

public health surveillance & notification

HealthSIS



FEATURES

PATIENT MATCHING / IDENTIFICATION

DE-IDENTIFICATION FOR HIPAA COMPLIANCE

CONTENT FILTERING & SURVEILLANCE

TERMINOLOGY MANAGEMENT & STANDARDIZATION

CREATE AND SUBSCRIBE TO DISEASE NOTIFICATIONS

ALERTS VIA EMAIL OR TEXT MESSAGE

AUDIT HISTORY OF REPORTABLE DISEASE FORMS & COMMUNICATIONS

HEALTH SURVEILLANCE INFORMATION SYSTEM

HealthSIS provides hospital infection control staff with the ability to electronically exchange information about reportable disease conditions with the local Public Health Department.

HealthSIS saves time by using data from existing systems and automatically completing sections of the reportable disease form that must be submitted to the Health Department. Public Health Departments can use HealthSIS to request more information on reported diseases, and infection control staff can quickly and easily respond to those requests.

HealthSIS interfaces with clinical care provider systems, public health information systems, and other data systems. It also integrates with CDC's Early Aberration Reporting System, Excel® version (EARS-X) and Google Earth™.

HealthSIS can support multiple hospitals, laboratories, emergency medical services, and other medical facilities within a community to provide community-level situational awareness. HealthSIS can also integrate with state-level systems to provide electronic notification and reporting to all jurisdictional layers.

REPORTABLE DISEASES

HEALTHSIS CAN BE CONFIGURED TO REPORT ON ANY DISEASE THAT CAN BE IDENTIFIED WITHIN CLINICAL DATA. THE LIST BELOW INCLUDES DISEASES THAT ARE CURRENTLY BEING REPORTED USING HEALTHSIS.

- BORDETELLA PERTUSSIS
- CAMPYLOBACTER SPP.
- CRYPTOSPORIDIOSIS
- HEPATITIS A AND C
- ACUTE HEPATITIS B
- NEISSERIA MENINGITIDIS
- SALMONELLA SPP.
- SHIGELLA SPP.
- STREPTOCOCCUS PNEUMONIAE
- STREPTOCOCCUS GROUP A (PYOGENES AND BETA HEMOLYTIC)
- TUBERCULOSIS

OPERATING ENVIRONMENT

HEALTHSIS IS DESIGNED TO OPERATE IN AN OPEN SOURCE OR COMMERCIAL ENVIRONMENT.

SOFTWARE REQUIREMENTS:

- OPERATING SYSTEM:
 - ANY JAVA-ENABLED OPERATING SYSTEM
 - JAVA 6 (FREE)
- APPLICATION/SERVLET CONTAINER:
 - APACHE TOMCAT 6.0.14 (FREE)
- RDBMS:
 - APACHE DERBY (FREE)
 - MS SQL 2005 OR NEWER
 - ORACLE 9i OR NEWER

HARDWARE REQUIREMENTS:

- THE HARDWARE NEEDED TO SUPPORT HEALTHSIS WILL VARY DEPENDING ON MESSAGE VOLUME.

HealthSIS is a flexible tool that can be implemented in a variety of technical environments. It allows for interfacing between Clinical Care Provider and Public Health Information Systems. The extraction and integration technologies route and translate messages between software systems within a clinical environment in both real-time and non-real-time. HealthSIS includes data validation and preparation services to make data consistent and available to data consumers.

The screenshot displays the EPID200 Form interface, which is divided into several sections:

- Demographic Data:** Includes fields for Patient ID, Facility Patient ID, Patient Name (STEOS TESTOSTE), Date of Birth (10/27/1926), Age (84), Gender (Female), Race (White), Ethnic Origin (Non-Hispanic), Address (555 ORIGINAL ADDRESS), City/State/Zip (HIGHLAND HEIGHTS, KY 41076), County (Campbell), and Phone ((859)555-5555).
- Disease Information:** Shows Disease Organism (streptococcusA), Date of Onset (03/14/2011), Date of Diagnosis (03/16/2011), and Chief Complaint (Injury last week, followed by cough chest pain appeared on 3/14). It also includes Highest Temperature (101.8), Days of Diarrhea (0), Hospitalized? (checked), Admissions (Admit Date: 03/16/2011, Discharge Date: 03/17/2011), Death? (unchecked), Hospital (FAC4 CITY ST PHONE), Pregnancy? (unchecked), School/Daycare Info (Name of School:), Outbreak? (unchecked), Attended Public Event? (unchecked), and Event Description.
- Attending Physician:** Fields for First Name, Middle Name, Last Name, Address, City, State, Zip, and Phone.
- Laboratory Information:** A table with columns for Date, Test Type, Laboratory, Specimen Source, and Results. The first row shows: 03/16/2011, STREP A PCR, (FAC4), THROAT, Streptococcus Group A PCR. An "Add Row" button is present.
- Additional Information for Sexually Transmitted Diseases Only:** Includes checkboxes for Method of case detection (Prenatal, Community & Screening, Delivery, Instt. Screening, Reactor, Provider Report, Volunteer) and Disease Stage (Primary/Secondary, Early/Late Latent, Syphilis, Congenital/Other). It also has checkboxes for Site (Genital, Pharyngeal, Anorectal, Chancroid, Gonorrhea, Chlamydia, Chancroid) and Resistance (Penicillin, Tetracycline, Other).
- Treatment and Medication:** Fields for Date of spec. Collection, Laboratory Name, Test Type, Results, Treatment Details Unavailable, Treatment Date, Medication, Dose, and Frequency. An "Add Row" button is present.
- Additional Syphilis Info:** Fields for Was previous Treatment given for this infection? and Date of Previous Treatment.