CACI has extensive experience supporting federal government agencies with their public health surveillance needs to provide early indication of disease outbreaks, public health emergencies, and to track population-health problems. Our customers include the Department of Defense and the Department of Health and Human Services’ National Institutes of Health (NIH), the U.S. Centers for Disease Control and Prevention (CDC), and the Agency of Toxic Substances and Disease Registry. Our capabilities include supporting data collection using web and mobile technologies as well as integrating data from disparate sources. We evaluate data as scheduled or in real-time and provide analytics and reporting to support retrospective and prospective surveillance and research.

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**INFORMATION DEPLOYED. SOLUTIONS ADVANCED. MISSIONS ACCOMPLISHED.**
CACI specializes in data harmonization and integration, data exchange preparation and electronic laboratory reporting (ELR), and health data messaging utilizing structures such as HL7 and HL7 Clinical Document Architecture (CDA).

**Areas of Expertise**
- Reportable disease surveillance
- Symptom and syndromic surveillance
- Bioterrorism surveillance
- Disease registries

**Toolkit**
- HL7, HL7 CDA
- Electronic Laboratory Reporting (ELR)
- STARLIMS laboratory information management system import/export and customization
- De-duplication and identity management (MPI)
- HIPAA de-identification
- ETL, SAS, SPSS, Pentaho
- Epi Info™ extensibility and integration. Epi Info is CDC’s tool for epidemiologists seeking rapid data collection instruments, data analysis, visualization, and reporting
- Geocoding and geographic information systems
- Social media

CACI works closely with its customers to identify health-related data sets needed to support public health surveillance and registry activities. Such datasets can provide early indication of disease outbreaks or public health emergencies and assist in the quantification and monitoring of population-health problems. We combine our expertise in electronic message integration, mobile devices, web and cloud systems, big data, and vocabulary/coding normalization with intelligent analytics to support surveillance needs.

Our data capture efforts utilize web- and mobile form-based systems, real-time and batch messaging, and ETL tools. We profile and prepare the data, applying any transformations and business rules needed to ensure data harmonization, quality, and integrity. Visualization of the data is crucial to unlocking the full value of the data assets. We utilize statistical algorithms and interactive charting and mapping to support trend analysis, decision making, and outbreak detection.

Examples of our surveillance activities include our support for the National Healthcare Safety Network surveillance system for the U.S. Centers for Disease Control and Prevention’s (CDC) Division of Healthcare Quality Promotion, which detects Healthcare-Associated Infections (HAIs) in participating healthcare facilities across the United States. We also support the National Electronic Injury Surveillance System – Cooperative Adverse Drug Events Surveillance System, which is used to collect data on adverse drug events in a collaborative effort between CDC, the Consumer Product Safety Council, and the FDA. For the Agency of Toxic Substances and Disease Registry, we developed the National Amyotrophic Lateral Sclerosis (ALS) Registry.

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