



Next Generation Diagnostics System, Increment 1

NGDS Inc 1

Description

The NGDS Family of Systems will provide incremental Chemical Biological Radiological and Nuclear (CBRN) diagnostic capabilities across echelons of care and provide common biological identification materiel solutions across the JPEO-CBD portfolio. The NGDS Increment (Inc) 1 Deployable Component is a U.S. Food and Drug Administration (FDA)-cleared reusable, portable biological pathogen diagnostic and identification system capable of rapidly analyzing clinical and environmental samples. NGDS diagnostic capabilities will be employed in Army and Air Force (Role 3) and Navy (Role 2 and 3) deployable Combat Health Support units, with applicability to routine health care at higher echelons. NGDS Inc 1 will support accurate patient treatment, force health protection and CBRN situational awareness. NGDS Inc 1 will be capable of connecting to CBRN Defense, medical and biosurveillance network applications (e.g., Joint Warning and Reporting Network (JWARN), and Composite Health Care System (CHCS)), if required. The NGDS Inc 1 technology will be adapted for environmental sample analysis applications through collaboration with the Common Analytical Laboratory System (CALS) and the Joint Biological Tactical Detection System (JBTDS) program offices. The NGDS program will establish a transition framework to facilitate the development and transition of diagnostic and environmental assays developed by DoD and Interagency partners. To the extent compatible with NGDS Inc 1 technical approaches, Chemical, Radiological and Toxin diagnostic and environmental assays will be transitioned onto the NGDS Inc 1 instrument when they become mature. NGDS supports the National and DoD policies for Biosurveillance by providing agent identification data and the ability to communicate results electronically. In collaboration with the CALS program for environmental capability requirements, the NGDS Increment 1 will replace the Joint Biological Agent Identification and Diagnostic System (JBAIDS).

Mission

Identify and diagnose biological warfare agents and other pathogens of operational concern to support individual patient treatment decision making, force health protection decision making and CBRN situational awareness.

Capabilities

- Field Analytics
- Medical Surveillance
- Medical Diagnosis

Users

US Navy, US Army, US Air Force

Status

Technology Development - Anticipated Fielding: FY 2015 Q2

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