



**Massachusetts Department of Public Health**

# **Utilizing Integrated Data to Support the Implementation of Syndemic Programming**

**May 21, 2024**

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# Mission

The mission of the Massachusetts Department of Public Health is to promote and protect health and wellness and prevent injury and illness for all people, prioritizing racial equity in health by improving equitable access to quality public health and health care services and partnering with communities most impacted by health inequities and structural racism.



# Public Health Data Warehouse

Links data sets across state and local government to:

- Help address public health priorities, including:
  - Substance use
  - Maternal and child health disparities
  - COVID-19
  - Effects of climate change on health
- Enable researchers, academics, program planners, and others to address key issues
- Facilitate actionable recommendations for addressing health disparities among high-risk populations and inform policies and programs to reduce morbidity and mortality

# MAVEN: Massachusetts Virtual Epidemiologic Network

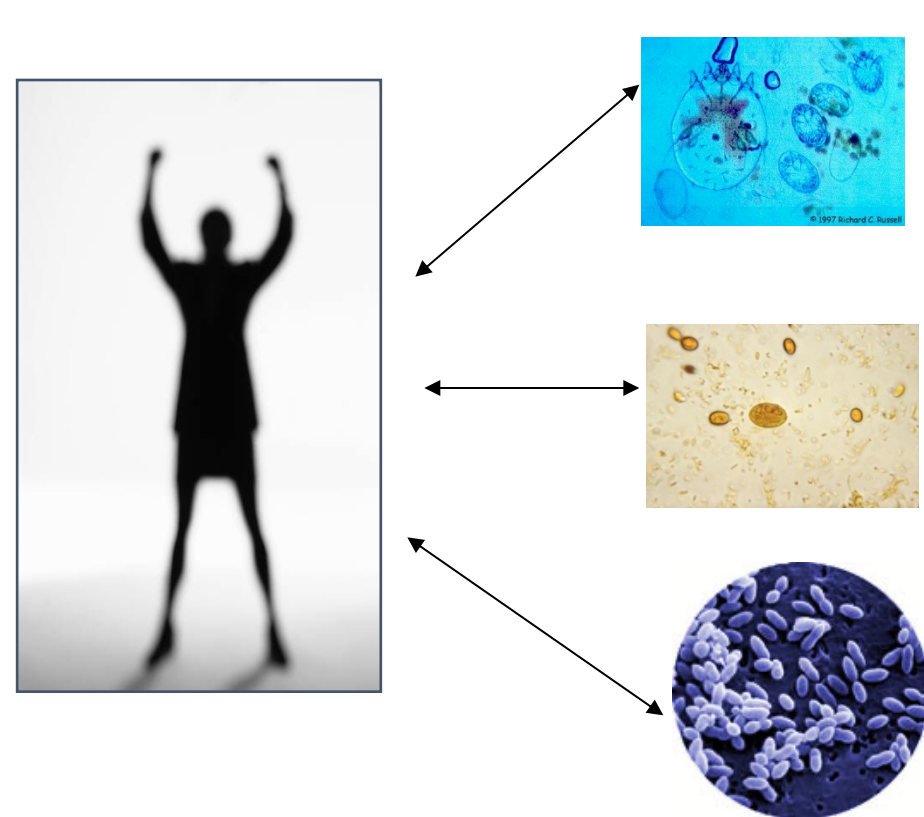
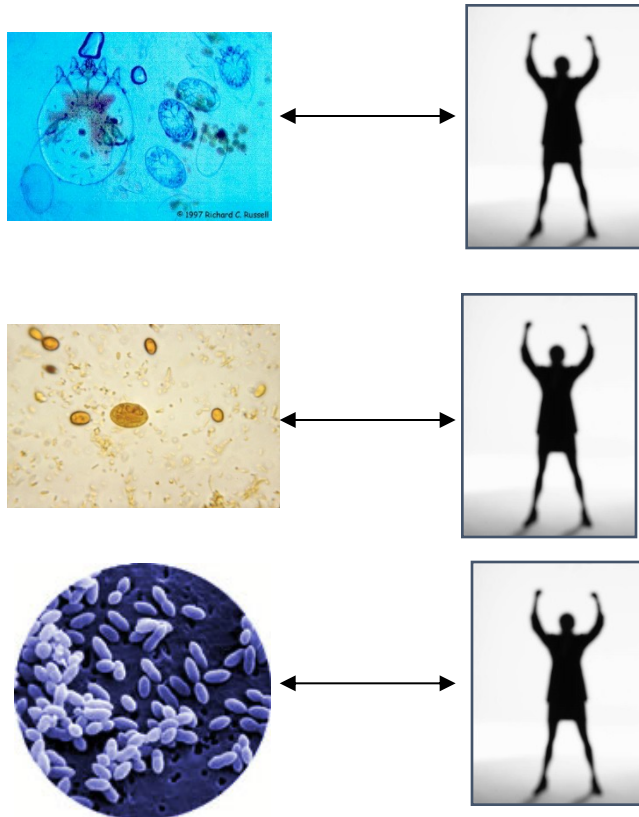


- Secure web-based disease surveillance and case management system
- Epidemiological, clinical, laboratory, and case management data
- Utilized for case investigation and surveillance on approx. 90 reportable infectious diseases
- Role based system

# MAVEN, cont.

**Event-based system**

**v. Person-based system**



# MAVEN: Example Landing Page

**Linda Example Fakename**

Maven Disease Surveillance Suite - TEST

### Event Summary

#### Basic Information

Case ID:	100004187
Event:	Human Immunodeficiency Virus
Name:	Linda Example Fakename
Birth Date:	05/25/1978
Recorded Sex or Gender:	Female
Home Phone:	(617) 872-1654
Investigation Status:	Open
Linked Events/Contacts:	0 (View)
Attachments:	0 (Add)

#### Notifications

**Event/Status/Date/Type Notifier 3**

Event Status: Suspect  
Event Date: 05/08/2024  
Event Type: Report Date

**Disease Stage 1**

Disease Stage: 900 - HIV

**Concerns 1**

**Please answer Clinician Reported HIV Status (Field Staff Identified) (Clinical) before completing the investigation**

**Person Summary 1**

Patient Summary

**Person Summary 1**

Out Of State Case Report For STD

**Person Summary 1**

HIV Patient Summary

**Person Summary 1**

Address Summary

**Person Summary 1**

Link Type Summary

**STD Cross Product Notifier 3**

**Chlamydia 100004188, dated 05/08/2024** (View)  
**Gonorrhea 100004189, dated 05/08/2024** (View)  
**Syphilis 100004190, dated 05/08/2024** (View)

# Monthly Integrated Testing and Linkage Services Summary

Date generated: 3/28/2024

Massachusetts Department of Public Health, Office of Health Care Planning  
Monthly Integrated Testing and Linkage Services Summary

Results received through: 3/24/2024

FY24 Missing Service Forms = 386

## AGGREGATE

		HIV Tests		HCV Tests		Chlamydia Tests		Gonorrhea Tests		Syphilis Tests	
		Total	New +**	Total	NAT +	Total	Positive	Total	Positive	Total	Positive
All Sites	FY 2023	57,740	207 (0.4%)	34,992	2012 (5.7%)	33,255	2345 (7.1%)	33,253	1539 (4.6%)	35,005	4001 (11.4%)
	FY 2024	38,210	139 (0.4%)	21,723	1214 (5.6%)	21,106	1232 (5.8%)	21,102	1015 (4.8%)	21,737	2356 (10.8%)

		Fiscal Year 2024***												
		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
HIV	ITLS^	5,385	5,864	5,060	5,592	5,284	4,798	5,872	0	0	0	0	0	37,855
	SPHL	3,145	3,204	2,855	3,099	2,897	2,536	3,090	0	0	0	0	0	20,826
	New +	16	19	17	28	22	19	18	0	0	0	0	0	139
HCV	ITLS	3,188	3,322	2,965	3,220	2,942	2,642	3,087	0	0	0	0	0	21,366
	SPHL	3,145	3,204	2,855	3,099	2,897	2,536	3,090	0	0	0	0	0	20,826
	NAT+	170	173	161	177	183	144	206	0	0	0	0	0	1,214
CHL	ITLS	3,115	3,237	2,816	3,141	2,892	2,647	3,002	0	0	0	0	0	20,850
	SPHL	2,999	3,108	2,686	3,002	2,821	2,494	2,946	0	0	0	0	0	20,056
	POS	194	163	191	170	181	166	167	0	0	0	0	0	1,232
GON	ITLS	3,115	3,237	2,818	3,140	2,889	2,646	3,000	0	0	0	0	0	20,845
	SPHL	2,999	3,108	2,686	3,002	2,821	2,494	2,946	0	0	0	0	0	20,056
	POS	153	151	155	158	143	121	134	0	0	0	0	0	1,015
SYP	ITLS	3,192	3,326	2,964	3,221	2,944	2,651	3,089	0	0	0	0	0	21,387
	SPHL	3,145	3,204	2,855	3,099	2,897	2,536	3,090	0	0	0	0	0	20,826
	POS	361	335	325	362	289	289	395	0	0	0	0	0	2,356

\*Estimated number of individual testing events with errors in the barcode; these lab results, thus, cannot match to a service form, or vice versa. This number is independent of the number of missing service forms.  
 \*\*Number of new HIV positive cases is an overestimate for agencies/sites that have not submitted all of their service forms, or did not indicate whether a client has previously been tested for HIV on the service form  
 ^ITLS = Testing & Linkage, abbreviation for the Integrated Testing and Linkage Services form



# Data to Care: Improving Linkage to HIV and HCV Treatment

Table: Among new HIV positives, care status indicated on ITLS form and viral loads identified in surveillance data (MAVEN) within 90 days of test date.

*Massachusetts Department of Public Health, Office of Health Care Planning  
Integrated Testing and Linkage Services (ITLS), HIV/HCV Linkage to Care Report  
TEST  
July 1, 2022 - June 30, 2023  
Data Current as of: 09OCT23; Date Generated: 30OCT23*

<i>HIV care status</i>	<i>Viral load within 90 days of test date</i>					
	<i>Total New HIV positive</i>		<i>No VL in 90 days</i>		<i>VL in 90 days</i>	
	<i>N</i>	<i>%</i>	<i>N</i>	<i>%</i>	<i>N</i>	<i>%</i>
Referred, attended	12	80.0%	2	40.0%	10	100.0%
Referred, no follow-up	1	6.7%	1	20.0%	0	0
Declined	1	6.7%	1	20.0%	0	0
Missing	1	6.7%	1	20.0%	0	0
<b>TOTAL</b>	<b>15</b>	<b>100.0%</b>	<b>5</b>	<b>100.0%</b>	<b>10</b>	<b>100.0%</b>

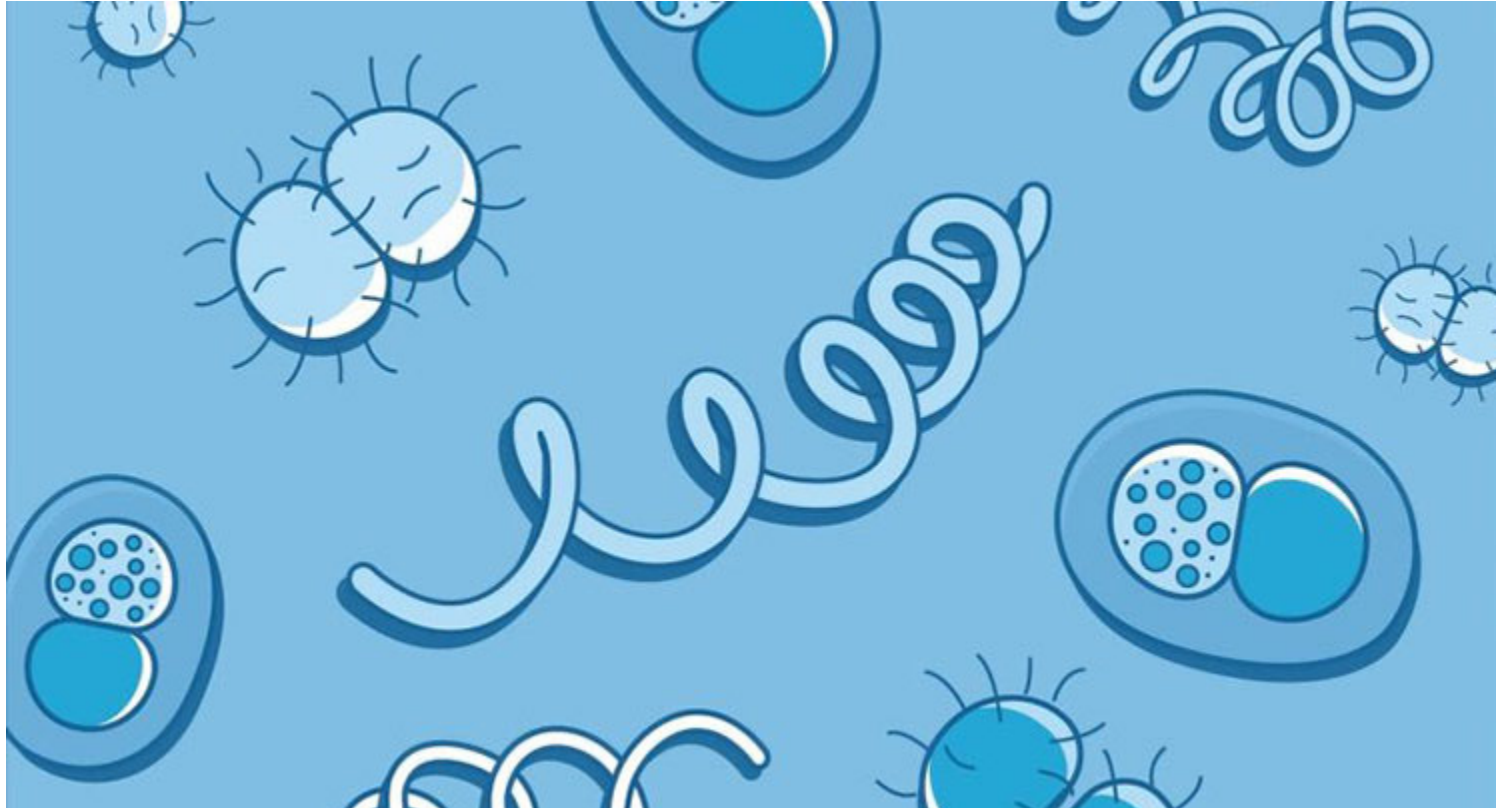


# Data to Care: Improving Linkage to HCV Treatment

**Table 3. Care status indicated on ITLS form and any lab identified in surveillance data (MAVEN) within 90 days of test date, among HCV NAT positive tests.**

<i>HCV care status</i>	<i>RNA or Genotype within 90 days of test date</i>							
	<i>Total HCV NAT positive</i>		<i>No lab</i>		<i>Lab in 90 days</i>		<i>No match in MAVEN</i>	
	<i>N</i>	<i>%</i>	<i>N</i>	<i>%</i>	<i>N</i>	<i>%</i>	<i>N</i>	<i>%</i>
Referred, attended	183	27.0%	122	25.3%	60	31.7%	1	16.7%
Referred, did not attend	34	5.0%	25	5.2%	9	4.8%	0	0
Referred, no follow-up	50	7.4%	38	7.9%	11	5.8%	1	16.7%
Already in care for HCV	34	5.0%	21	4.3%	13	6.9%	0	0
Referred, lost to follow-up	3	0.4%	2	0.4%	1	0.5%	0	0
Declined	276	40.7%	209	43.3%	63	33.3%	4	66.7%
Don't know	52	7.7%	33	6.8%	19	10.1%	0	0
Missing	46	6.8%	33	6.8%	13	6.9%	0	0
<b>TOTAL</b>	<b>678</b>	<b>100.0%</b>	<b>483</b>	<b>100.0%</b>	<b>189</b>	<b>100.0%</b>	<b>6</b>	<b>100.0%</b>

# Q&A



# Connect with DPH



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