

poster ABSTRACT



TITLE

New Mexico EPHT System Prototype

THEME

Geospatial Methods

KEYWORDS

environmental health surveillance, system prototype

BACKGROUND

The New Mexico Department of Health is developing an Environmental Public Health Tracking (EPHT) System Plan as part of the national CDC program. This presentation illustrates and defines a prototype for the proposed surveillance System.

OBJECTIVE(S)

The proposed System will be capable of linking health effects data with human exposure and environmental hazards data for surveillance, public health interventions, and environmental health research hypothesis generation. Its objectives are to provide an interactive application for tracking environmental factors and related diseases, and to present information for planning, applying, and evaluating interventions to control or prevent those diseases.

METHOD(S)

The System prototype will be an interactive, Web-based application that will allow users to request data and to perform queries and analyses on integrated environmental and health datasets. It will include toolkits for data exchange, integration, and analysis, including a Geographic Information System for exploring spatially-referenced data. There will also be toolkits for results visualization and reporting. The application will be standards-based, interoperable with other systems, and compliant with the CDC Public Health Information Network and EPA Exchange Network. User access will involve role-based, tiered permissions.

RESULT(S)

The functional prototype helps define, test and refine requirements for the New Mexico EPHT System Plan. It will also demonstrate proof of concept for the system, employing technologies such as PHIN messaging, statistical analyses and interactive mapping.

DISCUSSION/RECOMMENDATION(S)

The prototype application outlined in this presentation incorporates all of the major components of the proposed New Mexico EPHT System and demonstrates the power of Internet-accessible environmental health surveillance.



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