



South Carolina Department of Health and Environmental Control

SCION/MAVEN and ELRs

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System Summary

- SCION=MAVEN
- Meets the standard for CDC National Electronic Disease Surveillance System (NEDSS)
- Disease surveillance and outbreak management
- Currently used for all reportable disease EXCEPT STD/HIV, Tuberculosis, Lead
- Event based
- Web Interface/SQL Server

A Brief History

Years	System	Specifics
1990-2003	National Electronic Telecommunications System for Surveillance (NETSS)	CDC system . Basic demographics, no labs.
2003-2016	Carolina's Health Electronic Surveillance System (CHESS)	CDC funded system , NEDSS compatible, limited customization, no outbreak management.
2016-?	South Carolina Infectious Disease and Outbreak Network (SCION)	Consilience product, NEDSS compatible, extensive customization, outbreak management.

Diseases Collected

- Anthrax
- Campylobacteriosis
- Chikungunya
- Ebola
- Hepatitis (A, B, C, D, E)
- Influenza
- Meningococcal disease
- Mumps
- Pertussis
- Rocky Mt. Spotted Fever
- Salmonella
- Zika
- And many more...

Data Collected For Cases

- Disease
- Patient demographics
- Lab reports
- Contact tracing
- Disease specific questions
 - Risk
 - Symptoms
 - Vaccination
 - Treatment

Data Collected For Outbreaks

- Disease
- Venue details
- Line lists/case counts
- Summary of actions

Disease Specific Questions

- Divided into Question Packages.
- Questions can be turned on or off by disease.
- Skip questions, child questions.
- Answers can trigger other events, such as warnings or deadlines for action.

Example: Lab Report

- Ordering Facility and Provider
- Reporting Facility
- Specimen Collection Date
- Result Date
- Test Results

Example: Salmonella - Risk

- Did you handle baby chicks?
- Did you eat ground chicken?
- Did you travel outside of South Carolina?
- What is the source of your drinking water?
- Do you work on a farm?

Example: Pertussis - Clinical

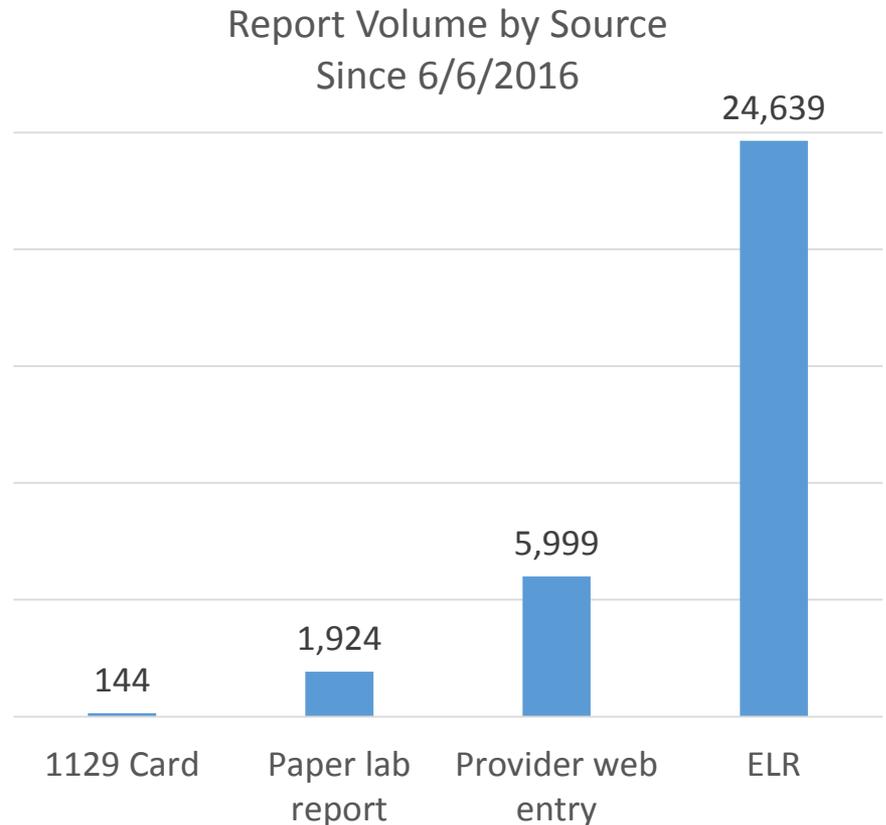
- Symptoms?
 - Cough
 - Whoop
 - Fever
- Chest X-Ray?
- Was the patient hospitalized for this illness?

Data Sources

- Disease Reports
 - Phone calls to regional epi staff.
 - DHEC 1129 forms/paper labs submitted by mail.
 - Provider portal as part of SCIAPPS.
 - Electronic Lab Reporting (ELRs).
- Case/Outbreak investigations by DHEC staff.

Electronic Lab Reporting (ELRs)

- HL7 Message standard
- Rerouted to other systems as needed
- 12 live
- 42 in testing
- Bureau of Labs



Data Limitations

- Data compiled from three platforms.
- Data prior to 2003 has no disease-specific variables or lab reports.
- Case definition changes/strictness of application.
- Data completeness varies by disease and time period.

Data Access

Fill out DHEC form D-1622 and return to:

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