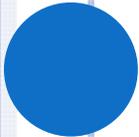


# **MDSS UPDATES**

**14<sup>th</sup> Annual Communicable Disease Conference**

**May 15, 2014**

**Edward F. Hartwick – MDCH**



## MDSS SYSTEM USE STATISTICS

<b>Year</b>	<b>Referrals</b>	<b>Individual Case Reports</b>	<b>Transactions</b>	<b>Unique User Log Ins</b>
2007	83,876	77,686	400,000	----
2008	136,057	104,616	429,848	783
2009	160,326	119,843	618,731	893
2010	158,225	113,765	697,258	906
2011	213,639	159,185	803,092	982
2012	211,150	146,069	1,018,304	1,126
2013	185,362	126,812	1,059,023	1,155

# MDSS ELECTRONIC MESSAGING

LABORATORY	2006	2007	2008	2009	2010	2011	2012	2013
MDCH REGIONAL LAB – LANSING	16,407	7,039	13,589	20,723	16,245	18,567	22,305	20,905
DETROIT MEDICAL CENTER LAB	1,167	8,652	8,758	8,882	9,816	10,147	8,981	7523
MDCH REGIONAL LAB - DETROIT	1,206	1,323	2,040	1,596	1,662	1,714	369	12
ARUP LABORATORIES	2,100	3,656	2,678	3,314	3,498	3,209	5,680	5621
GARCIA LABORATORIES	--	--	483	--	--			8
HURLEY HOSPITAL LAB (3/09)	--	--	--	3,024	3,792	5,031	4,448	2874
MAYO CLINICAL LABS (8/09)				1,548	6,668	3,985	4,317	3375
LABCORP (9/09)				1,226	3,375	4,225	4,957	5149
MDCH REGIONAL LAB – OAKLAND (9/09)				863				
MDCH REGIONAL LAB - PONTIAC					2,823	2,552	2,188	2106
MDCH REGIONAL LAB - SOUTHFIELD					425	676	552	758
MDCH REGIONAL LAB - KALAMAZOO					340	1,359	127	123
MDCH REGIONAL LAB - UPPER PENINSULA					57	0	0	0
MDCH REGIONAL LAB - KENT COUNTY					412	1,757	268	204
MDCH REGIONAL LAB - SAGINAW COUNTY					308	1,632	3,189	2288
SPARROW LABS (2/11)						1,735	2,281	2161
SPARROW LABS – ST LAWRENCE LAB (2/11)						2,104	2,712	2965
QUEST DIAGNOSTIC – AUBURN HILLS (8/11)						4,969	12,510	16420
McLAREN OAKLAND HOSPITAL (9/13)								16
McLAREN CENTRAL MI HOSPITAL (9/13)								5
McLAREN MACOMB HOSPITAL (9/13)								27
McLAREN FLINT HOSPITAL (9/13)								27
McLAREN BAY HOSPITAL (9/13)								26
McLAREN GREATER LANSING HOSPITAL (9/13)								7
Total	20,880	20,670	27,548	41,176	49,421	63,662	74,884	72600

## ELR PROVIDERS

- Meaningful Use has helped to provide incentive for more hospital labs to send electronic lab results
- Recent ELR Adds:
  - McLaren Micro Lab (Sep 2013)
  - Borgess, Beaumont, Spectrum (May 2014)
  - These added 17 labs to ELR reporting in MDSS, bringing our total to 43
- More Labs in Testing Now
  - 65+ more labs are currently in various stages of testing with MDCH



## RECENT UPDATES

- Database Server Replacement – Nov. 16, 2013
- MDSS 4.1 – Dec. 4, 2013
  - Updated Forms – Hepatitis, Listeria, Babesiosis, Aggregate Disease, Influenza, HIV
  - View Only Button
  - Search on Pre-Merged Investigation ID
  - Report 5 (Diseases YTD by Geography) Compares to Previous Year
  - Campylobacter, Guillain-Barre, CJD can be closed as suspect cases
- MDSS 10<sup>th</sup> Anniversary – June 13th



# UPCOMING MDSS ENHANCEMENTS

- MDSS 4.2 – Late Summer/Early Fall 2014
  - Patient Matching Enhancements
    - Name matching update, name transposition handled better, less 100% matches
  - Manual Lab Entry Redesign
  - Search Dedup Queue
  - Sort by Jurisdiction
  - Hepatitis Holding Area
  - EHR to MDSS Case Report Transmission – Possibly in different version
  - Replacement of the MDSS Application Server (only Database Server has been done so far)



# MANUAL LAB ENTRY REDESIGN

## ○ Enhancement for Manual Labs

- Goal: Improve data quality by offering the user to select values from a list instead of using free text.
- Fields affected: Lab Test Name, Lab Result Test Name, Laboratory Facility Name

Sample of Syphilis Test Names in Data	TEST NAMES FROM VADS TABLES		
	CODE	DESCR	CDC preferred designation
RPR (VDRL)	5292-8	VDRL Ser QI	Reagin Ab [Presence] in Serum by VDRL
RPR/VDRL/TPPA	5291-0	VDRL Ser-aCnc	Reagin Ab [Units/volume] in Serum by VDRL
RPR, VDRL AND TPPA	5290-2	VDRL CSF QI	Reagin Ab [Presence] in Cerebral spinal fluid by VDRL
VDRL & TPPA	5289-4	VDRL CSF-aCnc	Reagin Ab [Units/volume] in Cerebral spinal fluid by VDRL
Reagin Ab/Syphilis VDRL	51783-9	VDRL BldCo QI	Reagin Ab [Presence] in Cord blood by VDRL
VDRL AND TPPA	50690-7	VDRL Ser-Titr	Reagin Ab [Titer] in Serum by VDRL
VDRL	47235-7	VDRL XXX-Titr	Reagin Ab [Titer] in Unspecified specimen by VDRL
VDRL CSF	31146-4	VDRL CSF-Titr	Reagin Ab [Titer] in Cerebral spinal fluid by VDRL
VDRL, CSF	21030-2	VDRL Ser Donr QI	Reagin Ab [Presence] in Serum from donor by VDRL
VDRL TITR (CSF)	14904-7	VDRL XXX QI	Reagin Ab [Presence] in Unspecified specimen by VDRL
TPPA/VDRL	20507-0	RPR Ser QI	Reagin Ab [Presence] in Serum by RPR
VDRL SER QL/VDRL, SERUM	31147-2	RPR Ser-Titr	Reagin Ab [Titer] in Serum by RPR
VDRL CSF 1:8 RPR 1:1024	47360-3	RPR Ser Donr QI	Reagin Ab [Presence] in Serum from donor by RPR
RPR AND FTA ABSORPTION AND VDRL CSF	20508-8	RPR Ser-aCnc	Reagin Ab [Units/volume] in Serum by RPR
Treponema pallidum (VDRL) Titer, CSF	41122-3	T pallidum Ab XXX-aCnc	Treponema pallidum Ab [Units/volume] in Unspecified specimen
VDRL and Treponemal AB	41163-7	T pallidum DNA XXX QI PCR	Treponema pallidum DNA [Presence] in Unspecified specimen
Reagin Ab/RPR	47238-1	T pallidum IgG Ser QI EIA	Treponema pallidum IgG Ab [Presence] in Serum by Immur
TPPA/RPR	17726-1	T pallidum IgG Ser QI IF	Treponema pallidum IgG Ab [Presence] in Serum by Immur
RPR Qualitative	40680-1	T pallidum IgM Ser QI IB	Treponema pallidum IgM Ab [Presence] in Serum by Immu

# MANUAL LAB ENTRY REDESIGN

- Lab Test Name
  - Currently a free text field
  - Makes it difficult to automatically associate with a specific condition or use in other ways needed for doing counts or analysis.

Case Reporting Address History Demographics Referrer Lab Reports Notes Pers

Patient GODIVA, TRUFFLES Locked by HANS

Lab Order Information

Test Name\* :

Lab Report Date (mm/dd/yyyy) :  

Ordering Provider

First :  Last :



# MANUAL LAB ENTRY REDESIGN

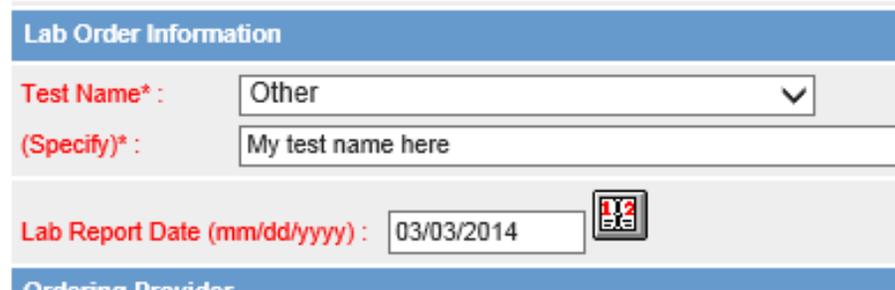
- New user interaction: select from a list of tests relevant to case condition



Lab Order Information

Test Name\* : Entamoeba Ab Ser QI

- Tests will include test codes useful in data analysis
- If needed test not in the dropdown list, then user selects “Other” and the “Specify” text field appears for the user to enter free text



Lab Order Information

Test Name\* : Other

(Specify)\* : My test name here

Lab Report Date (mm/dd/yyyy) : 03/03/2014

Ordering Provider



# MANUAL LAB ENTRY REDESIGN

- Select from a list of laboratories
- Lab report will be associated with an existing facility in the Organization table
- If user cannot find the facility in the dropdown list, then select “Other” and the “Specify” text field appears for the user to enter the free text

Sample of Laboratory Facilities in Data	Laboratory Facilities from New List	Address		CLIA number
detroit bio lab	Detroit Bio Medical Labs	23955 Freewa	Farmington Hills, Tel: (248) 471-4111	23D0363260
detroit Bio Lab	Detroit Bio Medical Labs Bellaire	307 E Cayuga	Bellaire, MI, 49611 Tel: (231) 536-2930	23D0976621
detroit bio Lab				
Detroit Bio Lab, INC				
DETROIT BIO LABORATORIES				
DETROIT BIO MED LAB				
detroit bio med lab				
Detroit Bio Med Lab				
Detroit Bio Med Laboratories				
Detroit Bio Med. Laboratories				
Detroit Bio Med. Labs				
DETROIT BIO MEDIACAL				
DETROIT BIO MEDIACAL LAB				
Detroit Bio Medial				

**Laboratory Information**

**Name\*** :

**(Specify)\*** :

Street :

City :  County :

State :

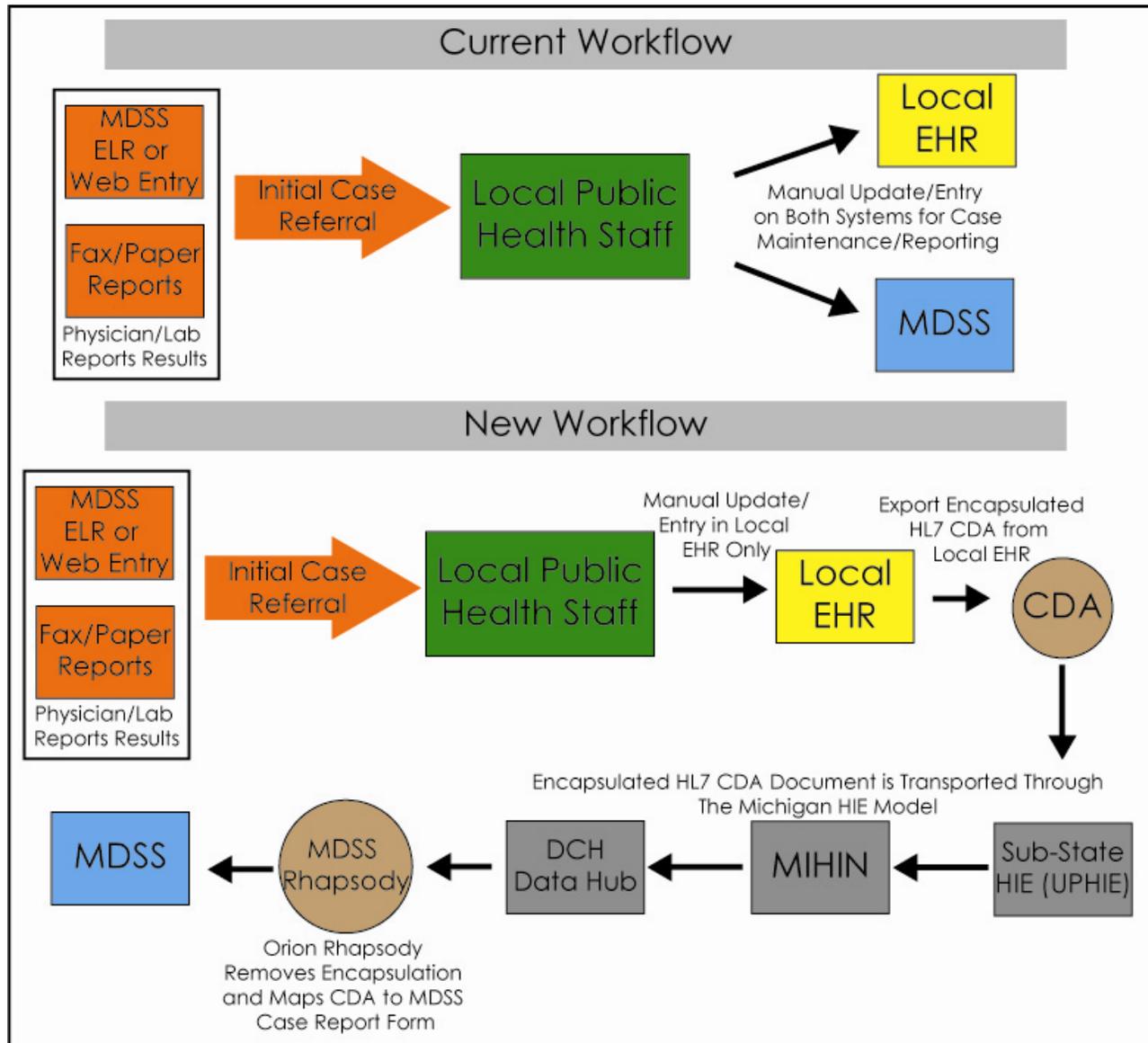
Phone number :

## CASE REPORT FORMS TO MDSS

- Purpose is to save time on dual entry between local EHR and MDSS
- Currently working on this with NetSmart
- Goal is to build standardized functionality into MDSS and use templates so that process can be replicated with any EHR in the future
- Deduplication of Case Report Form will still need to happen



# CASE REPORT FORMS TO MDSS



# QUESTIONS?

- Thank you!

