievert PM, Rogers T, Villaume LG, Danila R, **Lynfield R**. Staphylococcal toxic shock syndrome 2000-2006: epidemiology, clinical features, and molecular characteristics. *PLoS One.* 2011;6(8):e22997. Epub 2011 Aug 10.

Lingappa JR, Dumitrescu L, Zimmer SM, **Lynfield R**, McNicholl JM, Messonnier NE, Whitney CG, Crawford DC. Identifying host genetic risk factors in the context of public health surveillance for invasive pneumococcal disease. *PLoS One.* 2011;6(8):e23413. Epub 2011 Aug 15.

Lees CH, Avery C, Asherin R, Rainbow J, Danila R, Smelser C, Schmitz A, Ladd-Wilson S, Nolte KB, Nagle K, **Lynfield R**. Pandemic (H1N1) 2009-associated deaths detected by unexplained death and medical examiner surveillance. *Emerg Infect Dis.* 2011;17:1479-83.

Lowther SA, Miramontes R, Navara B, Sabuwala N, Brueshaber M, Solarz S, Haddad MB, Sodt D, **Lynfield R**. Outbreak of tuberculosis among Guatemalan immigrants in rural Minnesota, 2008. *Public Health Rep.* 2011;126:726-32.

Doshi S, Kamimoto L, Finelli L, Perez A, Reingold A, Gershman K, Yousey-Hindes K, Arnold K, Ryan P, **Lynfield R**, Morin C, Baumbach J, Hancock EB, Bennett NM, Zansky S, Thomas A, Schaffner W, Fry AM. Description of antiviral treatment among adults hospitalized with influenza before and during the 2009 pandemic: United States, 2005-2009. *J Infect Dis.* 2011;204:1848-56.

MacNeil JR, Cohn AC, Farley M, Mair R, Baumbach J, Bennett N, Gershman K, Harrison LH, **Lynfield R**, Petit S, Reingold A, Schaffner W, Thomas A, Coronado F, Zell ER, Mayer LW, Clark TA, Messonnier NE. Current epidemiology and trends in invasive *Haemophilus influenzae* disease- United States, 2005-2009. *J Infect Dis.* 2011;204:1848-56.

- Lowther SA, Shinoda N, Juni BA, Theodore MJ, Wang X, Jawahir SL, Jackson ML, Cohn A, Danila R, **Lynfield R**; the Hib Survey Team. *Haemophilus influenzae* type b infection, vaccination, and *H. influenzae* carriage in children in Minnesota, 2008-2009. *Epidemiol Infect.* 2012;140:566-74.
- Hampton LM, Farley MM, Schaffner W, Thomas A, Reingold A, Harrison LH, **Lynfield R**, Bennett NM, Petit S, Gershman K, Baumbach J, Beall B, Jorgensen J, Glennen A, Zell ER, Moore M. Prevention of antibiotic-nonsusceptible *Streptococcus pneumoniae* with conjugate vaccines. *J Infect Dis.* 2012;205:401-11.
- Vandermeer ML, Thomas AR, Kamimoto L, Reingold A, Gershman K, Meek J, Farley MM, Ryan P, **Lynfield R**, Baumbach J, Schaffner W, Bennett N, Zansky S. Association between use of statins and mortality among patients hospitalized with laboratory-confirmed influenza virus infections: a multistate study. *J Infect Dis.* 2012;205:13-19.
- Kemble SK, **Lynfield R**, Devries AS, Drehner DM, Pomputius WF 3rd, Beach MJ, Visvesvara GS, da Silva AJ, Hill VR, Yoder JS, Xiao L, Smith KE, Danila R. Fatal *Naegleria fowleri* infection acquired in Minnesota: possible expanded range of a deadly thermophilic organism. *Clin Infect Dis.* 2012;54:805-9
- DeVries A, Wotton J, Lees C, Boxrud D, Uyeki T, **Lynfield R**. Neuraminidase H275Y and hemagglutinin D222G mutations in a fatal case of 2009 pandemic influenza A (H1N1) virus infection. *Influenza Other Respi Viruses.* 2012 Jan 14. doi: 10.1111/j.1750-2659.2011.00329.x. [Epub ahead of print]
- Theodore MJ, Anderson RD, Wang X, Katz LS, Vuong JT, Bell ME, Juni BA, Lowther SA, **Lynfield R**, Macneil JR, Mayer LW. Evaluation of new biomarker genes for differentiating *Haemophilus influenzae* from *Haemophilus haemolyticus*. *J Clin Microbiol.* 2012;50:1422-4.
- Luckhaupt SE, Sweeney MH, Funk R, Calvert GM, Nowell M, D'Mello T, Reingold A, Meek J, Yousey-Hindes K, Arnold KE, Ryan P, **Lynfield R**, Morin C, Baumbach J, Zansky S, Bennett NM, Thomas A, Schaffner W, Jones T. Influenza-associated hospitalizations by industry, 2009-10 influenza season, United States. *Emerg Infect Dis.* 2012;18:556-62.
- De Serres G, Pilishvili T, Link-Gelles R, Reingold A, Gershman K, Petit S, Farley MM, Harrison LH, **Lynfield R**, Bennett NM, Baumbach J, Thomas A, Schaffner W, Beall B, Whitney C, Moore M. Use of surveillance data to estimate the effectiveness of the 7-valent conjugate pneumococcal vaccine in children less than 5 years of age over a 9 year period. *Vaccine.* 2012;30:4067-72.
- Garg S, Chaves SS, Pérez A, D'Mello T, Gershman K, Meek J, Yousey-Hindes K, Arnold KE, Farley MM, Tengelsen L, Ryan P, Sharangpani R, **Lynfield R**, Morin C, Baumbach J, Hancock EB, Zansky S, Bennett NM, Fowler B, Bradley K, Thomas A, Cooper T, Schaffner W, Boulton R, Finelli L, Fry AM. Reduced influenza antiviral treatment among children and adults hospitalized with laboratory-confirmed influenza infection in the year after the 2009 pandemic. *Clin Infect Dis.* 2012 Aug;55(3):e18-21.
- Livorsi DJ, Macneil JR, Cohn AC, Bareta J, Zansky S, Petit S, Gershman K, Harrison LH, **Lynfield R**, Reingold A, Schaffner W, Thomas A, Farley MM. Invasive *Haemophilus influenzae* in the United States, 1999-2008: epidemiology and outcomes. *J Infect.* 2012;65:496-504.
- Spaulding AB, Radi D, Macleod H, **Lynfield R**, Larson M, Hyduke T, Dehnel P, Acomb C, DeVries AS. Design and implementation of a statewide influenza nurse triage line in response to pandemic H1N1 influenza. *Public Health Rep.* 2012;127(5):532-40.
- Cox CM, D'Mello T, Perez A, Reingold A, Gershman K, Yousey-Hindes K, Arnold KE, Farley MM, Ryan P, **Lynfield R**, Morin C, Baumbach J, Hancock EB, Zansky S, Bennett NM, Thomas A, Schaffner W, Finelli L; Emerging Infections Programs Network. Increase in rates of hospitalization due to

laboratory-confirmed influenza among children and adults during the 2009-10 influenza pandemic. *J Infect Dis.* 2012;206:1350-8.

Kamimoto L, Euler GL, Lu PJ, Reingold A, Hadler J, Gershman K, Farley M, Terebuh P, Ryan P, **Lynfield R**, Albanese B, Thomas A, Craig AS, Schaffner W, Finelli L, Bresee J, Singleton JA. Seasonal influenza morbidity estimates obtained from telephone surveys, 2007. *Am J Public Health.* 2012 Dec 13.

David MZ, Taylor A, **Lynfield R**, Boxrud DJ, Short G, Zychowski D, Boyle-Vavra S, Daum RS. Comparing pulsed-field gel electrophoresis with multilocus sequence typing, spa typing, staphylococcal cassette chromosome mec (SCCmec) typing, and PCR for Panton-Valentine Leukocidin, *arcA*, and *opp3* in methicillin-resistant *Staphylococcus aureus* isolates at a U.S. medical center. *J Clin Microbiol.* 2013;51(3):814-9.

Fleming-Dutra KE, Taylor T, Link-Gelles R, Garg S, Jhung MA, Finelli L, Jain S, Shay D, Chaves SS, Baumbach J, Hancock EB, Beall B, Bennett N, Zansky S, Petit S, Yousey-Hindes K, Farley MM, Gershman K, Harrison LH, Ryan P, Lexau C, **Lynfield R**, Reingold A, Schaffner W, Thomas A, Moore MR. Effect of the 2009 Influenza A (H1N1) Pandemic on invasive pneumococcal pneumonia. *J Infect Dis.* 2013;207:1135-43..

Spaulding AB, Radi D, Macleod H, **Lynfield R**, Larson M, Hyde T, Dehnel P, DeVries AS. Satisfaction and public health cost of a statewide influenza nurse triage line in response to pandemic H1N1 influenza. *PLoS One.* 2013;8(1):e50492. Epub 2013 Jan 15.

Davey RT Jr, **Lynfield R**, Dwyer DE, Losso MH, Cozzi-Lepri A, Wentworth D, Lane HC, Dewar R, Rupert A, Metcalf JA, Pett SL, Uyeki TM, Bruguera JM, Angus B, Cummins N, Lundgren J, Neaton JD; INSIGHT FLU 002 & 003 Study Groups. The association between serum biomarkers and disease outcome in Influenza A (H1N1)pdm09 virus infection. *PLoS One.* 2013; 8(2):e57121. Epub 2013 Feb 27.

Ferrieri P, **Lynfield R**, Creti R, Flores AE. Serotype IV and invasive group B Streptococcus Disease in neonates, Minnesota USA, 2000-2010. *Emerg Infect Dis.* 2013; 19: 551-558.

Kaiser RM, Castanheira M, Jones RN, Tenover F, **Lynfield R**. Trends in *Klebsiella pneumoniae* carbapenemase-positive *K. pneumoniae* in US hospitals; report from the 2007-2009 SENTRY antimicrobial surveillance program. *Diagn Microbiol Infect Dis.* 2013; 76:356-60.

Saira K, Lin X, Depasse JV, Halpin R, Twaddle A, Stockwell T, Angus B, Cozzi-Lepri A, Delfino M, Dugan V, Dwyer DE, Freiberg M, Horban A, Losso M, **Lynfield R**, Wentworth DN, Holmes EC, Davey R, Wentworth DE, Ghedin E; INSIGHT FLU002 and FLU003 Study Groups. Sequence analysis of in vivo defective interfering-like RNA of influenza A H1N1 pandemic virus. *J Virol.* 2013; 87:8064-74.

Link-Gelles R, Thomas A, **Lynfield R**, Petit S, Schaffner W, Harrison L, Farley MM, Aragon D, Nicols M, Kirley PD, Zansky S, Jorgensen J, Juni BA, Jackson D, Moore M, Lipsitch M. Geographic and temporal trends in antimicrobial nonsusceptibility in *Streptococcus pneumoniae* in the post-vaccine era in the United States. *J Infect Dis.* 2013;208:1266-73.

Chaves SS, Aragon D, Bennett N, Cooper T, D'Mello T, Farley M, Fowler B, Hancock E, Kirley PD, **Lynfield R**, Ryan P, Schaffner W, Sharangpani R, Tengelsen L, Thomas A, Thurston D, Williams J, Yousey-Hindes K, Zansky S, Finelli L. Patients hospitalized with laboratory-confirmed influenza during the 2010-2011 influenza season: exploring disease severity by virus type and subtype. *J Infect Dis.* 2013; 208:1305-14.

Kemble SK, Westbrook A, **Lynfield R**, Bogard A, Koktavy N, Gall K, Lappi V, Devries AS, Kaplan E, Smith KE. Foodborne outbreak of group A streptococcus pharyngitis associated with a high school dance team banquet- Minnesota, 2012. *Clin Infect Dis.* 2013; 57: 648-54.

Nguyen DB, Lessa FC, Belflower R, Mu Y, Wise M, Nadle J, Bamberg WM, Petit S, Ray SM, Harrison LH, **Lynfield R**, Dumyati G, Thompson J, Schaffner W, Patel PR; for the Active Bacterial Core Surveillance (ABCs) MRSA Investigators of the Emerging Infections Program. Invasive methicillin-resistant *Staphylococcus aureus* infections among patients on chronic dialysis in the United States, 2005-2011. *Clin Infect Dis*. 2013;57:1393-400.

Dantes R, Mu Y, Belflower R, Aragon D, Dumyati, G, Harrison LH, Lessa FC, **Lynfield R**, Nadle J, Petit S, Ray SM, Schaffner W, Townes J, Fridkin S. for the Emerging Infections Program-Active Bacterial Core Surveillance MRSA Surveillance Investigators. National burden of invasive methicillin-resistant *Staphylococcal* infections, United States, 2011. *JAMA Intern Med*. 2013;173:1970-8.

Thompson MG, Sokolow LZ, Almendares O, Openo K, Farley MM, Meek J, Ray J, Kirley PD, Reingold A, Aragon D, Hancock E, Baumbach J, Schaffner W, **Lynfield R**, Ryan P, Monroe M, Cheng PY, Fry AM, Shay DK. Effectiveness of nonadjuvanted monovalent influenza A(H1N1)pdm09 vaccines for preventing reverse transcription polymerase chain reaction-confirmed pandemic influenza hospitalizations: case-control study of children and adults at 10 US influenza surveillance network sites. *Clin Infect Dis*. 2014;58:449-57.

Dawood FS, Chaves SS, Pérez A, Reingold A, Meek J, Farley MM, Ryan P, **Lynfield R**, Morin C, Baumbach J, Bennett NM, Zansky S, Thomas A, Lindegren ML, Schaffner W, Finelli L; for the Emerging Infections Program Network. Complications and associated bacterial co-infections among children hospitalized with seasonal or pandemic influenza, United States, 2003-2010. *J Infect Dis*. 2014;209:686-94.

Iwamoto M, Mu Y, **Lynfield R**, Bulens SN, Nadle J, Aragon D, Petit S, Ray SM, Harrison LH, Dumyati G, Townes JM, Schaffner W, Gorwitz RJ, Lessa FC. Trends in invasive methicillin-resistant *Staphylococcus aureus* infection. *Pediatrics*. 2013. 132: e817-24.

Jhung MA, Epperson S, Biggerstaff M, Allen D, Balish A, Barnes N, Beaudoin A, Berman L, Bidol S, Blanton L, Blythe D, Brammer L, D'Mello T, Dnaila R, Davis W, de Fijter S, Diorio M, Durand LO, Emery S, Fowler B, Garten R, Grant Y, Greenbaum A, Gubareva L, Havers F, Haupt T, House J, Ibrahim S, Jaing V, Jain S, Jernigan D, Kazmierczak J, Kimov A, Lindstrom S, Logenberger A, Lucas P, **Lynfield R**, McMorro M, Moll M, Morin C, Ostroff S, Page SL, Park SY, Peters S, Quinn C, Reed C, Richards S, Scheftel J, Simwale O, Shu B, Soyemi K, Stauffer J, Steffens C, SuS, Torso L, Uyeki TM, Vetter S, Villanueva J, Wong KK, Shaw M, Bresee JS, Cox N, Finelli L. Outbreak of variant influenza A(H3N2) virus in the United States. *Clin Infect Dis*. 2013; 57: 1703-12

Jhung MA, D'Mello T, Pérez A, Aragon D, Bennett NM, Cooper T, Farley MM, Fowler B, Grube SM, Hancock EB, **Lynfield R**, Morin C, Reingold A, Ryan P, Schaffner W, Sharangpani R, Tengelsen L, Thomas A, Thurston D, Yousey-Hindes K, Zansky S, Finelli L, Chaves SS. Hospital-onset influenza hospitalizations: United States 2010-2011. *Am J Infect Conrol*. 2014; 42: 7-11.

Greenbaum A, Chaves SS, Perez A, Aragon D, Bandyopadhyay A, Bennett N, Fowler B, Hancock E, **Lynfield R**, McDonald-Hamm C, Reingold A, Ryan P, Schaffner W, Sharangpani R, Spencer M, Thomas A, Yousey-Hindes K, Zansky S, Finelli L. Heavy alcohol use as a risk factor for severe outcomes among adults hospitalized with laboratory-confirmed influenza, 2005-2011. *Infection*. 2014; 42:165-70.

Wiringa AE, Shutt KA, Marsh JW, Cohn AC, Messonnier NE, Zansky SM, Petit S, Farley MM, Gershman K, **Lynfield R**, Reingold A, Schaffner W, Thompson J, Brown ST, Lee BY, Harrison LH. Geotemporal analysis of *Neisseria meningitidis* clones in the United States: 2000-2005. *PLoS One*. 2013 Dec 12;8(12):e82048

Griffith J, Blaney D, Shadomy S, Lehman M, Pesik N, Tostenson S, Delaney L, Tiller R, DeVries A, Gomez T, Sullivan M, Blackmore C, Stanek D, **Lynfield R**; Anthrax Investigation Team. Investigation of inhalation anthrax, United States. *Emerg Infect Dis*. 2014;20:280-3.

Chaves SS, Perez A, Farley MM, Miller L, Schaffner W, Lindegren ML, Sharangpani R, Meek J, Yousey-Hindes K, Thomas A, Boulton R, Baumbach J, Hancock EB, Bandyopadhyay AS, **Lynfield R**, Morin C, Zansky SM, Reingold A, Bennett NM, Ryan P, Fowler B, Fry A, Finelli L; for the Influenza Hospitalization Surveillance Network. The burden of influenza hospitalizations in infants from 2003-2012, United States. *Pediatr Infect Dis J*. 2014; 33:912-9.

Wortham JM, Zell E, Pondo T, Harrison L, Schaffner W, **Lynfield R**, Thomas A, Reingold A, Bennett N, Petit S, Aragon D, Bareta J, Juni B, Farley M, Beall B, Moore M. Racial disparities in invasive *Streptococcus pneumoniae* infections, 1998-2009. *Clin Infect Dis*. 2014; 58:1250-7

Pereira EC, Shaw KM, Snippes Vagnone PM, Harper JE, Kallen AJ, Limbago BM, **Lynfield R**. Thirty-day laboratory-based surveillance for carbapenem-resistant Enterobacteriaceae in the Minneapolis-St. Paul metropolitan area. *Infect Control Hosp Epidemiol*. 2014;35:423-5.

Shaw KM, Harper JE, Vagnone PS, **Lynfield R**. Establishing surveillance for carbapenem-resistant Enterobacteriaceae in Minnesota, 2012. *Infect Control Hosp Epidemiol*. 2014;35:451-3.

Dharan NJ, Sokolow LZ, Cheng PY, Gargiullo P, Gershman K, **Lynfield R**, Morin C, Thomas A, Meek J, Farley MM, Arnold KE, Reingold A, Craig AS, Schaffner W, Bennett NM, Zansky S, Baumbach J, Lathrop S, Kamimoto L, Shay DK. Child, Household, and Caregiver Characteristics Associated with Hospitalization for Influenza among Children 6-59 Months of Age: An Emerging Infections Program Study. *Pediatr Infect Dis J*. 2014;33(6):e141-50.

Magill SS, Edwards JR, Bamberg W, Beldavs ZG, Dumyati G, Kainer MA, **Lynfield R**, Maloney M, McAllister-Hollod L, Nadle J, Ray SM, Thompson DL, Wilson LE, Fridkin SK; Emerging Infections Program Healthcare-Associated Infections and Antimicrobial Use Prevalence Survey Team. Multistate point prevalence study of healthcare-associated infections. *New Engl J Med*. 2014; 370:1198-208.

Dugan S, Roesler J, Westbrook A, Bilden E, Anderson D, Van Deelen N, Wolff S, Kinde M, **Lynfield R**. The high cost of bath salts: a study of the health care burden of illicit synthetic drug use in Duluth, Minnesota. *Minn Med*. 2014; 97: 32-7.

Su S, Chaves SS, Perez A, D'Mello T, Kirley PD, Yousey-Hindes K, Farley MM, Harris M, Sharangpani R, **Lynfield R**, Morin C, Hancock EB, Zansky S, Hollick GE, Fowler B, McDonald-Hamm C, Thomas A, Horan V, Lindegren ML, Schaffner W, Price A, Bandyopadhyay A, Fry AM. Comparing Clinical Characteristics Between Hospitalized Adults with Laboratory-Confirmed Influenza A and B Virus Infection. *Clin Infect Dis*. 2014;59:252-5.

Reed C, Chaves SS, Perez A, D'Mello T, Daily Kirley P, Aragon D, Meek JI, Farley MM, Ryan P, **Lynfield R**, Morin CA, Hancock EB, Bennett NM, Zansky SM, Thomas A, Lindegren ML, Schaffner W, Finelli L. Complications Among Adults Hospitalized With Influenza: A Comparison of Seasonal Influenza and the 2009 H1N1 Pandemic. *Clin Infect Dis*. 2014;59:166-74.

Verani JR, Spina NL, **Lynfield R**, Schaffner W, Harrison LH, Holst A, Thomas S, Garcia JM, Scherzinger K, Aragon D, Petit S, Thompson J, Pasutti L, Carey R, McGee L, Weston E, Schrag SJ. Early-onset group B streptococcal disease in the United States: potential for further reduction. *Obstet Gynecol*. 2014;123:828-37.

Gahr P, DeVries AS, Wallace G, Miller C, Kenyon C, Sweet K, Martin K, White K, Bagstad E, Hooker C, Krawczynski G, Boxrud D, Liu G, Stinchfield P, LeBlanc J, Hickman C, Bahta L, Barskey A, **Lynfield R**. An Outbreak of Measles in an Undervaccinated Community. *Pediatrics*. 2014(1):e220-8.

Lynfield R, Davey R, Dwyer DE, Losso MH, Wentworth D, Cozzi-Lepri A, Herman-Lamin K, Cholewinska G, David D, Kuetter S, Ternesgen Z, Uyeki TM, Lane HC, Lundgren J, Neaton JD;

INSIGHT Influenza Study Group. Outcomes of Influenza A(H1N1)pdm09 Virus Infection: Results from Two International Cohort Studies PLoS One. 2014; Jul 8;9(7):e101785

Olsen RJ, Fittipaldi N, Kachroo P, Sanson MA, Long SW, Como-Sabeti KJ, Valson C, Cantu C, **Lynfield R**, Van Beneden C, Beres SB, Musser JM. Clinical response to a mock outbreak of invasive bacterial infections: a preparedness study. J Clin Microbiol. 2014;52:4210-6.

Choi MJ, Morin CA, Scheftel J, Vetter SM, Smith K, **Lynfield R** and The Variant Influenza Investigation Team. Variant influenza associated with live animal markets, Minnesota. Zoonoses Public Health. 2015; 62:326-30.

Magill SS, Edwards JR, Beldavs ZG, Dumyati G, Janelle SJ, Kainer MA, **Lynfield R**, Nadle J, Neuhauser MM, Ray SM, Richards K, Rodriguez R, Thompson DL, Fridkin SK; Emerging Infections Program Healthcare-Associated Infections and Antimicrobial Use Prevalence Survey Team. Prevalence of antimicrobial use in US acute care hospitals, May-September 2011. JAMA. 2014; 312:1438-46.

MacNeil JR, Bennett N, Farley MM, Harrison LH, **Lynfield R**, Nichols M, Petit S, Reingold A, Schaffner W, Thomas A, Pondo T, Mayer LW, Clark TA, Cohn AC. Epidemiology of infant meningococcal disease in the United States, 2006-2012. Pediatrics. 2015; 135:e305-11.

Moore MR, Link-Gelles R, Schaffner W, **Lynfield R**, Lexau C, Bennett NM, Petit S, Zansky SM, Harrison LH, Reingold A, Miller L, Scherzinger K, Thomas A, Farley MM, Zell ER, Taylor TH Jr, Pondo T, Rodgers L, McGee L, Beall B, Jorgensen JH, Whitney CG. Effect of use of 13-valent pneumococcal conjugate vaccine in children on invasive pneumococcal disease in children and adults in the USA: analysis of multisite, population-based surveillance. Lancet Infect Dis. 2015; S1473-3099(14)71081-3.

Boyle-Vavra S, Li X, Alam MT, Read TD, Sieth J, Cywes-Bentley C, Dobbins G, David MZ, Kumar N, Eells SJ, Miller LG, Boxrud DJ, Chambers HF, **Lynfield R**, Lee JC, Daum RS. USA300 and USA500 clonal lineages of Staphylococcus aureus do not produce a capsular polysaccharide due to conserved mutations in the cap5 locus. MBio. 2015; April 7;6(2). Pii: e02585-14.

Johnson TJ, Hargreaves M, Shaw T, Snipped P, **Lynfield R**, Aziz M, Price LB. Complete Genome Sequence of a Carbapenem-Resistant Extraintestinal Pathogenic *Escherichia coli* Strain Belonging to the Sequence Type 131 H30R Subclade. Genome Announ. 2015 Apr 9;3(2). pii: e00272-15.

David MZ, Acree ME, Sieth JJ, Boxrud DJ, Dobbins G, **Lynfield R**, Boyle-Vavra S, Daum RS. Pediatric *S. aureus* Isolate Genotypes and Infections from the Dawn of the CA-MRSA Epidemic Era in Chicago, 1995-1997. J Clin Microbiol. 2015 53:2486-91.

Braun ES, Crawford FW, Desai MM, Meek J, Kirley PD, Miller L, Anderson EJ, Oni O, Ryan P, **Lynfield R**, Bargsten M, Bennett NM, Lung KL, Thomas A, Mermel E, Lindegren ML, Schaffner W, Price A, Chaves SS. Obesity not associated with severity among hospitalized adults with seasonal influenza virus infection. Infection. 2015; 43:569-75.

Choi MJ, Torremorell M, Bender JB, Smith K, Boxrud D, Ertl JR, Yang M, Suwannakarn K, Her D, Nguyen J, Uyeki TM, Levine M, Lindstrom S, Katz JM, Jung M, Vetter S, Wong KK, Sreevatsan S, **Lynfield R**. Live animal markets in Minnesota: a potential source for emergence of novel influenza A viruses and interspecies transmission. Clin Infect Dis. 2015; 61:1355-62.

Worby CJ, Kenyon C, **Lynfield R**, Lipsitch M, Goldstein E. Examining the role of different age groups, and of vaccination during the 2012 Minnesota Pertussis outbreak. Sci Rep. 2015; 5:13182.doi 10.1038/srepp13182.

Chaves S, **Lynfield R**, Lindegren ML, Bresee J, Finelli L. The US influenza hospitalization surveillance network. *Emerg Infect Dis.* 2015; 21:1543-50.

Hadler JL, Danila RN, Cieslak PR, Meek JI, Schaffner W, Smith KE, Cartter ML, Harrison LH, Vugia, **Lynfield R**. Emerging Infections Program-State Health Department Perspective. *Emerg Infect Dis.* 2015; 21: 1510-5.

Langley G, Schaffner W, Farley MM, **Lynfield R**, Bennett NM, Reingold AL, Thomas A, Harrison LH, Nichols M, Petit S, Miller L, Moore MR, Schrag SJ, Lessa FC, Skoff TH, MacNeil JR, Briere EC, Weston EJ, Van Beneden C. Twenty years of Active Bacterial Core Surveillance. *Emerg Infect Dis.* 2015; 21:1520-8.

Millman AJ, Reed C, Daily Kirley P, Aragon D, Meek JI, Farley MM, Ryan P, Collins J, **Lynfield R**, Baumbach J, Zansky S, Bennett NM, Fowler B, Thomas A, Lindegren ML, Atkinson A, Finelli L, Chaves S. Improving Accuracy of Influenza-Associated Hospitalization Rate Estimates. *Emerg Infect Dis.* 2015; 21:1595-601.

Chea N, Bulens SN, Kongphet-Tran T, **Lynfield R**, Shaw KM, Snippes Vagnone P, Kainer MA, Muleta DM, Wilson L, Vaeth E, Dumyati G, Concannon C, Phipps EC, Culbreath K, Janelle SJ, Bamberg WM, Guh AY, Limbago B, and Kallen AJ. Improved Phenotype-Based Definition for Identifying Carbapenemase Producers among Carbapenem-Resistant *Enterobacteriaceae*. *Emerg Infect Dis.* 2015; 21: 1611-6

Fridkin SK, Cleveland AA, See, I, **Lynfield R**. Emerging Infections Program as surveillance for antimicrobial drug resistance. *Emerg Infect Dis.* 2015; 21: 1578-81.

Pinner RW, **Lynfield R**, Halder JL, Schaffner W, Farley MM, Frank ME, Schuchat A. Cultivation of an adaptive domestic network for surveillance and evaluation of emerging infections. *Emerg Infect Dis.* 2015; 21: 1499-509.

Fowlkes A, Steffens A, Temte J, Di Lonardo S, McHugh L, Martin K, Rubino H, Feist M, Davis C, Selzer C, Lojo J, Oni O, Kurkjian K, Thomas A, Boulton R, Bryan N, **Lynfield R**, Biggerstaff M, Finelli L; Influenza Incidence Surveillance Project Working Group. Incidence of medically attended influenza during pandemic and post pandemic seasons through the Influenza Incidence Surveillance Project, 2009-13. *Lancet Respir Med.* 2015; 3: 709-18.

Garg S, Jain S, Dawood FS, Jhung M, Pérez A, D'Mello T, Reingold A, Gershman K, Meek J, Arnold KE, Farley MM, Ryan P, **Lynfield R**, Morin C, Baumbach J, Hancock EB, Zansky S, Bennett N, Thomas A, Schaffner W, Finelli L. Pneumonia among adults hospitalized with laboratory-confirmed seasonal influenza virus infection-United States, 2005-2008. *BMC Infect Dis.* 2015; 15:369. Doi 10.1186/s12879-015-1004-y

Chaves SS, Pérez A, Miller L, Bennett NM, Bandyopadhyay A, Farley MM, Fowler B, Hancock EB, Kirley PD, **Lynfield R**, Ryan P, Morin C, Schaffner W, Sharangpani R, Lindegren ML, Tengelsen L, Thomas A, Hill MB, Bradley KK, Oni O, Meek J, Zansky S, Widdowson MA, Finelli L. Impact of prompt influenza antiviral treatment on extended care needs after influenza hospitalization among community-dwelling older adults. *Clin Infect Dis.* 2015; 61:1807-14.

Epstein L, Mu Y, Belflower R, Scott J, Ray S, Dumyati G, Felsen C, Petit S, Yousey-Hindes K, Nadle J, Pasutti L, **Lynfield R**, Warnke L, Schaffner W, Leib K, Kallen AJ, Fridkin SK, Lessa FC. Risk factors for invasive methicillin-resistant *Staphylococcus aureus* infection after recent discharge from an acute-

care hospitalization, 2011-2013. *Clin Infect Dis*. 2016; 62: 45-52.

Guh AY, Bulens SN, Mu Y, Jacob JT, Reno J, Scott J, Wilson LE, Vaeth E, **Lynfield R**, Shaw KM, Vagnone PM, Bamberg WM, Janelle SJ, Dumyati G, Concannon C, Beldavs Z, Cunningham M, Cassidy PM, Phipps EC, Kenslow N, Travis T, Lonsway D, Rasheed JK, Limbago BM, Kallen AJ. Epidemiology of carbapenem-resistant Enterobacteriaceae in 7 US communities, 2012-2013. *JAMA*. 2015; 314: 1479-87.

Hargreaves ML, Shaw KM, Dobbins G, Snippes Vagnone PM, Harper JE, Boxrud D, **Lynfield R**, Aziz M, Price LB, Silverstein KA, Danzeisen JL, Youmans B, Case K, Sreevatsan S, Johnson TJ. Clonal dissemination of *Enterobacter cloacae* harboring blaKPC-3 in the upper midwestern United States. *Antimicrob Agents Chemother*. 2015;59:7723-34.

Oboho IK, Reed C, Gargiullo P, Leon M, Aragon D, Meek J, Anderson EJ, Ryan P, **Lynfield R**, Morin C, Bargsten M, Zansky SM, Fowler B, Thomas A, Lindegren ML, Schaffner W, Risk I, Finelli L, Chaves SS. Benefit of early initiation of influenza antiviral treatment of pregnant women hospitalized with laboratory-confirmed influenza. *J Infect Dis*. 2016; 214:507-15.

Tomczyk S, **Lynfield R**, Schaffner W, Reingold A, Miller L, Petit S, Holtzman C, Zansky SM, Thomas A, Baumbach J, Harrison LH, Farley MM, Beall B, McGee L, Gierke R, Pondo T, Kim L. Prevention of antibiotic-nonsusceptible invasive pneumococcal disease with the 13-valent pneumococcal conjugate vaccine. *Clin Infect Dis*. 2016;62:1119-25.

Moore MR, Link-Gelles R, Schaffner W, **Lynfield R**, Holtzman C, Harrison LH, Zansky SM, Rosen JB, Reingold A, Scherzinger K, Thomas A, Guevara RE, Motala T, Eason J, Barnes M, Petit S, Farley MM, McGee L, Jorgensen JH, Whitney CG. Effectiveness of 13-valent pneumococcal conjugate vaccine for prevention of invasive pneumococcal disease in children in the USA: a matched case-control study. *Lancet Respir Med*. 2016;315(17):1864-73.

Nelson GE, Pondo T, Toews KA, Farley MM, Lindegren ML, **Lynfield R**, Aragon D, Zansky SM, Watt JP, Cieslak PR, Angeles K, Harrison LH, Petit S, Beall B, Van Beneden CA. Epidemiology of invasive group A Streptococcal infections in the United States, 2005-12. *Clin Infect Dis*. 2016;63:478-86

Fleming-Dutra KE, Hersh AL, Shapiro DJ, Bartoces M, Enns EA, File TM Jr, Finkelstein JA, Gerber JS, Hyun DY, Linder JA, **Lynfield R**, Margolis DJ, May LS, Merenstein D, Metlay JP, Newland JG, Piccirillo JF, Roberts RM, Sanchez GV, Suda KJ, Thomas A, Woo TM, Zetts RM, Hicks LA. Prevalence of Inappropriate Antibiotic Prescriptions Among US Ambulatory Care Visits, 2010-2011. *JAMA*. 2016;315:1864-73.

Metcalf BJ, Chochua S, Gertz RE Jr, Li Z, Walker H, Tran T, Hawkins PA, Glennen A, **Lynfield R**, Li Y, McGee L, Beall B; Active Bacterial Core surveillance team. Using whole genome sequencing to identify resistance determinants and predict antimicrobial resistance phenotypes for year 2015 invasive pneumococcal disease isolates recovered in the United States. *Clin Microbiol Infect*. 2016 Aug 16. pii: S1198-743X(16)30302-0. [Epub ahead of print]

Epstein L, Stone ND, LaPlace L, Harper J, **Lynfield R**, Warnke L, Whitten T, Maloney M, Melchreit R, Rodriguez R, Quinlan G, Concannon C, Dumyati G, Thompson DL, Thompson N. Comparison of data collection for healthcare-associated infection surveillance in nursing homes. *Infect Control Hosp Epidemiol*. 2016; 37:1440-45.

Blain AE, Mandal S, Wu H, MacNeil JR, Harrison LH, Farley MM, **Lynfield R**, Miller L, Nichols M, Petit S, Reingold A, Schaffner W, Thomas A, Zansky SM, Anderson R, Harcourt BH, Mayer LW, Clark

TA, Cohn AC. Penicillin use in meningococcal disease management: Active Bacterial Core Surveillance sites, 2009. *Open Forum Infect Dis*. 2016; 3(3):ofw152.

Thompson ND, LaPlace L, Epstein L, Thompson D, Dumyati G, Concannon C, Quinlan G, Witten T, Warnke L, **Lynfield R**, Maloney M, Melchreit R, Stone ND. Prevalence of antimicrobial use and opportunities to improve prescribing practices in U.S. Nursing Homes. *J Am Med Dir Assoc*. 2016; 17:1151-1153.

Schrag SJ, Farley MM, Petit S, Reingold A, Weston EJ, Pondo T, Hudson Jain J, **Lynfield R**. Epidemiology of invasive early-onset neonatal sepsis, 2005 to 2014. *Pediatrics*. 2016; 138(6):pii:20162706.

Harris CM, Wu HM, Li J, Hall HI, Lee A, Zell E, Harrison LH, Petit S, Farley MM, **Lynfield R**, Miller L, Nichols M, Reingold A, Schaffner W, Thomas A, MacNeil JR, Clark TA, Cohn AC. *Open Forum Infect Dis*. 2016; 3(4): ofw226. doi:10.1093/ofid/ofw226.

Cohn AC, MacNeil JR, Harrison LH, **Lynfield R**, Reingold A, Schaffner W, Zell ER, Plikaytis B, Wang X, Messonnier NE; Active Bacterial Core Surveillance (ABCs) Team and MeningNet Surveillance Partners. Effectiveness and duration of protection of one dose of a meningococcal conjugate vaccine. *Pediatrics*. 2017. Jan 28. pii: e20162193. doi: 10.1542/peds.2016-2193.

Appiah GD, Chaves SS, Kirley PD, Miller L, Meek J, Anderson E, Oni O, Ryan P, Eckel S, **Lynfield R**, Bargsten M, Zansky SM, Bennett N, Lung K, McDonald-Hamm C, Thomas A, Brady D, Lindegren ML, Schaffner W, Hill M, Garg S, Fry AM, Campbell AP. Increased antiviral treatment among hospitalized children and adults with laboratory-confirmed influenza, 2010-2015. *Clin Infect Dis* 2017; 64: 364-67.

Metcalf BJ, Chochua S, Gertz RE Jr, Hawkins PA, Ricaldi J, Li Z, Walker H, Tran T, Rivers J, Mathis S, Jackson D, Glennen A, **Lynfield R**, McGee L, Beall B; Active Bacterial Core surveillance team. Short-read whole genome sequencing for determination of antimicrobial resistance mechanisms and capsular serotypes of current invasive *Streptococcus agalactiae* recovered in the USA. *Clin Microbiol Infect* 2017 Feb 28. pii: S1198-743X(17)30118-0. doi: 10.1016/j.cmi.2017.02.021.

Arriola CS, Garg S, Anderson EJ, Ryan PA, George A, Zansky SM, Bennett N, Reingold A, Bargsten M, Miller L, Yousey-Hindes K, Tatham L, Bohm SR, **Lynfield R**, Thomas A, Lindegren ML, Schaffner W, Fry AM, Chaves SS. Influenza vaccination modifies disease severity among community-dwelling adults hospitalized with influenza. *Clin Infect Dis*. 2017 May 19. doi: 10.1093/cid/cix468. [Epub ahead of print]

Eure T, LaPlace LL, Melchreit R, Maloney M, **Lynfield R**, Whitten T, Warnke L, Dumyati G, Quinlan G, Concannon C, Thompson D, Stone ND, Thompson ND. Measuring antibiotic appropriateness for urinary tract infections in nursing home residents. *Infect Control Hosp Epidemiol*. 2017 May 31:1-4. doi: 10.1017/ice.2017.96. [Epub ahead of print].

Kline K, Hadler JL, Yousey-Hindes K, Niccolai L, Kirley PD, Miller L, Anderson EJ, Monroe ML, Bohm SR, **Lynfield R**, Bargsten M, Zansky SM, Lung K, Thomas AR, Brady D, Schaffner W, Reed G, Garg S. Impact of pregnancy on observed sex disparities among adults hospitalized with laboratory-confirmed influenza. *Influenza Other Respir Viruses*. 2017 Jul 13. doi: 10.1111/irv.12465. [Epub ahead of print]

Chandrasekhar R, Sloan C, Mitchel E, Ndi D, Alden N, Thomas A, Bennett NM, Kirley PD, Hill M, Anderson EJ, **Lynfield R**, Yousey-Hindes K, Bargsten M, Zansky SM, Lung K, Schroeder M, Monroe M, Eckel S, Markus TM, Cummings CN, Garg S, Schaffner W, Lindegren ML. Social determinants of

influenza hospitalization in the United States. *Influenza Other Respir Viruses*. 2017 Nov;11(6):479-488. doi: 10.1111/irv.12483. Epub 2017 Oct 6.

Chochua S, Metcalf BJ, Li Z, Rivers J, Mathis S, Jackson D, Gertz RE Jr, Srinivasan V, **Lynfield R**, Van Beneden C, McGee L, Beall B. Population and whole genome sequence based characterization of invasive group A streptococci recovered in the United States during 2015. *MBio*. 2017 Sep 19;8(5). pii: e01422-17. doi: 10.1128/mBio.01422-17.

Thielen BK, Friedlander H, Bistodeau S, Shu B, Lynch B, Martin K, Bye E, Como-Sabetti K, Boxrud D, Strain AK, Chaves SS, Steffens A, Fowlkes AL, Lindstrom S, **Lynfield R**. Detection of influenza C viruses among outpatients and patients hospitalized for severe acute respiratory infection, Minnesota, 2013-2016. *Clin Infect Dis*. 2018; 66:1092-1098.

Dwyer DE, **Lynfield R**, Losso MH, Davey RT, Cozzi-Lepri A, Wentworth D, Uyeki TM, Gordin F, Angus B, Qvist T, Emery S, Lundgren J, Neaton JD; INSIGHT Influenza Study Group. Comparisons of outcomes of individuals with medically attended influenza A and B virus infections enrolled in 2 international cohort studies over a 6-year period: 2009-2015. *Open Forum Infect Dis*. 2017 Oct 7;4(4):ofx212. doi: 10.1093/ofid/ofx212. eCollection 2017 Fall.

Muley SA, Holzbauer S, Clark B, Sejvar J, **Lynfield R**, Parry G, DeVries AS. Immunohistochemistry and electrophysiological findings in swine abattoir workers with immune-mediated polyradiculoneuropathy. *J Neurol Sci*. 2018 Feb 15;385:34-38. doi: 10.1016/j.jns.2017.12.005. Epub 2017 Dec 6.

Soeters HM, Blain A, Pondo T, Doman B, Farley MM, Harrison LH, **Lynfield R**, Miller L, Petit S, Reingold A, Schaffner W, Thomas A, Zansky SM, Wang X, Briere EC. Current epidemiology and trends in invasive *Haemophilus influenzae* disease-United States, 2009-2015. *Clin Infect Dis*. 2018 Mar 2. doi: 10.1093/cid/ciy187. [Epub ahead of print]

Bulens SN, Yi SH, Walters MS, Jacob JT, Bower C, Reno J, Wilson L, Vaeth E, Bamberg W, Janelle SJ, **Lynfield R**, Vagnone PS, Shaw K, Kainer M, Muleta D, Mounsey J, Dumyati G, Concannon C, Beldavs Z, Cassidy PM, Phipps EC, Kenslow N, Hancock EB, Kallen AJ. Carbapenem-nonsusceptible *Acinetobacter baumannii*, 8 US metropolitan Areas, 2012-2015. *Emerg Infect Dis*. 2018 Apr;24(4):727-734. doi: 10.3201/eid2404.171461.

Elbadawi LI, Talley P, Rolfes MA, Millman AJ, Reisdorf E, Kramer NA, Barnes JR, Blanton L, Christensen J, Cole S, Danz T, Dreisig JJ, Garten R, Haupt T, Isaac BM, Jackson MA, Kocharian A, Leifer D, Martin K, McHugh L, McNall RJ, Palm J, Radford KW, Robinson S, Rosen JB, Sakthivel SK, Shult P, Strain AK, Turabelidze G, Webber LA, Weinberg MP, Wentworth DE, Whitaker BL, Finelli L, Jhung MA, **Lynfield R**, Davis JP. Non-mumps viral parotitis during the 2014-2015 influenza season in the United States. *Clin Infect Dis*. 2018 Mar 30. doi: 10.1093/cid/ciy137. [Epub ahead of print]

Rolfes MA, Millman AJ, Talley P, Elbadawi LI, Kramer NA, Barnes JR, Blanton L, Davis JP, Cole S, Dreisig JJ, Garten R, Haupt T, Jackson MA, Kocharian A, Leifer D, **Lynfield R**, Martin K, McHugh L, Robinson S, Turabelidze G, Webber LA, Pearce Weinberg M, Wentworth DE, Finelli L, Jhung MA. Influenza-associated parotitis during the 2014-2015 influenza season in the United States. *Clin Infect Dis*. 2018 Mar 30. doi: 10.1093/cid/ciy136. [Epub ahead of print]

Simonsen L, Higgs E, Taylor RJ, Wentworth D, Cozzi-Lepri A, Pett S, Dwyer DE, Davey R, **Lynfield R**, Losso M, Morales K, Glesby MJ, Weckx J, Carey D, Lane C, Lundgren J; INSIGHT FLU002 and FLU003 Study Groups. Using clinical research networks to assess severity of an emerging influenza Pandemic. *Clin Infect Dis*. 2018 May 8. doi: 10.1093/cid/ciy088. [Epub ahead of print]

Choi MJ, Worku S, Knust B, Vang A, **Lynfield R**, Mount MR, Objio T, Brown S, Griffith J, Hulbert D, Lippold S, Ervin E, Ströher U, Holzbauer S, Slattery W, Washburn F, Harper J, Koeck M, Uher C, Rollin P, Nichol S, Else R, DeVries A. A Case of Lassa Fever Diagnosed at a Community Hospital-Minnesota 2014. *Open Forum Infect Dis*. 2018 Jul 16;5(7):ofy131. doi: 10.1093/ofid/ofy131. eCollection 2018 Jul.

Kline SE, Neaton JD, **Lynfield R**, Ferrieri P, Kulasingam S, Dittes K, Glennen A, Jawahir S, Kaizer A, Menk J, Johnson JR. Randomized controlled trial of a self-administered five-day antiseptic bundle versus usual disinfectant soap showers for preoperative eradication of *Staphylococcus aureus* colonization. *Infect Control Hosp Epidemiol*. 2018 Jul 24:1-9. doi: 10.1017/ice.2018.151. [Epub ahead of print]

Grigg C, Palms D, Stone ND, Gualandi N, Bamberg W, Dumyati G, Harrison LH, **Lynfield R**, Nadle J, Petiti S, Ray S, Schaffner W, Townes J, See I. Burden of invasive methicillin-resistant *Staphylococcus aureus* in nursing home residents. *J Am Geriatr Soc*. 2018; 66:1581-1586.

Tomczyk S, Whitten T, Holzbauer SM, **Lynfield R**. Combating antibiotic resistance: A survey on the antibiotic prescribing habits of dentists. *Gen Dent*. 2018; 66:61-68.

Collins JP, Campbell AP, Openo K, Farley MM, Cummings CN, Kirley PD, Herlihy R, Yousey-Hindes K, Monroe ML, Ladisky M, **Lynfield R**, Baumbach J, Spina N, Bennett N, Billing L, Thomas A, Schaffner W, Price A, Garg S, Anderson EJ. Clinical features and outcomes of immunocompromised children hospitalized with laboratory-confirmed influenza in the United States, 2011-2015. *J Pediatric Infect Dis Soc*. 2018 Oct 25. doi: 10.1093/jpids/piy101. [Epub ahead of print]

Magill SS, O'Leary E, Janelle SJ, Thompson DL, Dumyati G, Nadle J, Wilson LE, Kainer MA, **Lynfield R**, Greissman S, Ray SM, Beldavs Z, Gross C, Bamberg W, Sievers M, Concannon C, Buhr N, Warnke L, Maloney M, Ocampo V, Brooks J, Oyewumi T, Sharmin S, Richards K, Rainbow J, Samper M, Hancock EB, Leaprot D, Scalise E, Badrun F, Phelps R, Edwards JR; Emerging Infections Program Hospital Prevalence Survey Team. Changes in prevalence in health care-associated infections in US hospitals. *N Engl J Med*. 2018;379(18):1732-1744.

Koeck M, Como-Sabetti K, Boxrud D, Dobbins G, Glennen A, Anacker M, Jawahir S, See I, **Lynfield R**. Burdens of invasive methicillin-susceptible and methicillin-resistant *Staphylococcus aureus* disease, Minnesota, USA. *Emerg Infect Dis*. 2019;25(1):171-174.

Nanduri SA, Petit S, Smelser C, Apostol M, Alden NB, Harrison LH, **Lynfield R**, Vagnone PS, Burzloff K, Spina NL, Dufort EM, Schaffner WS, Thomas AR, Farley MM, Jain JH, Pondo T, McGee L, Beall BW, Schrag SJ. Epidemiology of invasive early-onset and late-onset group B streptococcal disease in the United States, 2006 to 2015: Multistate Laboratory and Population-Based Surveillance. *JAMA Pediatr*. 2019 Jan 14. doi: 10.1001/jamapediatrics.2018.4826. [Epub ahead of print]

Pereira EC, Anacker M, Houseman J, Horn ME, Johnson TJ, **Lynfield R**, Vagnone PS, Witwer M, Kline S. A cluster of carbapenemase-producing *Enterobacter cloacae* complex ST171 at a tertiary care center demonstrating an ongoing regional threat. *Am J Infect Control*. 2019 Jan 30. pii: S0196-6553(18)31179-9. doi: 10.1016/j.ajic.2018.12.016. [Epub ahead of print]

Rolfes MA, Flannery B, Chung J, O'Halloran A, Garg S, Belongia EA, Gaglani M, Zimmerman R, Jackson ML, Monto AS, Alden NB, Anderson E, Bennett NM, Billing L, Eckel S, Kirley PD, **Lynfield R**, Monroe ML, Spencer M, Spina N, Talbot HK, Thomas A, Torres S, Yousey-Hindes K, Singleton J, Patel M, Reed C, Fry AM; U.S. Flu VE Network, the Influenza Hospitalization Surveillance Network (FluSurv-NET), and the Assessment Branch, Immunization Services Division, Centers for Disease Control and Prevention. Effects of influenza vaccination in the United States during the 2017-2018 influenza season. *Clin Infect Dis*. 2019 Feb 2. doi: 10.1093/cid/ciz075. [Epub ahead of print]

Francois Watkins LK, McGee L, Schrag SJ, Beall B, Jain JH, Pondo T, Farley MM, Harrison LH, Zansky SM, Baumbach J, **Lynfield R**, Snippes Vagnone P, Miller LA, Schaffner W, Thomas AR, Watt JP, Petit S, Langley GE. Epidemiology of invasive group B streptococcal infections among nonpregnant adults in the United States, 2008-2016. *JAMA Intern Med*. 2019 Feb 18. doi: 10.1001/jamainternmed.2018.7269. [Epub ahead of print]

See I, Mu Y, Albrecht V, Karlsson M, Dumyati G, Hardy DJ, Koeck M, **Lynfield R**, Nadle J, Ray SM, Schaffner W, Kallen AJ. Trends in incidence of methicillin-resistant *Staphylococcus aureus* bloodstream infections differ by strain type and healthcare exposure, United States, 2005-2013. *Clin Infect Dis*. 2019 Feb 25. pii: ciz158. doi: 10.1093/cid/ciz158. [Epub ahead of print]

Jackson KA, Gokhale RH, Nadle J, Ray SM, Dumyati G, Schaffner W, Ham DC, Magill SS, **Lynfield R**, See I. Public health importance of invasive methicillin-sensitive *Staphylococcus aureus* infections: Surveillance in 8 US counties, 2016. *Clin Infect Dis*. 2019 Apr 23. pii: ciz323. doi: 10.1093/cid/ciz323. [Epub ahead of print]

Collins JP, Campbell AP, Openo K, Farley MM, Cummings CN, Hill M, Schaffner W, Lindegren ML, Thomas A, Billing L, Bennett N, Spina N, Bargsten M, **Lynfield R**, Eckel S, Ryan P, Yousey-Hindes K, Herlihy R, Kirley PD, Garg S, Anderson EJ. Outcomes of immunocompromised adults hospitalized with laboratory-confirmed influenza in the United States, 2011-2015. *Clin Infect Dis*. 2019 Jul 11. pii: ciz638. doi: 10.1093/cid/ciz638. [Epub ahead of print]

Ahmed SS, Pondo T, Xing W, McGee L, Farley M, Schaffner W, Thomas A, Reingold A, Harrison L, **Lynfield R**, Rowlands J, Bennett N, Petit S, Barnes M, Smelser C, Beall B, Whitney CG, Pilishvili T. Early impact of 13-valent pneumococcal conjugate vaccine use on invasive pneumococcal disease among adults with and without underlying medical conditions-United States. *Clin Infect Dis*. 2019 Aug 12. pii: ciz739. doi: 10.1093/cid/ciz739. [Epub ahead of print]

Varghese J, Chochua S, Tran T, Walker H, Li Z, Snippes Vagnone PM, **Lynfield R**, McGee L, Li Y, Metcalf BJ, Pilishvili T, Beall B. Multistate population and whole genome sequence-based strain surveillance of invasive pneumococci recovered in the USA during 2017. *Clin Microb Infect*. 2019 Sep 1

Thompson ND, Penna A, Eure TR, Bamberg WM, Barney G, Barter D, Clogher P, DeSilva MB, Dumyati G, Epton E, Frank L, Godine D, Irizarry L, Kainer MA, Li L, **Lynfield R**, Mahoehney JP, Nadle J, Ocampo V, Perry L, Ray SM, Davis SS, Sievers M, Wilson LE, Zhang AY, Stone ND, Magill SS. Epidemiology of Antibiotic Use for Urinary Tract Infection in Nursing Home Residents. *J Am Med Dir Assoc*. 2020 Jan;21(1):91-96. doi: 10.1016/j.jamda.2019.11.009. Epub 2019 Dec 9.

Nirmala J, Bender JB, **Lynfield R**, Yang M, Rene Culhane M, Nelson MI, Sreevatsan S, Torremorell M. Genetic Diversity of Influenza A Viruses Circulating in Pigs Between Winter and Summer in a Minnesota Live Animal Market. *Zoonoses Public Health*. 2020 May;67(3):243-250. doi: 10.1111/zph.12679. Epub 2019 Dec 23.

Arriola CS, Kim L, Langley G, Anderson EJ, Openo K, Martin AM, **Lynfield R**, Bye E, Como-Sabetti K, Reingold A, Chai S, Daily P, Thomas A, Crawford C, Reed C, Garg S, Chaves SS. Estimated Burden of Community-Onset Respiratory Syncytial Virus-Associated Hospitalizations Among Children Aged <2 Years in the United States, 2014-15. *J Pediatric Infect Dis Soc*. 2019 Dec 23:piz087. doi: 10.1093/jpids/piz087. Online ahead of print.

McGee L, Chochua S, Li Z, Mathis S, Rivers J, Metcalf B, Ryan A, Alden N, Farley MM, Harrison LH, Snippes Vagnone P, **Lynfield R**, Smelser C, Muse A, Thomas AR, Schrag S, Beall BW.. Multistate, Population-Based Distributions of Candidate Vaccine Targets, Clonal Complexes, and Resistance

Features of Invasive Group B Streptococci Within the US: 2015-2017. Clin Infect Dis. 2020 Feb 15:ciaa151. doi: 10.1093/cid/ciaa151. Online ahead of print. Clin Infect Dis. 2020. PMID: 32060499

Thielen BK, Bye E, Wang X, Maroushek S, Friedlander H, Bistodeau S, Christensen J, Reisdorf E, Shilts MH, Martin K, Como-Sabetti K, Strain AK, Ferrieri P, **Lynfield R**. Summer Outbreak of Severe RSV-B Disease, Minnesota, 2017 Associated With Emergence of a Genetically Distinct Viral Lineage. J Infect Dis. 2020 Feb 20;jiaa075. doi: 10.1093/infdis/jiaa075.

Chow EJ, Rolfes MA, O'Halloran A, Alden NB, Anderson EJ, Bennett NM, Billing L, Dufort E, Kirley PD, George A, Irizarry L, Kim S, **Lynfield R**, Ryan P, Schaffner W, Talbot HK, Thomas A, Yousey-Hindes K, Reed C, Garg S. Respiratory and Nonrespiratory Diagnoses Associated with Influenza in Hospitalized Adults JAMA Netw Open. 2020 Mar 2;3(3):e201323. doi: 10.1001/jamanetworkopen.2020.1323.

Penna AR, Sancken CL, Stone ND, Eure TR, Bamberg W, Barney G, Barter D, Carswell S, Clogher P, Dumyati G, Felsen CB, Frank L, Godine D, Johnston H, Kainer MA, Li L, **Lynfield R**, Mahoehney JP, Nadle J, Pierce R, Ray SM, Davis SS, Sievers M, Wilson LE, Zhang AY, Magill SS, Thompson ND. Documentation of Acute Change in Mental Status in Nursing Homes Highlights Opportunity to Augment Infection Surveillance Criteria. Infect Control Hosp Epidemiol. 2020 Apr 28:1-3. doi: 10.1017/ice.2020.77. Online ahead of print.

Sloan C, Chandrasekhar R, Mitchel E, Ndi D, Miller L, Thomas A, Bennett NM, Chai S, Spencer M, Eckel S, Spina N, Monroe M, Anderson EJ, **Lynfield R**, Yousey-Hindes K, Bargsten M, Zansky S, Lung K, Schroeder M, N Cummings C, Garg S, Schaffner W, Lindegren ML. Spatial and Temporal Clustering of Patients Hospitalized With Laboratory-Confirmed Influenza in the United States Epidemics. 2020 Jun;31:100387. doi: 10.1016/j.epidem.2020.100387. Epub 2020 Feb 10.

Taylor J, Vagnone PS, Smith K, Walters J, Wengenack N, Deml S, Ferrieri P, **Lynfield R**. Characteristics of Clinical Extrapulmonary Nontuberculous Mycobacteria Isolates in Minnesota, 2013-2017 Minn Med. 2020 Jun;103(3):39-43.

Soeters HM, Oliver SE, Plumb ID, Blain AE, Zulz T, Simons BC, Barnes M, Farley MM, Harrison LH, **Lynfield R**, Massay S, McLaughlin J, Muse AG, Petit S, Schaffner W, Thomas A, Torres S, Watt J, Pondo T, Whaley MJ, Hu F, Wang X, Briere EC, Bruce MG. Epidemiology of Invasive *Haemophilus influenzae* Serotype a Disease-United States, 2008-2017. Clin Infect Dis. 2020 Jun 26:ciaa875. doi: 10.1093/cid/ciaa875. Online ahead of print.

Fay K, Sapiano MRP, Gokhale R, Dantes R, Thompson N, Katz DE, Ray SM, Wilson LE, Perlmutter R, Nadle J, Godine D, Frank L, Brousseau G, Johnston H, Bamberg W, Dumyati G, Nelson D, **Lynfield R**, DeSilva M, Kainer M, Zhang A, Ocampo V, Samper M, Pierce R, Irizarry L, Sievers M, Maloney M, Fiore A, Magill SS, Epstein L. Assessment of Health Care Exposures and Outcomes in Adult Patients with Sepsis and Septic Shock JAMA Netw Open. 2020 Jul 1;3(7):e206004. doi: 10.1001/jamanetworkopen.2020.

Havers FP, Reed C, Lim T, Montgomery JM, Klena JD, Hall AJ, Fry AM, Cannon DL, Chiang CF, Gibbons A, Krapunaya I, Morales-Betoulle M, Roguski K, Rasheed MAU, Freeman B, Lester S, Mills L, Carroll DS, Owen SM, Johnson JA, Semenova V, Blackmore C, Blog D, Chai SJ, Dunn A, Hand J, Jain S, Lindquist S, **Lynfield R**, Pritchard S, Sokol T, Sosa L, Turabelidze G, Watkins SM, Wiesman J, Williams RW, Yendell S, Schiffer J, Thornburg NJ. Seroprevalence of Antibodies to SARS-CoV-2 in 10 Sites in the United States, March 23-May 12, 2020. JAMA Intern Med. 2020 Jul 21. doi: 10.1001/jamainternmed.2020.4130. Online ahead of print.

Li Y, Rivers J, Mathis S, Li Z, Velusamy S, Nanduri SA, Van Beneden CA, Snippes-Vagnone P, **Lynfield R**, McGee L, Chochua S, Metcalf BJ, Beall B. Genomic Surveillance of *Streptococcus pyogenes* Strains Causing Invasive Disease, United States, 2016-2017. *Front Microbiol Actions*. 2020. Jul 24;11:1547. doi: 10.3389/fmicb.2020.01547.

Reagan-Steiner S, Gary J, Matkovic E, Ritter JM, Shieh WJ, Martines RB, Werner AK, **Lynfield R**, Holzbauer S, Bullock H, Denison AM, Bhatnagar J, Bollweg BC, Patel M, Evans ME, King BA, Rose DA, Baldwin GT, Jones CM, Krishnasamy V, Briss PA, Weissman DN, Meaney-Delman D, Zaki SR; Lung Injury Response Pathology Working Group. Pathological findings in suspected cases of e-cigarette, or vaping, product use-associated lung injury (EVALI): a case series. *Lancet Respir Med*. 2020 Aug 4:S2213-2600(20)30321-0. doi: 10.1016/S2213-2600(20)30321-0. Online ahead of print

Chow EJ, Rolfes MA, O'Halloran A, Anderson EJ, Bennett NM, Billing L, Chai S, Dufort E, Herlihy R, Kim S, **Lynfield R**, McMullen C, Monroe ML, Schaffner W, Spencer M, Talbot HK, Thomas A, Yousey-Hindes K, Reed C, Garg S. Acute Cardiovascular Events Associated with Influenza in Hospitalized Adults: A Cross-sectional Study *Ann Intern Med*. 2020 Aug 25. doi: 10.7326/M20-1509. Online ahead of print.

Ko JY, Danielson ML, Town M, Derado G, Greenlund KJ, Kirley PD, Alden NB, Yousey-Hindes K, Anderson EJ, Ryan PA, Sue Kim, **Lynfield R**, Torres SM, Barney GR, Bennett NM, Sutton M, Talbot HK, Hill M, Hall AJ, Fry AM, Garg S, Kim L, COVID-NET Surveillance Team. Risk Factors for COVID-19-associated hospitalization: COVID-19-Associated Hospitalization Surveillance Network and Behavioral Risk Factor Surveillance System. *Clin Infect Dis*. 2020 Sep 18 : ciaa1419. Published online 2020 Sep 18. doi: 10.1093/cid/ciaa1419

Holstein R, Dawood FS, Kirley PD, Herlihy R, Yousey-Hindes K, Fawcett E, Monroe M, Kim S, **Lynfield R**, McMullen CL, Muse A, Billing LM, Sutton M, Talbot H, Risk I, Garg S. Characteristics and Outcomes of Pregnant Women Hospitalized with Influenza in the United States, Flusurv-net, 2010–2019. *Open Forum Infect Dis*. 2020 Oct; 7(Suppl 1): S193–S194. Published online 2020 Dec 31. doi: 10.1093/ofid/ofaa439.438

Owusu D, Rolfes MA, Arriola Velezmoro CS, Reed C, Kirley PD, Alden NB, Anderson EJ, Monroe M, Kim S, **Lynfield R**, McMullen CL, Spina N, Bennett NM, Billing LM, Thomas A, Talbot H, McCaffrey K, Yousey-Hindes K, Garg S. Risk of Influenza-Associated Hospitalization Among Older Adults Living with Diabetes — United States, 2012–2017. *Open Forum Infect Dis*. 2020 Oct; 7(Suppl 1): S754–S755. Published online 2020 Dec 31. doi: 10.1093/ofid/ofaa439.1685

Kobayashi M, McGee L, Chochua S, Apostol M, Alden NB, Farley MM, Harrison LH, **Lynfield R**, Vagnone PS, Smelser C, Muse A, Thomas AR, Deng L, Metcalf BJ, Beall BW, Schrag SJ. Low but Increasing Prevalence of Reduced Beta-lactam Susceptibility Among Invasive Group B Streptococcal Isolates, US Population-Based Surveillance, 1998-2018 *Open Forum Infect Dis*. 2020 Dec 21;8(2):ofaa634. doi: 10.1093/ofid/ofaa634. eCollection 2021 Feb.

Cole C, Wiens T, Taylor J, Danila R, D'Heilly P, Margetta J, Bye M, Mumm E, Schwerzler L, Makhtal R, Holzbauer S, **Lynfield R**. Vaping, lung injury, and mental health Minnesota 2018-2019. *Minn Med*. 2021 Jan 5;104(3):41-43.

Magill SS, O'Leary E, Ray SM, Kainer MA, Evans C, Bamberg WM, Johnston H, Janelle SJ, Oyewumi T, **Lynfield R**, Rainbow J, Warnke L, Nadle J, Thompson DL, Sharmin S, Pierce R, Zhang AY, Ocampo V, Maloney M, Greissman S, Wilson LE, Dumyati G, Edwards JR, Chea N, Neuhauser MM; Emerging Infections Program Hospital Prevalence Survey Team. Assessment of the Appropriateness of

Antimicrobial Use in US Hospitals JAMA Netw Open. 2021 Mar 1;4(3):e212007. doi: 10.1001/jamanetworkopen.2021.2007.

McGee L, Chochua S, Li Z, Mathis S, Rivers J, Metcalf B, Ryan A, Alden N, Farley MM, Harrison LH, Snippes Vagnone P, **Lynfield R**, Smelser C, Muse A, Thomas AR, Schrag S, Beall BW. Multistate, Population-Based Distributions of Candidate Vaccine Targets, Clonal Complexes, and Resistance Features of Invasive Group B Streptococci within the United States, 2015-2017. Clin Infect Dis. 2021 Mar 15;72(6):1004-1013. doi: 10.1093/cid/ciaa151. Clin Infect Dis. 2021 Mar 15;72(6):1004-1013. doi: 10.1093/cid/ciaa151.

Pimenta F, Moiane B, Gertz RE Jr, Chochua S, Snippes Vagnone PM, **Lynfield R**, Sigaúque B, Carvalho MDG, Beall B.J Clin Microbiol. New Pneumococcal Serotype: 15D. 2021 Apr 20;59(5):e00329-21. doi: 10.1128/JCM.00329-21. Print 2021 Apr 20.

Thompson ND, Stone ND, Brown CJ, Penna AR, Eure TR, Bamberg WM, Barney GR, Barter D, Clogher P, DeSilva MB, Dumyati G, Frank L, Felsen CB, Godine D, Irizarry L, Kainer MA, Li L, **Lynfield R**, Mahoehney JP, Maloney M, Nadle J, Ocampo VLS, Pierce R, Ray SM, Davis SS, Sievers M, Srinivasan K, Wilson LE, Zhang AY, Magill SS Antimicrobial Use in a Cohort of US Nursing Homes, 2017. JAMA. 2021 Apr 6;325(13):1286-1295. doi: 10.1001/jama.2021.2900.

Magill SS, O'Leary E, Ray SM, Kainer MA, Evans C, Bamberg WM, Johnston H, Janelle SJ, Oyewumi T, **Lynfield R**, Rainbow J, Warnke L, Nadle J, Thompson DL, Sharmin S, Pierce R, Zhang AY, Ocampo V, Maloney M, Greissman S, Wilson LE, Dumyati G, Edwards JR; Emerging Infections Program Hospital Prevalence Survey Team. Antimicrobial Use in US Hospitals: Comparison of Results from Emerging Infections Program Prevalence Surveys, 2015 and 2011. Clin Infect Dis. 2021 May 18;72(10):1784-1792. doi: 10.1093/cid/ciaa373.

Chea N, Eure T, Penna AR, Brown CJ, Nadle J, Godine D, Frank L, Czaja CA, Johnston H, Barter D, Feighner Miller B, Angell K, Marshall K, Meek J, Brackney M, Carswell S, Thomas S, Wilson LE, Perlmutter R, Marceaux-Galli K, Fell A, Lim S, **Lynfield R**, Davis SS, Phipps EC, Sievers M, Dumyati G, Concannon C, McCullough K, Woods A, Seshadri S, Myers C, Pierce R, Ocampo VLS, Guzman-Cottrill JA, Escutia G, Samper M, Pena SA, Adre C, Groenewold M, Thompson ND, Magill SS. Practices and activities among healthcare personnel with severe acute respiratory coronavirus virus 2 (SARS-CoV-2) infection working in different healthcare settings—Ten Emerging Infections Program sites, April–November 2020. Infect Control Hosp Epidemiol. 2021 Jun 2: 1–5. Published online 2021 Jun

Metcalf BJ, Chochua S, Walker H, Tran T, Li Z, Varghese J, Snippes Vagnone PM, **Lynfield R**, McGee L, Li Y, Pilishvili T, Beall B. Invasive pneumococcal strain distributions and isolate clusters associated with persons experiencing homelessness during 2018. Clin Infect Dis. 2021 Jun 15;72(12):e948-e956. doi: 10.1093/cid/ciaa1680.2.

Lehnertz NB, Wang X, Garfin J, Taylor J, Zipprich J, VonBank B, Martin K, Eikmeier D, Medus C, Wiednmyer B, Bernu C, Plumb M, Pung K, Honein MA, Carter R, MacCannell D, Smith KE, Como-Sabetti K, Ehresmann K, Danila R, **Lynfield R**. Transmission dynamics of Severe Acute Respiratory Syndrome Coronavirus-2 in high density settings, Minnesota, USA, March-June 2020. Emerg Infect Dis. 2021 Aug;27(8):2052-2063. doi: 10.3201/eid2708.204838. Epub 2021 Jun 17.

Fay K, Onukwube J, Chochua S, Schaffner W, Cieslak P, **Lynfield R**, Muse A, Smelser C, Harrison LH, Farley M, Petit S, Alden N, Apostol M, Vagnone PS, Nanduri S, Beall B, Van Beneden CA. Patterns of antibiotic nonsusceptibility among invasive group A *Streptococcus* infections-United States, 2006-2017. Clin Infect Dis. 2021 Jun 25:ciab575. doi: 10.1093/cid/ciab575. Online ahead of print. PMID: 34170310

O'Halloran AC, Holstein R, Cummings C, Daily Kirley P, Alden NB, Yousey-Hindes K, Anderson EJ, Ryan P, Kim S, **Lynfield R**, McMullen C, Bennett NM, Spina N, Billing LM, Sutton M, Schaffner W, Talbot HK, Price A, Fry AM, Reed C, Garg S. Rates of Influenza-Associated Hospitalization, Intensive Care Unit Admission, and In-Hospital Death by Race and Ethnicity in the United States From 2009 to 2019. *JAMA Netw Open*. 2021 Aug 2;4(8):e2121880. doi: 10.1001/jamanetworkopen.2021.21880.

Campbell AP, Tokars JI, Reynolds S, Garg S, Kirley PD, Miller L, Yousey-Hindes K, Anderson EJ, Oni O, Monroe M, Kim S, **Lynfield R**, Smelser C, Muse AT, Felsen C, Billing LM, Thomas A, Mermel E, Lindegren ML, Schaffner W, Price A, Fry AM. Influenza antiviral treatment and length of stay. *Pediatrics*. 2021 Oct;148(4):e2021050417. doi: 10.1542/peds.2021-050417. Epub 2021 Sep 1. PMID: 34470815

Wortham JM, Meador SA, Hadler JL, Yousey-Hindes K, See I, Whitaker M, O'Halloran A, Milucky J, Chai SJ, Reingold A, Alden NB, Kawasaki B, Anderson EJ, Openo KP, Weigel A, Monroe ML, Ryan PA, Kim S, Reeg L, **Lynfield R**, McMahan M, Sosin DM, Eisenberg N, Rowe A, Barney G, Bennett NM, Bushey S, Billing LM, Shiltz J, Sutton M, West N, Talbot HK, Schaffner W, McCaffrey K, Spencer M, Kambhampati AK, Anglin O, Piasecki AM, Holstein R, Hall AJ, Fry AM, Garg S, Kim L. Census tract socioeconomic indicators and COVID-19-associated hospitalization rates-COVID-NET surveillance areas in 14 states, March 1-April 30, 2020. *PLoS One*. 2021 Sep 24;16(9):e0257622. doi: 10.1371/journal.pone.0257622. eCollection 2021.

Acosta AM, Garg S, Pham H, Whitaker M, Anglin O, O'Halloran A, Milucky J, Patel K, Taylor C, Wortham J, Chai SJ, Kirley PD, Alden NB, Kawasaki B, Meek J, Yousey-Hindes K, Anderson EJ, Openo KP, Weigel A, Monroe ML, Ryan P, Reeg L, Kohrman A, **Lynfield R**, Bye E, Torres S, Salazar-Sanchez Y, Muse A, Barney G, Bennett NM, Bushey S, Billing L, Shiltz E, Sutton M, Abdullah N, Talbot HK, Schaffner W, Ortega J, Price A, Fry AM, Hall A, Kim L, Havers FP. Racial and Ethnic Disparities in Rates of COVID-19-Associated Hospitalization, Intensive Care Unit Admission, and In-Hospital Death in the United States From March 2020 to February 2021. *JAMA Netw Open*. 2021 Oct 1;4(10):e2130479. doi: 10.1001/jamanetworkopen.2021.30479. PMID: 34673962

Wiens T, Taylor J, Cole C, Saravia S, Peterson J, Lunda M, Margetta J, D'Heilly P, Holzbauer S, **Lynfield R**. Lessons Learned From the E-cigarette, or Vaping, Product Use-Associated Lung Injury (EVALI) Outbreak Response, Minnesota, 2019-2020. *Public Health Rep*. 2021 Oct 25;333549211051394. doi: 10.1177/00333549211051394

Wiens T, Bilden E, Saravia S, Peterson J, Wogen M, Hanson K, Makhtal R, Wright N, Roesler J, **Lynfield R**. Biosurveillance of drug overdoses and substance misuse treated in selected emergency departments in Minnesota, 2017-2020. *Public Health Rep*. 2021 Nov-Dec;136(1_suppl):87S-95S. doi: 10.1177/00333549211042834. PMID: 34726980

Chea N, Brown CJ, Eure T, Ramirez RA, Blazek G, Penna AR, Li R, Czaja CA, Johnston H, Barter D, Miller BF, Angell K, Marshall KE, Fell A, Lovett S, Lim S, **Lynfield R**, Davis SS, Phipps EC, Sievers M, Dumyati G, Concannon C, McCullough K, Woods A, Seshadri S, Myers C, Pierce R, Ocampo VLS, Guzman-Cottrill JA, Escutia G, Samper M, Thompson ND, Magill SS, Grigg CT. Risk factors for SARS-CoV-2 infection among US healthcare personnel, May-December 2020. *Emerg Infect Dis*. 2022 Jan;28(1):95-103. doi: 10.3201/eid2801.211803. Epub 2021 Dec 2. PMID: 34856114

Lehnertz NB, Lifson A, Galloway E, Taylor J, Carter RJ, Kazazian L, Day K, Miller S, Mendez E, **Lynfield R**. Temperature and oxygen saturation in skilled nursing facility residents positive for SARS-

CoV-2 prior to symptom onset. *J Am Geriatr Soc.* 2022 Feb;70(2):363-369. doi: 10.1111/jgs.17567. Epub 2021 Nov 18. PMID: 34751428

Holstein R, Dawood FS, O'Halloran A, Cummings C, Ujamaa D, Daily Kirley P, Yousey-Hindes K, Fawcett E, Monroe ML, Kim S, **Lynfield R**, McMullen C, Muse A, Bennett NM, Billing LM, Sutton M, Thomas A, Talbot HK, Schaffner W, Risk I, Reed C, Garg S. Characteristics and outcomes of hospitalized pregnant women with influenza, 2010 to 2019: A Repeated Cross-Sectional Study. *Ann Intern Med.* 2022 Feb;175(2):149-158. doi: 10.7326/M21-3668. Epub 2021 Dec 28. PMID: 3495860

Wienkes H, Vilen K, Lorentz A, Gerlach D, Wang X, Saupe A, Danila R, **Lynfield R**, Smith K, Medus C. Transmission of and infection With COVID-19 among vaccinated and unvaccinated attendees of an indoor wedding reception in Minnesota. *JAMA Netw Open.* 2022 Feb 1;5(2):e220536. doi: 10.1001/jamanetworkopen.2022.0536. PMID: 35212747

Karlsson M, Lutgring JD, Ansari U, Lawsin A, Albrecht V, McAllister G, Daniels J, Lonsway D, McKay S, Beldavs Z, Bower C, Dumyati G, Gross A, Jacob J, Janelle S, Kainer MA, **Lynfield R**, Phipps EC, Schutz K, Wilson L, Witwer ML, Bulens SN, Walters MS, Duffy N, Kallen AJ, Elkins CA, Rasheed JK. Molecular characterization of carbapenem-resistant Enterobacterales collected in the United States. *Microb Drug Resist.* 2022 Feb 16. doi: 10.1089/mdr.2021.0106. Online ahead of print. PMID: 35172110

Gee JE, Bower WA, Kunkel A, Petras J, Gettings J, Bye M, Firestone M, Elrod MG, Liu L, Blaney DD, Zaldivar A, Raybern C, Ahmed FS, Honza H, Stonecipher S, O'Sullivan BJ, **Lynfield R**, Hunter M, Brennan S, Pavlick J, Gabel J, Drenzek C, Geller R, Lee C, Ritter JM, Zaki SR, Gulvik CA, Wilson WW, Beshearse E, Currie BJ, Webb JR, Weiner ZP, Negrón ME, Hoffmaster AR. Multistate outbreak of melioidosis associated with imported aromatherapy spray. *N Engl J Med.* 2022;386(9):861-868. doi: 10.1056/NEJMoa2116130.

Kamidani S, Garg S, Rolfes MA, Campbell AP, Cummings CN, Haston JC, Openo KP, Fawcett E, Chai SJ, Herlihy R, Yousey-Hindes K, Monroe ML, Kim S, **Lynfield R**, Smelser C, Muse A, Felsen CB, Billing L, Thomas A, Talbot HK, Schaffner W, Risk I, Anderson EJ. Epidemiology, Clinical Characteristics, and Outcomes of Influenza-Associated Hospitalizations in U.S. Children Over 9 Seasons Following the 2009 H1N1 Pandemic. *Clin Infect Dis.* 2022 Apr 19:ciac296. doi: 10.1093/cid/ciac296. Online ahead of print.

Owusu D, Rolfes MA, Arriola CS, Daily Kirley P, Alden NB, Meek J, Anderson EJ, Monroe ML, Kim S, **Lynfield R**, Angeles K, Spina N, Felsen CB, Billing L, Thomas A, Keipp Talbot H, Schaffner W, Chatelain R, Reed C, Garg S. Rates of Severe Influenza-Associated Outcomes Among Older Adults Living with Diabetes-Influenza Hospitalization Surveillance Network (FluSurv-NET), 2012-2017. *Open Forum Infect Dis.* 2022 Mar 16;9(5):ofac131. doi: 10.1093/ofid/ofac131. eCollection 2022 May. PMID: 35450083

Bajema KL, Gierke R, Farley MM, Schaffner W, Thomas A, Reingold AL, Harrison LH, **Lynfield R**, Burzlaff KE, Petit S, Barnes M, Torres S, Snippes Vagnone PM, Beall B, Pilishvili T. Impact of Pneumococcal Conjugate Vaccines on Antibiotic-Nonsusceptible Invasive Pneumococcal Disease in the United States. *J Infect Dis.* 2022 Apr 28;jiac154. doi: 10.1093/infdis/jiac154. Online ahead of print. PMID: 35481950

Delahoy MJ, Ujamaa D, Taylor CA, Cummings C, Anglin O, Holstein R, Milucky J, O'Halloran A, Patel K, Pham H, Whitaker M, Reingold A, Chai SJ, Alden NB, Kawasaki B, Meek J, Yousey-Hindes K, Anderson EJ, Openo KP, Weigel A, Teno K, Reeg L, Leegwater L, **Lynfield R**, McMahon M, Ropp S, Rudin D, Muse A, Spina N, Bennett NM, Popham K, Billing LM, Shiltz E, Sutton M, Thomas A,

Schaffner W, Talbot HK, Crossland MT, McCaffrey K, Hall AJ, Burns E, McMorro M, Reed C, Havers FP, Garg S. Comparison of influenza and COVID-19-associated hospitalizations among children < 18 years old in the United States-FluSurv-NET (October-April 2017-2021) and COVID-NET (October 2020-September 2021). *Clin Infect Dis*. 2022 May 20:ciac388. doi: 10.1093/cid/ciac388. Online ahead of print. PMID: 35594564

Bower WA, Hendricks KA, Vieira AR, Traxler RM, Weiner Z, **Lynfield R**, Hoffmaster A. What is Anthrax? *Pathogens*. 2022 Jun 16;11(6):690. doi: 10.3390/pathogens11060690. PMID: 35745544

Bulens SN, Reses HE, Ansari UA, Grass JE, Carmon C, Albrecht V, Lawsin A, McAllister G, Daniels J, Lee YK, Yi S, See I, Jacob JT, Bower CW, Wilson L, Vaeth E, **Lynfield R**, Vagnone PS, Shaw KM, Dumyati G, Tsay R, Phipps EC, Bamberg W, Janelle SJ, Beldavs ZG, Cassidy PM, Kainer M, Muleta D, Mounsey JT, Laufer-Halpin A, Karlsson M, Lutgring JD, Walters MS. Am Carbapenem-Resistant Enterobacterales in individuals with and without health care risk factors -Emerging infections program, United States, 2012-2015 *J Infect Control*. 2022 May 25:S0196-6553(22)00336-4. doi: 10.1016/j.ajic.2022.04.003. Online ahead of print. PMID: 35909003

Stanton RA, Campbell D, McAllister GA, Breaker E, Adamczyk M, Daniels JB, Lutgring JD, Karlsson M, Schutz K, Jacob JT, Wilson LE, Vaeth E, Li L, **Lynfield R**, Snippes Vagnone PM, Phipps EC, Hancock EB, Dumyati G, Tsay R, Cassidy PM, Mounsey J, Grass JE, Bulens SN, Walters MS, Halpin AL Whole-Genome Sequencing Reveals Diversity of Carbapenem-Resistant *Pseudomonas aeruginosa* Collected through CDC's Emerging Infections Program, United States, 2016-2018. *Antimicrob Agents Chemother*. 2022 Sep 20;66(9):e0049622. doi: 10.1128/aac.00496-22. Epub 2022 Sep 6. PMID: 36066241

Havers FP, Pham H, Taylor CA, Whitaker M, Patel K, Anglin O, Kambhampati AK, Milucky J, Zell E, Moline HL, Chai SJ, Kirley PD, Alden NB, Armistead I, Yousey-Hindes K, Meek J, Openo KP, Anderson EJ, Reeg L, Kohrman A, **Lynfield R**, Como-Sabetti K, Davis EM, Cline C, Muse A, Barney G, Bushey S, Felsen CB, Billing LM, Shiltz E, Sutton M, Abdullah N, Talbot HK, Schaffner W, Hill M, George A, Hall AJ, Bialek SR, Murthy NC, Murthy BP, McMorro M. COVID-19-Associated Hospitalizations Among Vaccinated and Unvaccinated Adults 18 Years or Older in 13 US States, January 2021 to April 2022. *JAMA Intern Med*. 2022 Sep 8. doi: 10.1001/jamainternmed.2022.4299. Online ahead of print. PMID: 36074486

Suvada KA, Quan SF, Weaver MD, Sreedhara M, Czeisler M^É, Como-Sabetti K, **Lynfield R**, Grounder P, Traub E, Amoon A, Ladva CN, Howard ME, Czeisler CA, Rajaratnam SMW, Ekwueme DU, Flannery B, Lane RI. Intent among Parents to Vaccinate Children before Pediatric COVID-19 Vaccine Recommendations, Minnesota and Los Angeles County, California-May-September 2021. *Vaccines (Basel)*. 2022 Sep 1;10(9):1441. doi: 10.3390/vaccines10091441

Bollig ER, Hirsch EB, Bueno I, **Lynfield R**, Granick JL, Gens KD, Rashid A, Harris K, Boeser K, Beaudoin AL. Minnesota One Health Antibiotic Stewardship Collaborative: A Reproducible Approach to Facilitate Antimicrobial Stewardship Progress. *Open Forum Infect Dis*. 2022 Dec 16;9(12):ofac602. doi: 10.1093/ofid/ofac602. eCollection 2022 Dec. PMID: 36540391

Prasad N, Rhodes J, Deng L, Mccarthy N, Moline HL, Baggs J, Reddy SC, Jernigan JA, Havers FP, Sosin D, Thomas A, **Lynfield R**, Schaffner W, Reingold A, Burzloff K, Harrison LH, Petit S, Farley MM, Herlihy R, Nanduri S, Pilishvili T, McNamara LA, Schrag SJ, Fleming-Dutra KE, Kobayashi M, Arvay M. Changes in the Incidence of Invasive Bacterial Disease During the COVID-19 Pandemic in the United States, 2014-2020. *J Infect Dis*. 2023 Feb 1:jiad028. doi: 10.1093/infdis/jiad028. Online ahead of print. PMID: 36723871

Firestone MJ, Holzbauer S, Conelea C, Danila R, Smith K, Bitsko RH, Klammer SM, Gingerich S, **Lynfield R**. Rapid onset of functional tic-like behaviors among adolescent girls-Minnesota, September-November 2021. *Front Neurol*. 2023 Jan 19;13:1063261. doi: 10.3389/fneur.2022.1063261. eCollection 2022.PMID: 36742058

Ko JY, Pham H, Anglin O, Chai SJ, Alden NB, Meek J, Anderson EJ, Weigel A, Kohrman A, **Lynfield R**, Rudin D, Barney G, Bennett NM, Billing LM, Sutton M, Talbot HK, Swain A, Havers FP, Taylor CA; COVID-NET Surveillance Team. Vaccination Status and Trends in Adult COVID-19-Associated Hospitalizations by Race and Ethnicity, March 2020-August 2022. *Clin Infect Dis*. 2023 May 3:ciad266. doi: 10.1093/cid/ciad266. Online ahead of print.PMID: 3713220

Grigg C, Jackson KA, Barter D, Czaja CA, Johnston H, **Lynfield R**, Snippes Vagnone P, Tourdot L, Spina N, Dumyati G, Cassidy PM, Pierce R, Henkle E, Prevots DR, Salfinger M, Winthrop KL, Charles Toney N, Magill SS. Epidemiology of Pulmonary and Extrapulmonary Nontuberculous Mycobacteria Infections in Four U.S. Emerging Infections Program Sites: A Six-Month Pilot. *Clin Infect Dis*. 2023 Apr 21:ciad214. doi: 10.1093/cid/ciad214. Online ahead of print

Nelson Chang NC, Leecaster M, Fridkin S, Dube W, Katz M, Polgreen P, Roghmann MC, Khader K, Li L, Dumyati G, Tsay R, **Lynfield R**, Mahoehney JP, Nadle J, Hutson J, Pierce R, Zhang A, Wilson C, Haroldsen C, Mulvey D, Reddy SC, Stone ND, Slayton RB, Thompson ND, Stratford K, Samore M, Visnovsky LD. Assessing Pathogen Transmission Opportunities: Variation in Nursing Home Staff-Resident Interactions. *J Am Med Dir Assoc*. 2023 May;24(5):735.e1-735.e9. doi: 10.1016/j.jamda.2023.02.018. Epub 2023 Mar 27.PMID: 36996876

Agathis NT, Patel K, Milucky J, Taylor CA, Whitaker M, Pham H, Anglin O, Chai SJ, Alden NB, Meek J, Anderson EJ, Weigel A, Kim S, **Lynfield R**, Smelser C, Muse A, Popham K, Billing LM, Sutton M, Talbot HK, George A, McMorro M, Havers FP; CDC COVID-NET Surveillance Team. Codetections of Other Respiratory Viruses Among Children Hospitalized With COVID-19.*Pediatrics*. 2023 Feb 1;151(2):e2022059037. doi: 10.1542/peds.2022-059037.PMID: 36995184

Holzbauer SM, Schrodtt CA, Prabhu RM, Asch-Kendrick RJ, Ireland M, Klumb C, Firestone MJ, Liu G, Harry K, Ritter JM, Levine MZ, Orciari LA, Wilkins K, Yager P, Gigante CM, Ellison JA, Zhao H, Niezgoda M, Li Y, Levis R, Scott D, Satheshkumar PS, Petersen BW, Rao AK, Bell WR, Bjerk SM, Forrest S, Gao W, Dasheiff R, Russell K, Pappas M, Kiefer J, Bickler W, Wiseman A, Jurantee J, Reichard RR, Smith KE, **Lynfield R**, Scheftel J, Wallace RM, Bonwitt J. Fatal Human Rabies Infection with Suspected Host-mediated Failure of Post-Exposure Prophylaxis Following a Recognized Zoonotic Exposure-Minnesota, 2021. *Clin Infect Dis*. 2023 Mar 29:ciad098. doi: 10.1093/cid/ciad098. Online ahead of print.PMID: 36988328

Rha B, See I, Dunham L, Kutty PK, Moccia L, Apata IW, Ahern J, Jung S, Li R, Nadle J, Petit S, Ray SM, Harrison LH, Bernu C, **Lynfield R**, Dumyati G, Tracy M, Schaffner W, Ham DC, Magill SS, O'Leary EN, Bell J, Srinivasan A, McDonald LC, Edwards JR, Novosad Vital Signs: Health Disparities in Hemodialysis-Associated Staphylococcus aureus Bloodstream Infections - United States, 2017-2020. *S. Am J Transplant*. 2023 May;23(5):676-681. doi: 10.1016/j.ajt.2023.04.001.PMID: 37130620

Magill SS, Sapiano MRP, Gokhale R, Nadle J, Johnston H, Brousseau G, Maloney M, Ray SM, Wilson LE, Perlmutter R, **Lynfield R**, DeSilva M, Sievers M, Irizarry L, Dumyati G, Pierce R, Zhang A, Kainer M, Fiore AE, Dantes R, Epstein L. Epidemiology of Sepsis in US Children and Young Adults. *Open Forum Infect Dis*. 2023 Apr 20;10(5):ofad218. doi: 10.1093/ofid/ofad218. eCollection 2023 May.PMID: 37187509

Kaiser RM, Cash-Goldwasser S, Lehnertz N, Griffith J, Ruprecht A, Stanton J, Feldpausch A, Pavlick J, Bruen CA, Perez-Molinar D, Peglow SR, Akinsete OO, Morris SB, Raizes E, Gregory C, **Lynfield R**. Pharyngeal Co-Infections with Monkeypox Virus and Group A Streptococcus, United States, 2022. *Emerg Infect Dis*. 2023 Jul 12;29(9). doi: 10.3201/eid2909.230469. Online ahead of print. PMID: 37437558

Lapp Z, Octaria R, O'Malley SM, Nguyen TN, Wolford H, Crawford R, Moore C, Snippes Vagnone P, Noel D, Duffy N, Pirani A, Thomas LS, Pattee B, Pearson C, Bulens SN, Hoffman S, Kainer M, Anacker M, Meek J, See I, Gontjes KJ, Chan A, **Lynfield R**, Maloney M, Hayden MK, Snitkin E, Slayton RB. Distinct Origins and Transmission Pathways of *bla_{KPC}* *Enterobacterales* across Three U.S. States. *J Clin Microbiol*. 2023 Jul 13: e0025923. doi: 10.1128/jcm.00259-23. Online ahead of print. PMID: 37439675

Zlotorzynska M, Chea N, Eure T, Alkis Ramirez R, Blazek GT, Czaja CA, Johnston H, Barter D, Kellogg M, Emanuel C, **Lynfield R**, Fell A, Lim S, Lovett S, Phipps EC, Shrum Davis S, Sievers M, Dumyati G, Concannon C, Myers C, McCullough K, Woods A, Hurley C, Licherdell E, Pierce R, Ocampo VLS, Hall E, Magill SS, Grigg CT. Residential social vulnerability among healthcare personnel with and without severe acute respiratory coronavirus virus 2 (SARS-CoV-2) infection in five US states, May-December 2020. *Infect Control Hosp Epidemiol*. 2023 Jul 18:1-7. doi: 10.1017/ice.2023.131. Online ahead of print. PMID: 37462106.

Sumner KM, Masalovich S, O'Halloran A, Holstein R, Reingold A, Kirley PD, Alden NB, Herlihy RK, Meek J, Yousey-Hindes K, Anderson EJ, Openo KP, Monroe ML, Leegwater L, Henderson J, **Lynfield R**, McMahan M, McMullen C, Angeles KM, Spina NL, Engesser K, Bennett NM, Felsen CB, Lung K, Shiltz E, Thomas A, Talbot HK, Schaffner W, Swain A, George A, Rolfes MA, Reed C, Garg S. Severity of influenza-associated hospitalisations by influenza virus type and subtype in the USA, 2010-19: a repeated cross-sectional study. *Lancet Microbe*. 2023 Nov;4(11):e903-e912. doi: 10.1016/S2666-5247(23)00187-8. Epub 2023 Sep 25. PMID: 37769676

Leider JP, Lim S, DeBruin D, Waterman AT, Smith B, Ghimire U, Huhtala H, Zirnhelt Z, **Lynfield R**, Hick JL. Using a web platform for equitable distribution of COVID-19 monoclonal antibodies: a case study in resource allocation. *Front Public Health*. 2023 Nov 28;11:1226935. doi: 10.3389/fpubh.2023.1226935. eCollection 2023. PMID: 38106886

DeSilva MB, Knowlton G, Rai NK, Bodurtha P, Essien I, Riddles J, Mehari L, Muscoplat M, **Lynfield R**, Rowley EA, Chamberlain AM, Patel P, Hughes A, Dickerson M, Thompson MG, Griggs EP, Tenforde M, Winkelman TN, Benitez GV, Drawz PE. Vaccine Effectiveness Against SARS-CoV-2 Related Hospitalizations in People who had Experienced Homelessness or Incarceration - Findings from the Minnesota EHR Consortium. *J Community Health*. 2023 Dec 8. doi: 10.1007/s10900-023-01308-3. Online ahead of print. PMID: 38066221

Duffy N, Li R, Czaja CA, Johnston H, Janelle SJ, Jacob JT, Smith G, Wilson LE, Vaeth E, **Lynfield R**, O'Malley S, Vagnone PS, Dumyati G, Tsay R, Bulens SN, Grass JE, Pierce R, Cassidy PM, Hertzell H, Wilson C, Muleta D, Taylor J, Guh AY. Trends in Incidence of Carbapenem-Resistant Enterobacterales in 7 US Sites, 2016–2020. *Open Forum Infect Dis*. 2023 Dec 5;10(12):ofad609. doi: 10.1093/ofid/ofad609. eCollection 2023 Dec. PMID: 38130598

Famati EA, Ujamaa D, O'Halloran A, Kirley PD, Chai SJ, Armistead I, Alden NB, Yousey-Hindes K, Openo KP, Ryan PA, Monroe ML, Falkowski A, Kim S, **Lynfield R**, McMahan M, Angeles KM, Khanlian SA, Spina NL, Bennett NM, Gaitán MA, Shiltz E, Lung K, Thomas A, Talbot HK, Schaffner W, George A, Staten H, Bozio CH, Garg S. Association of Chronic Medical Conditions With Severe

Outcomes Among Nonpregnant Adults 18-49 Years Old Hospitalized With Influenza, FluSurv-NET, 2011-2019. *Open Forum Infect Dis.* 2023 Nov 29;10(12):ofad599. doi: 10.1093/ofid/ofad599. eCollection 2023 Dec. PMID: 38130595

Doyle JD, Garg S, O'Halloran AC, Grant L, Anderson EJ, Openo KP, Alden NB, Herlihy R, Meek J, Yousey-Hindes K, Monroe ML, Kim S, **Lynfield R**, McMahon M, Muse A, Spina N, Irizarry L, Torres S, Bennett NM, Gaitan MA, Hill M, Cummings CN, Reed C, Schaffner W, Talbot HK, Self WH, Williams D. Performance of established disease severity scores in predicting severe outcomes among adults hospitalized with influenza-FluSurv-NET, 2017-2018. *Influenza Other Respir Viruses.* 2023 Dec 17;17(12):e13228. doi: 10.1111/irv.13228. eCollection 2023 Dec. PMID: 38111901

Havers FP, Whitaker M, Melgar M, Chatwani B, Chai SJ, Alden NB, Meek J, Openo KP, Ryan PA, Kim S, **Lynfield R**, Shaw YP, Barney G, Tesini BL, Sutton M, Talbot HK, Olsen KP, Patton ME; RSV-NET Surveillance Team. Characteristics and Outcomes Among Adults Aged ≥ 60 Years Hospitalized with Laboratory-Confirmed Respiratory Syncytial Virus - RSV-NET, 12 States, July 2022-June 2023. *Am J Transplant.* 2023 Dec;23(12):2000-2007. doi: 10.1016/j.ajt.2023.10.010. Epub 2023 Oct 18. PMID: 37863432

Kojima N, Taylor CA, Tenforde MW, Ujamaa D, O'Halloran A, Patel K, Chai SJ, Daily Kirley P, Alden NB, Kawasaki B, Meek J, Yousey-Hindes K, Anderson EJ, Openo KP, Reeg L, Tellez Nunez V, **Lynfield R**, Como-Sabetti K, Ropp SL, Shaw YP, Spina NL, Barney G, Bushey S, Popham K, Moran NE, Shiltz E, Sutton M, Abdullah N, Talbot HK, Schaffner W, Chatelain R, Price A, Garg S, Havers FP, Bozio CH. Clinical Outcomes of US Adults Hospitalized for COVID-19 and Influenza in the Respiratory Virus Hospitalization Surveillance Network, October 2021-September 2022. *Open Forum Infect Dis.* 2023 Dec 30;11(1):ofad702. doi: 10.1093/ofid/ofad702. eCollection 2024 Jan. PMID: 38269052

Firestone MJ, Thorell L, Kollmann L, Fess L, Ciessau G, Strain AK, Danila R, **Lynfield R**, Holzbauer S; UNEX Surveillance Team. Surveillance for Unexplained Deaths of Possible Infectious Etiologies During the COVID-19 Pandemic-Minnesota, 2020-2021. *Public Health Rep.* 2024 Jan 11:333549231218283. doi: 10.1177/00333549231218283. Online ahead of print. PMID: 38205808

Rudmann KC, Cooper G, Marjuki H, Reingold A, Barnes M, Petit S, Moore A, Harrison LH, **Lynfield R**, Khanlian SA, Anderson BJ, Martin T, Schaffner W, McNamara LA, Rubis AB. Meningococcal Disease in Persons with HIV Reported Through Active Surveillance in the United States, 2009-2019. *Open Forum Infect Dis.* 2024 Jan 4;11(1):ofad696. doi: 10.1093/ofid/ofad696. eCollection 2024 Jan. PMID: 38288348

Policy Statements

Infectious Disease Society of America (Spellberg B, Blaser M, Guidos RJ, Boucher HW, Bradley JS, Eisenstein BI, Gerding D, **Lynfield R**, Reller LB, Rex J, Schwartz D, Septimus E, Tenover FC, Gilbert DN.) Public Policy. Combating Antimicrobial Resistance: Policy Recommendations to Save Lives *Clin Infect Dis.* (2011) 52(suppl 5): S397-S428 doi:10.1093/cid/cir153

Society for Healthcare Epidemiology of America, Infectious Diseases Society of America, Pediatric Infectious Diseases Society. Policy Statement on Antimicrobial Stewardship. *Infect Control Hosp Epidemiol.* 2012; 33:322-327.

Clinical guidance for smallpox vaccine use in a postevent vaccination program. Petersen BW, Damon IK, Pertowski CA, Meaney-Delman D, Guarnizo JT, Beigi RH, Edwards KM, Fisher MC, Frey SE, **Lynfield R**, Willoughby RE. *MMWR Recomm Rep.* 2015 Feb 20;64(RR-02):1-26

National Vaccine Advisory Committee. Overcoming Barriers to Low HPV Vaccine Uptake in the United States: Recommendations from the National Vaccine Advisory Committee: Approved by the National Vaccine Advisory Committee on June 9, 2015. Public Health Rep. 2016 Jan-Feb; 131(1):17-25.

National Vaccine Advisory Committee. A call for greater consideration for the role of vaccines in national strategies to combat antibiotic-resistant bacteria: recommendations from the National Vaccine Advisory Committee: Approved by the National Vaccine Advisory Committee on June 10, 2015. Public Health Rep. 2016; 131:11-6.

Lim S, DeBruin DA, Leider JP, Sederstrom N, **Lynfield R**, Baker JV, Kline S, Kesler S, Rizza S, Wu J, Sharp RR, Wolf SM. Developing an Ethics Framework for Allocating Remdesivir in the COVID-19 Pandemic. Mayo Clin Proc. 2020 Sep;95(9):1946-1954. doi: 10.1016/j.mayocp.2020.06.016. Epub 2020 Jun 20.

Springer SA, Barocas JA, Wurcel A, Nijhawan A, Thakarak K, **Lynfield R**, Hurley H, Snowden J, Thornton A, Del Rio C, Springer SA. Federal and State Action Needed to End the Infectious Complications of Illicit Drug Use in the United States: IDSA and HIVMA's Advocacy Agenda J Infect Dis. 2020 Sep 2;222(Supplement_5):S230-S238. doi: 10.1093/infdis/jiz673. J Infect Dis. 2020.

AAP Policy

Committee on Infectious Diseases. Recommendations for the prevention and control of influenza in children, 2015-2016. Pediatrics. 2015 Oct; 136(4):792-808. doi: 10.1542/peds.2015-2920. Epub 2015 Sep 7.

Committee on Infectious Diseases. Recommendations for serogroup B meningococcal vaccine for persons 10 years and older. Pediatrics. 2016 Sep; 138(3). pii: e20161890. doi: 10.1542/peds.2016-1890

Davies HD, Byington CL; Committee on Infectious Diseases. Parental presence during treatment of Ebola or other highly consequential infection. Pediatrics. 2016 Sep; 138(3). pii: e20161891

Committee on Practice and Ambulatory Medicine; Committee on Infectious Diseases; Committee on State Government Affairs; Council on School Health; Section on Administration and Practice Management. Medical versus nonmedical immunization exemptions for child care and school attendance. Pediatrics. 2016 Sep; 138(3). pii: e20162145. doi: 10.1542/peds.2016-2145.

Edwards KM, Hackell JM; Committee on Infectious Diseases, Committee on Practice and Ambulatory Medicine. Countering vaccine hesitancy. Pediatrics. 2016 Sep; 138(3). pii: e20162146. doi: 10.1542/peds.2016-2146.

Committee on Infectious Diseases. Recommendations for prevention and control of influenza in children, 2016-2017. Pediatrics. 2016. Sep 6. pii: e20162527.

Committee on Infectious Diseases. Recommendations for the prevention and control of influenza in children, 2016-2017. Pediatrics. 2016 Sep 6. pii: e20162527. [Epub ahead of print]

Jackson MA, Schutze GE. Committee on Infectious Diseases. The use of systemic and topical steroids. Pediatrics. 2016; 138 (5). Pii: e20162706.

Maldonado YA, Read JS; Committee on Infectious Diseases. Diagnosis, Treatment and Prevention of Congenital Toxoplasmosis in the United States. *Pediatrics*. 2017 Feb; 139(2). pii: e20163860. doi: 10.1542/peds.2016-3860.

Bernstein HH, Bocchini JA Jr; Committee on Infectious Diseases. Practical approaches to optimize adolescent immunization. *Pediatrics*. 2017 Mar; 139(3). pii: e20164187. doi: 10.1542/peds.2016-4187. Epub 2017 Feb 6.

Bernstein HH, Bocchini JA Jr; Committee on Infectious Diseases. The need to optimize adolescent immunization. *Pediatrics*. 2017 Mar; 139(3). pii: e20164186. doi: 10.1542/peds.2016-4186. Epub 2017 Feb 6.

Committee on Infectious Diseases; Committee on Fetus and Newborn. Elimination of perinatal hepatitis B: Providing the first vaccine dose within 24 hours of birth. *Pediatrics*. 2017 Sep;140(3). pii: e20171870. doi: 10.1542/peds.2017-1870.

Committee on Infectious Diseases. Recommendations for prevention and control of influenza in children, 2017-2018. *Pediatrics*. 2017 Oct;140(4). pii: e20172550. doi: 10.1542/peds.2017-2550. Epub 2017 Sep 4. Erratum in: *Pediatrics* 2017 Dec 29.

Davies HD, Jackson MA, Rice SG; Committee on Infectious Diseases; council on Sports Medicine and Fitness. Infectious diseases associated with organized sports and outbreak control. *Infectious Diseases Associated With Organized Sports and Outbreak Control*. *Pediatrics*. 2017 Oct;140(4). pii: e20172477. doi: 10.1542/peds.2017-2477. Epub 2017 Sep 25

Rathore MH, Jackson MA; Committee on Infectious Diseases. Infection prevention and control in pediatric ambulatory settings. *Pediatrics*. 2017 Nov;140(5). pii: e20172857. doi: 10.1542/peds.2017-2857.

Committee on Infectious Diseases. Recommendations for prevention and control of influenza in children, 2018-2019. *Pediatrics*. 2018 Oct;142(4). pii: e20182367. doi: 10.1542/peds.2018-2367. Epub 2018 Sep 3.

Puopolo KM, Benitz WE, Zaoutis TE; Committee on Fetus and Newborn. Committee on Infectious Diseases. Management of Neonates Born at $\leq 34\frac{6}{7}$ Weeks' Gestation With Suspected or Proven Early-Onset Bacterial Sepsis. *Pediatrics*. 2018 Nov 19. pii: e20182896. doi: 10.1542/peds.2018-2896. [Epub ahead of print]

Puopolo KM, Benitz WE, Zaoutis TE; Committee on Fetus and Newborn. Committee on Infectious Diseases. Management of Neonates Born at $\geq 35\frac{0}{7}$ Weeks' Gestation With Suspected or Proven Early Onset Bacterial Sepsis. *Pediatrics*. 2018 Nov 19. pii: e20182894. doi: 10.1542/peds.2018-2894. [Epub ahead of print]

Committee on Infectious Diseases. Recommendations for Prevention and Control of Influenza in Children 2020-2021. *Pediatrics*. 2020 Oct;146(4):e2020024588. doi: 10.1542/peds.2020-024588. Epub 2020 Sep 8.

Gerber JS, Jackson MA, Tamma PD, Zaoutis TE; AAP Committee on Infectious Diseases and Pediatric Infectious Diseases Society. Policy Statement: Antibiotic Stewardship in Pediatrics. *J Pediatric Infect Dis Soc*. 2021 May 28;10(5):641-649. doi: 10.1093/jpids/piab002

Committee on Infectious Diseases. COVID-19 Vaccine in Children and Adolescents. *Pediatrics*. 2021 Aug;148(2):e2021052336. doi: 10.1542/peds.2021-052336. Epub 2021 May 12.

Editorials

Lynfield R, Hsu H-W and Guerina NG. Screening methods for congenital toxoplasma and risk of disease. *Lancet* 1999; 353: 1899-1900.

Janoff EN, **Lynfield R**. Smallpox: remembrance of things past, or the coming plague? *J Lab Clin Med* 2003;142(4):211-5.

Lynfield R. Lessons from Queens. *J Infect Dis.* 2010; 201:973-5.

Lynfield R, Schaffner W. Can we conquer coqueluche? *J Infect Dis.* 2014; Suppl 1: S1-3. (Guest Co-Editor for Supplement: Prevention and Control of Pertussis April 1, 2014)

Lynfield R and Schaffner W. Emerging Infections Program-20 years of achievements and future prospects. *Emerg Infect Dis.* 2015; 21:1497-8.

Schiffman EK, Neitzel DF, **Lynfield R**. Tick-borne disease prevention: Still no silver bullet. *J Infect Dis.* 2016 Jan 5. pii: jiv776. [Epub ahead of print]

Cartter ML, **Lynfield R**, Feldman KA, Hook SA, Hinckley AF. Lyme disease surveillance in the United States: Looking for ways to cut the Gordian knot. *Zoonoses Public Health.* 2018 Mar;65(2):227-229. doi: 10.1111/zph.12448.

Guest Editor

Prevention and Control of Pertussis. *The Journal of Infectious Diseases.* Guest Editors: **R Lynfield** and W Schaffner April 2014; 209: Supplement 1.

Twenty Years of the Emerging Infections Program. *The Emerging Infectious Diseases Journal.* Guest

Book Editor

Infectious Disease Surveillance (ISBN 1-4051-4266-9), Blackwell Publishers, United Kingdom. Editors: M'ikanatha N, Lynfield R, de Valk H, Van Beneden C (October 2007, May 2013).

Wallace, Maxcy, Roseanau and Last. *Public Health and Preventive Medicine.* 16th Edition. MacGraw Hill Medical. Communicable Disease Editor. November 2021

Current Grant support

Emerging Infections Program (Cooperative Agreement, CDC. Co-PI for EIP Grant: 2010-present; Co-I: 1999-2009) Principal Investigator: MN Active Bacterial Core Surveillance (ABCs), Influenza, RSV, COVID-Net, Healthcare Associated Infections (HAI) at the Community Interface. Invasive bacterial disease including *S. pneumoniae*, group A *Streptococcus*, group B *Streptococcus*, *H. influenzae*, *N. meningitidis*, *S. aureus*; antimicrobial resistance, risk factors, vaccine effectiveness (pneumococcal disease, meningococcal disease, influenza); HAI prevalence, antibiotic use, surveillance for multi-drug resistant Gram-negative bacteria and candidemia.

Pathogen Genomics Centers of Excellence (Cooperative Agreement, CDC. Co- PI) September 30, 2022-27

Past Grant Support

Influenza Incidence Surveillance Project. (Contract with Council of State and Territorial Epidemiologists through CDC Cooperative Agreement. Principal Investigator 2009-2017). Outpatient surveillance for influenza like illness, acute respiratory infection. (*in-kind support*)

Severe Acute Respiratory Infection Surveillance (Contract with Council of State and Territorial Epidemiologists through CDC Cooperative Agreement. Principal Investigator 2013-2016). Inpatient surveillance for severe acute respiratory infection including laboratory characterization (*in-kind support*)

Economic Analysis of Antibiotic Resistance (R-01 C1000209-01; Principal Investigator). CDC 2004-2008. Development of a cost model of resistance using *S. aureus* infection (methicillin-resistant and susceptible) care utilization.

Pandemic Influenza Funding for Competitive Public Health Proposals (TP-08; CDC; Principal Investigator 2008-2009). Five projects. Demonstration project for public engagement as part of public health decision-making, electronic laboratory data exchange, integration of state-based immunization information systems to track pandemic influenza countermeasures, demonstration projects for collaborative planning among healthcare providers, antiviral drug distribution to isolated or quarantined persons.

Other

Protocol Co-chair for INSIGHT Flu002 Study. International observational study on outpatients with influenza, Protocol committee for INSIGHT Flu003 Study. International observational study on inpatients with influenza (NIH sponsored, *in-kind support*). 2009-2018.

Epidemiology and Laboratory Capacity for Infectious Disease, Minnesota (CDC), and Preparedness (CDC) (*in-kind support* for various projects for many years)

University of Minnesota MPH Student Projects

17 students 2010-2022

University of Minnesota PhD Committee

1 student in 2014, 1 in 2020

2 students currently

University of Minnesota Infectious Disease Fellow Primary Mentor

7 fellows 2004-2023

Leap Fellow: July 2023-June 2024

Council of State and Territorial Epidemiologists Applied Epidemiology Fellow Mentor

7 fellows 2009-2022

1 fellow currently

Centers for Disease Control and Prevention Epidemic Intelligence Service Officers (Secondary Supervisor)

12 EIS Officers 2000-present

Centers for Disease Control and Prevention Preventive Medical Fellow Supervisor

1 fellow 2015-2016