PUBLIC HEALTH DATA MANAGEMENT SOLUTION (DMS)

A COMPREHENSIVE SOLUTION TO SUPPORT DISEASE SURVEILLANCE AND OUTBREAK MITIGATION

Powered by Casetivity

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Efficient, Practical and Sustainable Public Health Solutions

This pandemic has proven that Public Health organizations need business process management tools that automate key tasks and streamline workflows. Furthermore, with a range of existing tools already in use, organizations need flexible applications compatible with existing systems already in place.

At Strategic Solutions Groups (SSG) we've combined our 17 years of experience in Public Health with state-of-theart technology solutions to build the Public Health Data Management Solution (DMS) – a purpose-built application designed to address today's growing burden on public health. DMS automates data cleansing, validation, and workflow processes, thus streamlining administrative workloads and creating more capacity for increased services and protecting communities. DMS is a flexible application that can be deployed within a matter of days for rapid go-live and immediate results.

Lab result processing is a growing burden on public health systems. High volumes of test data and disparate nonstandard data submissions add to the workload. The DMS application automates data collection and cleansing to standardize it for easier management, analysis and reporting.

File Validation and Onboarding

DMS allows laboratory report data submitters to upload example files to conduct initial content validation before they are allowed to submit data directly to your ELR or HIE system.

- Allow organizations to test file submissions to see results and make corrections
- Track the progress of data submitter file validation

The following screen shot shows the error messages provided to a data submitter after they upload a sample file for validation against state-specific business rules.

				Due Date		Scheduled Date		Assignee	
Review and S	aview and Submit Results						Ē	John Schaeffer 👻	Assign
Original File									
	nd Warning File CC								
Total Record Count	Skipped Records	Clean Records	Records with Errors						
3	0	2	2						
Record Error	rs (must be fixed)	1							
Row	Input Text				Error				
2	Sam WHITE 101 Bat Street					name is required			
	Line 2 of address bostontest 2114 MA 617-983-0000 DATE:1592539200000 NASOPHARYNGEAL 2020- Test1 COVID-19 (Coronavirus Disease 2019), PCR Not Detected Test Facility 1 Warren Medical Facility Dr.								
	Chris Smith 305	n MA 617-983-6800							
Row	Input Text				Error				
2	Sam WHITE 101 Bat Street					of birth is required			
	Line 2 of address bostontest 2114 MA 617-983-0000 DATE:1592539200000 NASOPHARYNGEAL 2020- Test1 COVID-19 (Coronavirus Disease 2019), PCR Not Detected Test Facility 1 Warren Medical Facility Dr.								
			n MA 617-983-6800	support denity thrutten modelar deni	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Row	Input Text				Error				
	Bethtwo Male caucasian testEthnicity DATE:402984000000 Worcester 1601 MA 617-				name is required				
3	9835555[DATE 159253920000]NASOPHARYNGEAL[2020-Test2]COVID-19 (Coronavirus Disease 2019), PCR Detected Test Facility 1 Warren Medical Facility[Dr. Chris Smith]305 South St[Boston MA 617-983- 6800								

Screen allowing data submitters to identify and self-correct any validation errors associated with their files



Ongoing Data Cleansing and Standardization

In addition to supporting the initial one-time file validation, DMS also can be deployed into the production data processing workflow to:

- Easily configure and update validation rules
- Automate data cleansing to standardize the varied data formats submitted and translate local codes to state required codes
- Improve data quality with features like zip code to city validation
- Manage and notify labs that stop sending data
- Utilize robust, machine learning based, patient Deduplication algorithms

display		
Lab Test Lookup		
description		
concepts		
Code	Display Sort C	Order active
RAPID SARS COV 2 AG, QL IA, RESPIRATORY SPECIMEN	94558-4	~
SARS-Cov-2 (COVID-19) - 384 Well Method	MDPH-324	~
SARS_COV	94558-4	~
ANTIGEN	94558-4	~
CORONAVIRUS DISEASE (COVID-19) VIRUS TESTING BY RT-PCR	MDPH-324	~
SARS-COV-2, RT PCR	MDPH-324	~
BD RAPID ANTIGEN	94558-4	~

Screen for managing local to state code set mappings

Enterprise Analytics and Integration

DMS also includes a robust analytics engine and standards-based integrations. So, your organization will be able to easily manage and integrate the solution.

- Realize the benefits of self-service report analytics for situational awareness, decision making and process
 optimization.
- DMS has industry standards-based Application Programming Interfaces (API's) to easily integrate into Enterprise IT environments and with any existing Electronic Laboratory Reporting or Disease Surveillance systems.
- Reduce manual work associated with monitoring and managing data submitter activity.

Dashboard: DPH	Ŧ									
		File Import >	Add Lookups 🗲		Onboard Organization	>	Bulk User	>		
File Review 1	Tasks				My Tasks					
Name	Task	Created Date $~\uparrow~$	Organization	*	Name	Task		Created Date 🛧	Organization	*
System 07/23/2020	Approve File	07/23/2020 8:08 AM	System 🔿		System 12/08/2020	Approve	Records for Download	12/08/2020 9:34 AM	System	•
System 07/23/2020	Approve File	07/23/2020 5:45 PM	System 🕩		System 12/08/2020	Approve	Records for Download	12/08/2020 9:45 AM	System	+
System 07/23/2020	Approve File	07/23/2020 5:59 PM	System 🕩		Access MedLab 01/15/2021	Review a	and Submit Results	01/15/2021 6:25 AM	Access MedLab	+
System 07/23/2020	Approve File	07/23/2020 6:06 PM	System 🔶	-				Rows pe	erpage: 25 👻 1-3	of 3 🔻
Data Files					Records Per Day					
Organization		Most Recen	t File File Count	^	1000		Record	is		
Acutis		12/10/2020	17:46 4	1				A		
CVS		12/08/2020	15:18 1		0.0000000000000000000000000000000000000	50000000000000000000000000000000000000	ADDE STORE S	100-00-000-000-000-000-000-000	1. 22 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	20 ⁰
Nursing Home 1		10/13/2020	20:59 16		1600 ¹⁰¹⁷² 100 ¹⁰¹⁷² 100 ¹⁰¹⁷² 100 ¹⁰¹⁷² 100 ¹⁰¹⁷²	2020-2020-20	10000 20000 20000 20000 20000 20000 20	10 ¹¹ - 20 ⁰¹¹ - 20 ⁰⁰¹ - 20 ⁰⁰¹ - 20 ⁰	1012 1012 1010 1010 1010 1010 1010	201202 101-14
CarewellUC		09/22/2020	15:22 14	•						129

Dashboards and Reporting allow enable easy analytics and workflow monitoring

