

INTERNATIONAL SOCIETY FOR DISEASE SURVEILLANCE Publications, Presentations, and Products (2009-2011)

Publications

- Diamond CC, Mostashari F, Shirky C. Collecting and sharing data for population health: a new paradigm. *Health Affairs* 2009;28(2):455-466. <http://content.healthaffairs.org/cgi/content/full/28/2/454>
- Olson DR, Baer A, Coletta MA, Deyneka L, Gentry R, Ising A, Murray EL, Paladini M, Pendarvis J, Soetebier K, Konty KJ, Schulmann J, Engel J, Gunn J, Rolfs RT, Mostashari F. Searching for better flu surveillance? *Nature Precedings* 2009;3493:1. <http://dx.doi.org/10.1038/npre.2009.3493.1>
- Chapman WW, Dowling JN, Baer A, Buckeridge DL, Cochrane D, Conway MA, Elkin P, Espino J, Gunn JE, Hales CM, Hutwagner L, Keller M, Larson C, Noe R, Okhmatovskaia A, Olson K, Paladini M, Scholer M, Sniegoski C, Thompson D, Lober B. Developing syndrome definitions based on consensus and current use. *J Am Med Inform Assoc.* 2010 Sep-Oct;17(5):595-601. <http://jamia.bmj.com/content/17/5/595.long>
- Baer A, Olson DR, Brownstein JS. International Society for Disease Surveillance Conference 2010: Enhancing the Synergy Between Research, Informatics, and Practice in Public Health - complete supplement. *Emerging Health Threats Journal* 2011, 4:s7. doi: 10.3134/ehthj.10.007.
- Reeder B, Revere D, Olson DR, Lober WB. Perceived Usefulness of a Distributed Community-Based Syndromic Surveillance System: A Pilot Qualitative Evaluation Study. *BMC Research Notes.* (in press).
- Olson DR, Paladini M, Lober WB, Buckeridge DL, for the ISDS DiSTRIbuTE Working Group. Applying a New Model for Sharing Population Health Data to National Syndromic Influenza Surveillance: DiSTRIbuTE Project Proof of Concept, 2006 to 2009. *PLoS Currents: Influenza.* 2011 Jul 8. Available from: <http://knol.google.com/k/donald-r-olson/applying-a-new-model-for-sharing/261w1jjdm6zrb/5>.
- Buckeridge DL, Brownstein JS, Lober WB, Olson DR, Paladini M, Ross D, Finelli L, Kass-Hout T, Buehler J. The Distribute Project: Rapid Sharing of Emergency- Department Surveillance Data During the 2009 Influenza A/H1N1 Pandemic. (in preparation).
- Olson D, Burkom H, Baer A, Paladini M, Anderson J, Gentry R, McIntyre, Brammer L. *Adopting a common influenza-like illness (ILI) syndrome for influenza surveillance across multiple public health jurisdictions.* Submission to MMWR (in review).
- Painter I, Eaton J, Revere D, Lober B, Olson D. *Generation of Prediction Intervals to Assess Data Quality in the Distribute System using Quantile Regression.* Submission to Proceedings of Joint Statistical Meeting. (in review) 2011.
- Burkom H, Olson D, Paladini M, Baer A, Revere D, McIntyre A. *Analytic Evaluation of a Standardization Effort for the DISTRIBUTE Emergency Department Surveillance Project.* Submission to Proceedings of Joint Statistical Meeting. 2011. (in review).
- Kass-Hout, Taha A., Buckeridge DL, Brownstein JS, Xu Z, McMurray P., Ishikawa C, Gunn J, Massoudi, B. *Self-Reported Fever and Measured Temperature in Emergency Department Records used for Syndromic Surveillance.*

Reports

Final Recommendation: Core Processes and EHR Requirements for Public Health Syndromic Surveillance. Available at: http://www.syndromic.org/uploads/files/ISDSRecommendation_FINAL.pdf

Presentations

Distribute

- Mostashari F, Olson DR. *ISDS-DiSTRIBuTE meeting with CDC Biosurveillance Coordinating Unit and CDC Influenza Division: Use of Population-level Syndromic Surveillance for Influenza Monitoring and Response*. Webinar and Teleconference, June 22, 2009.
- Olson DR. *The DiSTRIBuTE project: the case for linking morbidity, mortality and viral surveillance data*. National Institutes of Health, Fogarty International Center, Bethesda, MD, June 24, 2009.
- Olson DR, Brownstein JS. *Information Sharing and the 2009 H1N1 Pandemic*. Preparedness Directorate of the White House National Security Staff, White House Conference Center, Washington, DC, July 10, 2009.
- Revere D, Drum A, Hills RA, Lober WB. *Understanding public health information management strategies that support situational awareness in a Health Information Exchange: An ethnographic approach*. CDC PHIN Annual Conference, Aug 2009. Atlanta GA.
- Hills RA, Lober WB, Dixon B, Grannis S, Lombardo J, Revere D. *Demonstrating interoperability: Biosurveillance in a model Health Information Exchange*. CDC PHIN Annual Conference, Aug 2009. Atlanta GA.
- Painter I, Revere D, Lober WB. *An agile syndromic surveillance technical infrastructure: DiSTRIBuTE*. ISDS 8th Annual Conference, Dec 2009. Miami Beach FL.
- Olson DR. *Data Sharing and DiSTRIBuTE*. Pre-Conference Workshop, Eighth Annual Syndromic Surveillance Conference, ISDS Miami, FL, December, 2009.
- Olson DR, Kass-Hout T, Groseclose S, Brownstein JS & Buckeridge DL. *A Changing Paradigm in Public Health Surveillance: Lessons Learned from the Distribute Project*. Seventh International Conference on Emerging Infectious Diseases, Atlanta, GA, March, 2010.
- Buckeridge DL. *Innovations in Public Health Surveillance: Lessons Learned from the Rapid Expansion of the Distribute Project to Support H1N1 Surveillance*. CSTE, Annual Meeting, Portland, OR. June 2010.
- Olson DR. *The Distribute Project: A Changing Paradigm in Public Health Surveillance*. Surveillance for Decision Making in Emerging Diseases: Lessons from 2009 H1N1 Pandemic Influenza Symposium, Harvard University School of Public Health, Boston, MA, June 2010.
- Lober W, Kass-Hout, T, *An Innovative, Distributed Surveillance Informatics Infrastructure for H1N1 and Beyond*. Council of State and Territorial Epidemiologists, Annual Meeting, Portland, OR, June 2010.
- Buckeridge DL. *Towards Rapid Data Sharing Across Borders for Public Health*. Electronic Infrastructure for the Learning Healthcare System: The Road to Continuous Improvement in Health and Health Care. An Institute of Medicine (IOM) Workshop Series Sponsored by the ONC, Washington, DC, July 27-28, 2010.
- Buckeridge DL. *Public Health Informatics: Enabling Innovations in Surveillance*. Regenstrief Institute Center of Excellence in Public Health Informatics Annual Symposium, Indiana, IN, September 1, 2010.
- Lober WB, Karras BT, Revere D, *Distribute: An innovative tool to support public health surveillance*. Washington State Public Health Association, Joint Conference on Health, Annual Meeting, Yakima, WA, October 2010.
- Revere D, Hills R, Karras BT, Lober WB. *Distribute: An innovative tool to support public health surveillance*. Joint Conference on Health, Oct 2010. Yakima WA.

Olson DR, Baer A, Paladini M, Burkom H, Revere D, Painter I, Lober WB, Brownstein JS, and Buckeridge DL, for the Distribute Research and Evaluation Working Group. *Evaluating a standard influenza-like illness syndrome definition across multiple sites in the distribute project: The 'ILI-s' Pilot*. ISDS Annual Conference, Park City, Utah, December 2010.

Reeder B, Revere D, *Utility Assessment of a Community-Based Syndromic Surveillance System: Preliminary Pilot Results*, International Society for Disease Surveillance Annual Meeting, Park City, Utah, December 2010.

Eaton J, Painter I, Revere D, Lober B, Olson D. *Using Prediction Intervals to Determine the Effect of Timeliness on Accuracy for ILI Ratios*. CSTE, Annual Meeting, Pittsburgh, PA. June 2011.

Lober WB, Olson DR, ISDS Distribute Research and Evaluation Working Group. *Distribute Surveillance System: View of the 2010-2011 Flu Season*. CSTE, Annual Meeting, Pittsburgh, PA. June 2011.

Olson D, Reeder B, ISDS Distribute Research and Evaluation Working Group. *Adopting and Assessing the Use of A Common ILI Syndrome For Monitoring and Estimating Impact from Influenza Across Multiple Sites in the Distribute Project*. CSTE, Annual Meeting, Pittsburgh, PA. June 2011.

Painter I, Olson D, Gifford A, Eaton J, Johnson M, Lober W, Revere D, Reeder B, Baseman B, *Data Quality Monitoring Approaches in the Distribute System*, CSTE, Annual Meeting, Pittsburgh, PA. June 2011.

Paladini M. *The DISTRIBUTE Project, Syndromic Surveillance and the New Paradigm for Public Health Data Sharing and Analysis*. Joint Statistical Meeting. Aug 2011.

Painter I, Eaton J, Revere D, Lober B, Olson D. *Generation of Prediction Intervals to Assess Data Quality in the Distribute System using Quantile Regression*. Joint Statistical Meeting. Aug 2011.

Burkom H, Olson D, Paladini M, Baer A, Revere D. *Analytic Evaluation of a Standardization Effort for the DISTRIBUTE Emergency Department Surveillance Project*. Joint Statistical Meeting. Aug 2011.

Eaton, Julie. *Visualizing Data Quality: Tools and Views*. ISDS 2011 Conference. Atlanta, GA. Dec 2011.

Olson, Don. *Monitoring Winter-Seasonal Acute Gastroenteritis Emergency Department Visits By Age*. ISDS 2011 Conference. Atlanta, GA. Dec 2011.

Olson, Don. *Adopting a Common Influenza-Like Illness Syndrome Across Multiple Health Jurisdictions*. ISDS 2011 Conference. Atlanta, GA. Dec 2011.

Painter, Ian. *Rapid Ad-hoc Cross-Jurisdictional Sharing of Syndrome Data Using Distribute Technology*. ISDS 2011 Conference. Atlanta, GA. Dec 2011.

Painter, Ian. *How Good is Your Data?* ISDS 2011 Conference. Atlanta, GA. Dec 2011.

Meaningful Use

Ising A, *ISDS Recommends Syndromic Surveillance Requirements to Support Meaningful Use*. Healthcare Information Management Systems Society, Annual Conference and Exhibition. Orlando, FL. February 2011.

Kass-Hout T, Ishikawa C, et al. *BioSense Program Redesign, Meaningful Use, and Syndromic Surveillance*. Healthcare Information Management Systems Society, Annual Conference. Orlando, FL. February 2011.

Kass-Hout T, Ishikawa C, et al. *BioSense Program Redesign, Meaningful Use, and Syndromic Surveillance*. International Meeting on Emerging Diseases and Surveillance, Vienna, Austria. February, 2011.

Ishikawa C, Buckeridge D, Kass-Hout T, Lipski N, Minami M, Chertcoff D, Arzt N, Coletta M, *Public-Private Partnership Enables Rapid Development of Syndromic Surveillance Standards for Meaningful Use*. AMIA Public Health Informatics 2011, Orlando, FL, May 2011.

Coletta M, Kass-Hout T. *Syndromic Surveillance Requirements and Meaningful Use*. Council of State and Territorial Epidemiologists, Annual Meeting, Pittsburgh, PA. June, 2011.

Ishikawa C and Roja-Smith L. *The ISDS Recommended Core Syndromic Surveillance Business Process*

Applied: Where can technology enhance your work? Pre-Conference BioSense Workshop. Council of State and Territorial Epidemiologists, Annual Meeting, Pittsburgh, PA. June, 2011.

Ishikawa C, Buckeridge D, Kass-Hout T, *Novel approaches in public health surveillance: Healthmap, BioSense program redesign, meaningful use, and syndromic surveillance*. INFORMS Health IT Meeting, Montreal, CA, June 2011.

Ishikawa C, Gunn J, and Kass-Hout T, *Making the Most of Meaningful Use: Enhancing Surveillance with Syndromic Surveillance Standards*. National Association of City and County Health Officials, Annual Meeting. Hartford, CT. July 2011.

Ishikawa C, Buckeridge D, Chapman W, Day M, Streichert L. *Free-Text Chief Complaint: Why Syndromic Surveillance Needs Unstructured Data*. Public Health Informatics 2011 Conference. Atlanta, GA, August 2011.

Electronic Communications

ISDS Web site (www.syndromic.org)

Distribute Public Site (<http://www.isdsdistribute.org/>)

This site shows Proportion of Emergency Department Visits For Influenza-like Illness (ILI) per Week.

Distribute Restricted Site (<https://isds-auth.cirg.washington.edu/>)

This site shows daily and weekly syndromic and total visit counts and proportions for ED visits for ILI and GI syndromes. It also includes user-generated comparisons, and site-specific details about jurisdictions, their data collection procedures, and the characteristics of their reporting.

Monthly Electronic Newsletters

The Distribute Share is a monthly electronic newsletter that provides the Distribute community with news regarding relevant surveillance topics, ISDS events and announcements, tips for using the Distribute system, ISDS project and committee updates, and national influenza summaries. The share is sent to over 170 people monthly. ISDS also sends a monthly newsletter to its 300+ members.

Distribute Community Forum

This on-line tool for information exchange, collaboration and learning among serves Distribute contributors and project partners. The Forum is a secure, by invitation only space, administered by ISDS. Within the Forum, users are welcome to connect with other surveillance professionals, learn, solve problems, and exchange ideas and innovative tools.

Social Media

Facebook

www.facebook.com/syndromic

Twitter

<http://twitter.com/ISDS>

LinkedIn <http://www.linkedin.com/groups/International-Society-Disease-Surveillance-3966250>

Youtube

<http://www.youtube.com/user/ISDSurveillance>

Video Sharing

Vimeo

<http://vimeo.com/syndromic>

Education & Training

Online Learning

Syndromic Surveillance 101 (SS101)

ISDS, Tufts University School of Medicine, and Tufts Health Care Institute are jointly sponsoring this online course, comprised of a series of 4 modules, which provides an overview of syndromic surveillance.

Each module features an audio presentation, accompanied by slides and followed with an evaluation and post-test. Each module is approximately one-hour in length. This activity has been approved for *AMA PRA Category 1 Credit™*. Contact hours will be awarded for nurses.

Webinars:

2011: Archived 2011 webinars found here: <http://www.syndromic.org/webinars/archives/2011>

Spatial Scanning Tips and Tricks for Practical Outbreak Detection. Daniel B. Neill, PhD, Carnegie Mellon University, 1/27/2011.

Environmental Data Management and its Application to Public Health. Amy Budge, Health Working Group Chair, Earth Data Analysis Center, University of New Mexico; Stan Morain, Health Working Group Secretary, Earth Data Analysis Center, University of New Mexico; Richard Kiang, Health Working Group Co-Chair, NASA Goddard Space Flight Center; Clara Witt, VMD, MPH, Captain, USPHS, and InterAgency Liaison, Armed Forces Health Surveillance Center. 2/24/2011.

Redesigning BioSense to Go Beyond Early Event Detection. Barbara Massoudi, MPH, PhD, Senior Research Health Scientist, Center for the Advancement of Health IT, RTI International and Taha Kass-Hout, MD, MS, Deputy Division Director for Information Science, Centers for Disease Control and Prevention. 2/2011.

Data-driven approach for creating synthetic electronic medical records. Anna Buczak and Linda Moniz. Johns Hopkins Applied Physics Laboratory. 5/24/2011.

Discussions on the June 2011 Report of the National Biosurveillance Advisory Subcommittee (NBAS). Pamela Diaz, CDC. 6/27/2011.

Introduction to IHR: IHR Requirements and Indicators for Monitoring Core Capacity Development. Dr. Stella Chungong, Lead, IHR Monitoring Team, WHO. 6/27/2011

Making the Most of Meaningful Use: Enhancing Surveillance with Syndromic Surveillance Standards. Charlie Ishikawa, ISDS 7/25/11.

Illuminating Impediments to IHR Implementation and Possible Interventions. Dr. Scott McNabb, Emory University. 8/9/2011.

World Trade Center Responders Fatality Investigation Program - Methodologic Issues. Kitty H. Gelberg, PhD, MPH, Chief, Epidemiology & Surveillance Section, Assistant Director, Bureau of Occupational Health, New York State Department of Health. 9/12/2011.

Disaster Epidemiology and Surveillance. Sara J. Vagi, PhD, Epidemiologist, National Center for Environmental Health, Environmental Hazards and Health Effects, Centers for Disease Control and Prevention. 9/26/2011.

Meaningful Use Rules and the PHIN Syndromic Surveillance Messaging Guide. Farzad Mostashari, MD, ScM, National Coordinator for Health Information Technology, Mary Hamilton, RN, Centers for Disease Control and Prevention Message and Vocabulary Team. 10/5/2011.

School Disease Transmission: Has the time come for coordination between monitors and modelers? Gail Potter, PhD, Fred Hutchinson Cancer Research Center Guoyan Zhang, MD, MPH, Miami-Dade County Health Department Anthoni Llau, MPH, Miami-Dade County Health Department. 10/18/2011.

Using Gaming Tools to Train Disease Surveillance Professionals and Investigate Next-Generation Capabilities. Timothy Dasey, PhD, Group Leader, Chemical and Biological Defense, Systems Group, MIT Lincoln Laboratories. 10/27/2011.

2010: Archived 2010 may be found here: <http://www.syndromic.org/webinars/archives/2010>

Distribute Project Overview and Welcome. Charlie Ishikawa, ISDS, 1/2010.

ISDS/CDC MU and Syndromic Surveillance. Taha Kass-Hout, CDC, 1/14/2010.

Distribute Descriptive Data Project Review Anne Gifford, ISDS. 2/18/2010.

Meaningful Use: What it is and why it matters.

Charlie Ishikawa, ISDS, 3/5/2010.

St. Louis Metro Region Walk-Through

Anne Gifford, ISDS, 3/12/2010.

Overview and Public Health Surveillance Utility of Poison Center Data

Jonathan Colvin, Drug and Poison Information Center; Bill Storm, Ohio Department of Health; and Amy Ising, University of North Carolina at Chapel Hill. 3/25/2010.

Integration of reported and syndromic disease system information.

Aaron Kite-Powell, MS, Florida Department of Health, 3/29/2010.

Measures for Site-to-Site Comparison of Distribute Data: a standardized ratio.

Howard Burkom, PhD, Johns Hopkins University Applied Physics Laboratory, 4/1/2010.

GOC Webinar on the Global Epidemiology of Enteric Infections.

Mark A. Miller, MD, Fogarty International Center, US National Institutes of Health, 4/6/2010.

April Literature Review: Using GIS for Surveillance.

Howard Burkom, PhD, Johns Hopkins University Applied Physics Laboratory, 4/22/2010.

GOC Webinar: Developing Strategic Learning Capabilities in Regional Disease Surveillance Networks

Louise Gresham, NTI, Global Health and Security Initiative; Marlo Libel, PAHO; Marjorie Pollack, ProMED, and Beverly Trayner, NTI. 5/17/2010.

Understanding the Spectrum of Emergency Medical Services (EMS) Data Sources and Their Variation By Community. Abey Kuruvilla, Ph.D. , University of Wisconsin-Parkside ; Christopher Olola, Ph.D. , National Academies of Emergency Dispatch and Todd Stout, FirstWatch. 5/27/2010.

Literature Presentation: "The Severity of Pandemic H1N1 Influenza in the United States.

Anne Presanis, Medical Research Council Biostatistics Unit, Cambridge, UK, 6/24/2010.

Rates of Hospital-Acquired Respiratory Illness in Bangladeshi Tertiary Care Hospitals.

Emily Gurley, 7/6/2010.

August Literature Review & Presentation on Seasonal Synchronization of Influenza.

Dr. Elena Naumova, 8/26/2010.

DQ Monitoring Activities Walk-Through

Anne Gifford, ISDS, 10/19/2010.

Developing Syndrome Definitions Based On Consensus and Current Use

Don Olson, MPH, ISDS and Wendy Chapman, PhD, UCSD, 11/18/2010.

Survey Tools

Survey	Date	Audience
Global Outreach 2010 Goals	12/2009	Global Outreach Committee Members
Comment Submission Form: ONCHIT and CMS MU Rules	3/2010	ISDS Members and ISDS Distribute Community
Distribute PAGE Enrollment Form	4/2010	ISDS Distribute Community
Distribute Spring 2010 CoP Meeting	4/2010	ISDS Distribute Community
ISDS Preliminary Recommendations for SS	10/2010	ISDS Members and ISDS Distribute Community
Comment Form: ISDS Provisional Recs for MU Stage 1	11/2010	ISDS Members and ISDS Distribute Community
ISDS Data Quality	2/2011	ISDS Distribute Community
Textual HER Data for Meaningful Use	3/2011	ISDS Members and ISDS Distribute Community
ISDS Research Committee – Member Survey of Topics of Interest	4/2011	ISDS Members