

# Data: Elemental to Health

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March 20, 2020

The Honorable Nancy Pelosi  
Speaker of the House  
U.S. House of Representatives  
Washington, D.C. 20515

The Honorable Kevin McCarthy  
Minority Leader  
U.S. House of Representatives  
Washington, D.C. 20515

The Honorable Mitch McConnell  
Majority Leader  
U.S. Senate  
Washington, D.C. 20510

The Honorable Chuck Schumer  
Minority Leader  
U.S. Senate  
Washington, D.C. 20510

Dear Speaker Pelosi, Minority Leader McCarthy, Majority Leader McConnell, and Minority Leader Schumer:

The nation faces an unprecedented challenge to address the COVID-19 global pandemic. Now, more than ever, it is critical to have a strong national public health surveillance system that detects and facilitates immediate responses and containment of emerging health threats. Our members are on the ground fighting the pandemic and working to protect the public's health, but they lack efficient and effective data systems and reporting systems to share information necessary for policy making and to keep the public informed in the way they want and need. To respond to this pandemic and prepare for our next public health crisis, the undersigned organizations request at least \$950 million for data modernization efforts at the CDC with \$250 million made available immediately to support ongoing data infrastructure needs. This funding will provide an essential and immediate injection of resources that must be built on yearly through robust annual funding.

The COVID-19 pandemic has exposed deadly gaps in our nation's public health data infrastructure. The United States currently relies on error-prone, sluggish and burdensome manual and paper-based data exchange methods such as faxing and phone calls to share critical public health data. Simply put, the virus is moving faster than the data. We are watching as our leaders struggle to make critical decisions without accurate data. We must bring our public health data system into the 21<sup>st</sup> Century to have accurate, instantaneous data at our fingertips rather than just out of reach. This funding will build a public health surveillance system that provides automatic, enterprise, interoperable data exchange in real-time, enabling a coordinated and timely response across the health care system. With these investments, we will give sophisticated data analytics tools to public health professionals and policymakers to make smarter and faster decisions that save lives during public health threats like COVID-19.

Below is a table that outlines the challenges COVID-19 has exposed in our current public health data infrastructure and what investment needs to be made to modernize data systems.

<b>COVID-19 Data Challenge</b>	<b>Public Health Data Modernization Solution</b>	<b>Core Public Health Data System for Investment</b>
Data on COVID-19 cases is collected and transmitted by pen and paper, spreadsheets, phone calls, and emails; data is often re-keyed to report critical details from states to the CDC; manual efforts are so time consuming data may not be reported for days despite it being stored in an electronic system	Automated electronic data systems that are interoperable and exchange between state and local health departments and CDC in real-time	National Notifiable Disease Surveillance System
Basic clinical data of COVID-19 patients (symptoms, pregnancy status, hospitalization, ICU status) stored in electronic health records cannot be seamlessly transmitted to public health departments	Real-time, secure, and automated reporting from electronic health records to public health departments; institute a national scale-up	Electronic case reporting
Patients presenting with respiratory illness in emergency departments are not flagged to public health as potential cases, clusters or outbreaks as 30% of emergency departments do not submit any data; urgent care data is almost entirely absent	Predictive analytics and artificial intelligence provide hourly detection and continuous monitoring for potential outbreaks	Syndromic surveillance
Deaths caused by COVID-19 are not linked to clinical data, medical examiner/coroner data systems, or case reporting systems	Interoperable and real-time reporting of death data from multiple sources	Electronic vital records systems
COVID-19 laboratory tests are ordered by phone and via paper requests; specimens are often sent to multiple reference labs and slow data delays test results, which must be shared by phone or on spreadsheets	Web portals for all health care providers to enter and track COVID-19 specimen submission to public health laboratories	Laboratory information management systems
COVID-19 test results sit in clinical Laboratory Information Management Systems, stagnating and are never sent to state and local public health departments to initiate case investigations and contact tracing	Automated test results reporting to public health epidemiologists or disease detectives as soon as they are available	Electronic laboratory reporting of test results from clinical care to public health and from CDC to state and local public health

COVID-19 has made it clear that our antiquated public health data systems are not up to the task. We need a totally integrated, high-speed, networked health system—from laboratories to healthcare facilities to public health authorities—with fast and reliable data in order to protect Americans from health threats. Modernization is not just network upgrades; it is a commitment to building a world-class data workforce and data systems that are ready for the next public health emergency. Significant investments must be made to build real-time, automated, electronic, enterprise public health data systems. American lives depend on it. We look forward to working with you as we continue to address this global pandemic.

Sincerely,

Association of Public Health Laboratories  
Association of State and Territorial Health Officials  
Council of State and Territorial Epidemiologists  
Healthcare Information and Management Systems Society  
National Association of County and City Health Officials  
National Association for Public Health Statistics and Information Systems

CC: Rosa DeLauro, Chair, House Labor, Health and Human Services, Education and Related Agencies  
Tom Cole, Ranking, House Labor, Health and Human Services, Education and Related Agencies  
Roy Blunt, Chairman, Senate Labor, Health and Human Services, Education and Related Agencies  
Patty Murray, Ranking, Senate Labor, Health and Human Services, Education and Related Agencies