Virtual Hybrid Master Patient Index (VMPI) Proof-of-Concept (POC) for Huntington Medical Foundation

August 2018

(Best viewed in slideshow mode)

VMPI POC Goals

1. Match patients across multiple operational/transactional healthcare data sources
2. Develop a distributed virtual master patient index (VMPI)
3. Query the VMPI to locate, report and analyze all patient data in multiple data sources

Requirements:

i. Leave data in sources, but not interfere with applications running on these data sources
ii. Seamlessly integrate master patient data with operational/transactional data
iii. Provide a browser-based tool to query, and present results and interactive link visualization

Key Components and Processes (1 of 2)

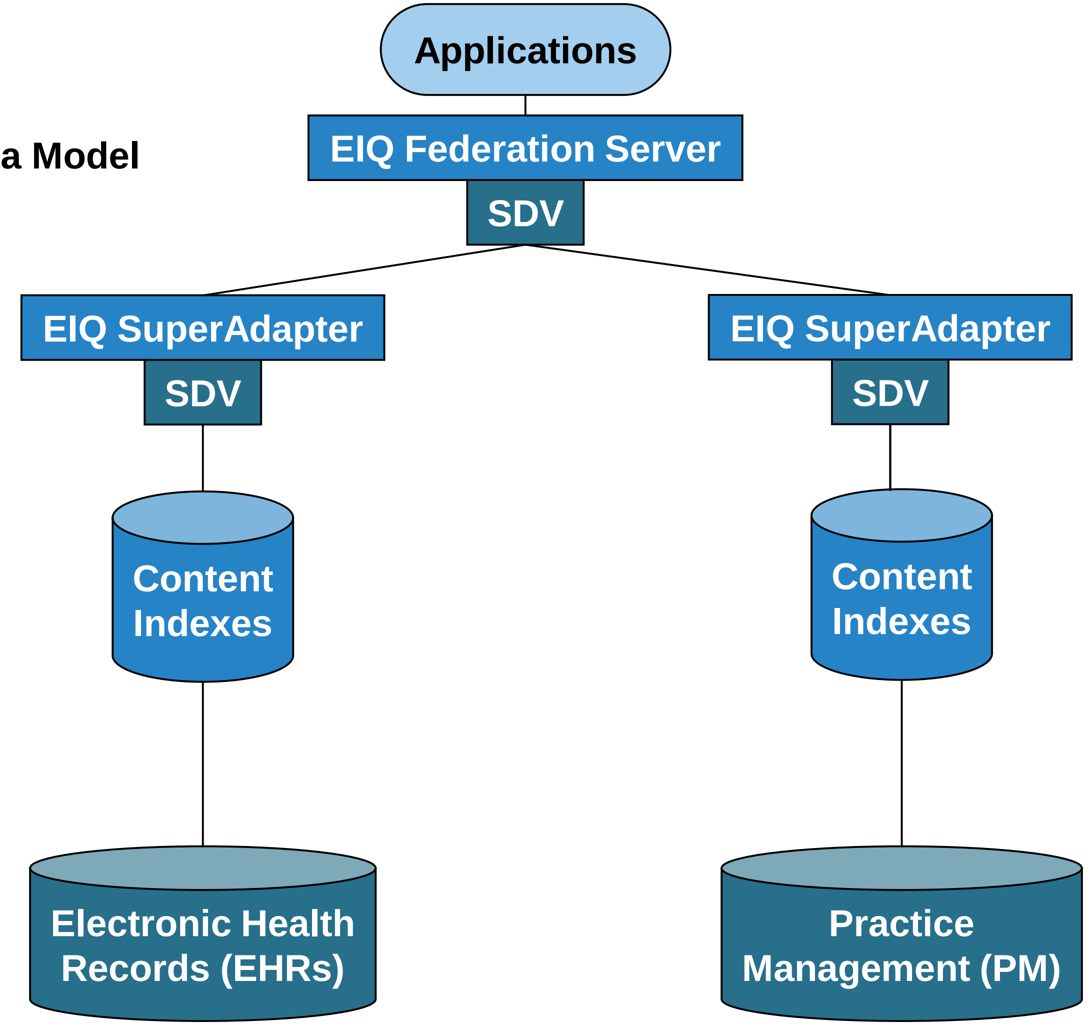
- Two data sources:
  - Allscripts Electronic Health Records (EHRs)
  - Allscripts Practice Management (PM)
- Data quality applied during indexing and results retrieval, e.g., for ADDRESS, EMAIL, PHONE and DOB
- Content indexes
- Link Indexes™ to capture relationships among data within and across data sources
  - Simple entities directly connected, e.g., ADDRESS, EMAIL and PHONE
  - Complex entities subject to a composite weighted probabilistic match process, i.e., for POC, PATIENT (a type of PERSON entity)

Key Components and Processes (2 of 2)

- Master data merge process determines best data for PATIENT
  - A single master patient record with a unique PATIENT_ID is created or updated
- Master patient record or update passed back to each of the data source adapters containing the PATIENT, and the local VMPI created or updated
  - Local adapter master data record created or updated
  - If not already tagged, matched PATIENT identification record indexes tagged with the unique PATIENT_ID
- Simple SQL queries to use the distributed VMPI to isolate and retrieve any and all PATIENT-related data in sources
- Highly interactive visualization with sections for queries, link graphs, reports, stats and original documents

Standard SmartData Fabric® (SDF) System Configuration

SDV = Standard Data View
aka Standard/Common Data Model



Applications

EIQ Federation Server

SDV

EIQ SuperAdapter

SDV

Content Indexes

Electronic Health Records (EHRs)

EIQ SuperAdapter

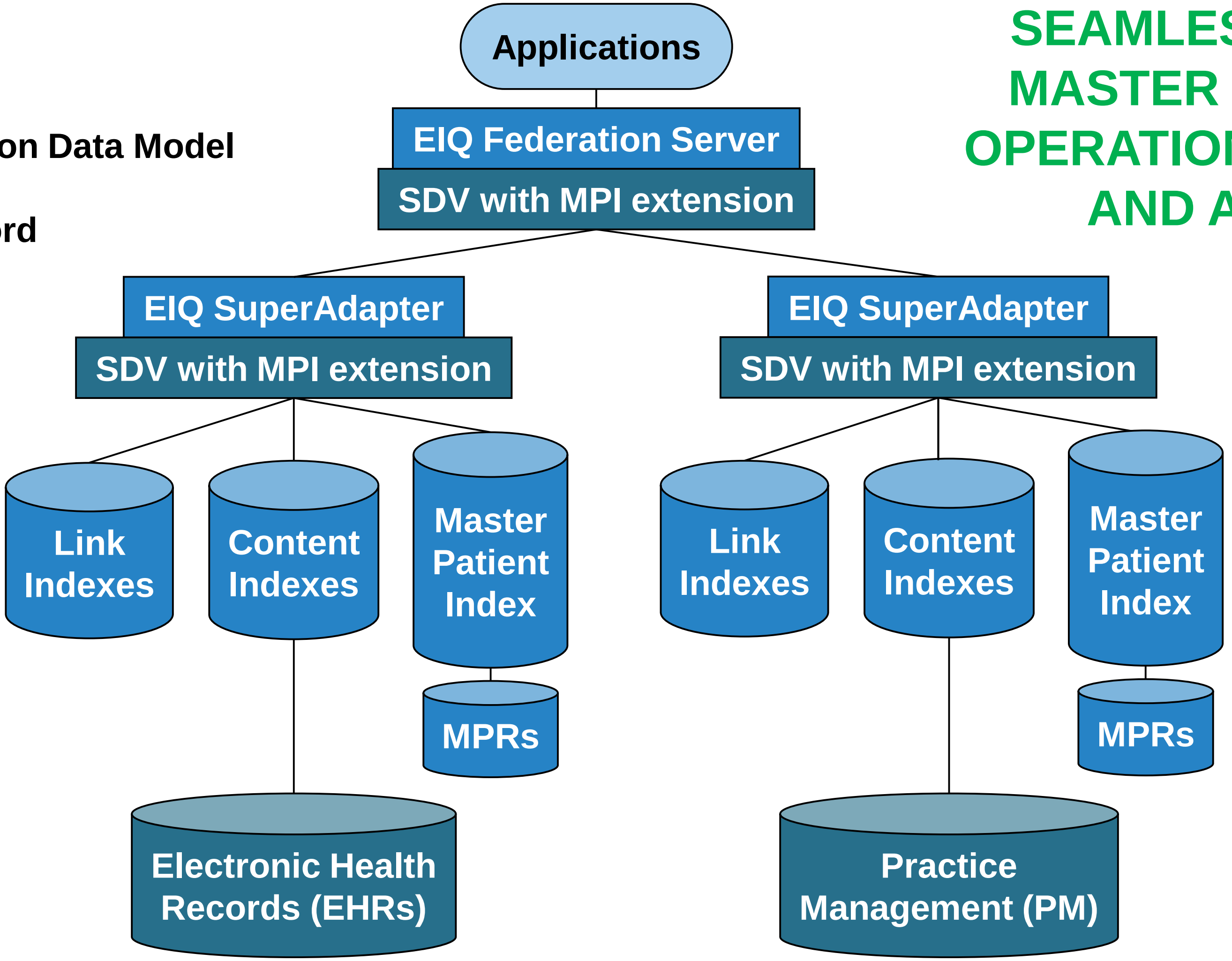
SDV

Content Indexes

Practice Management (PM)

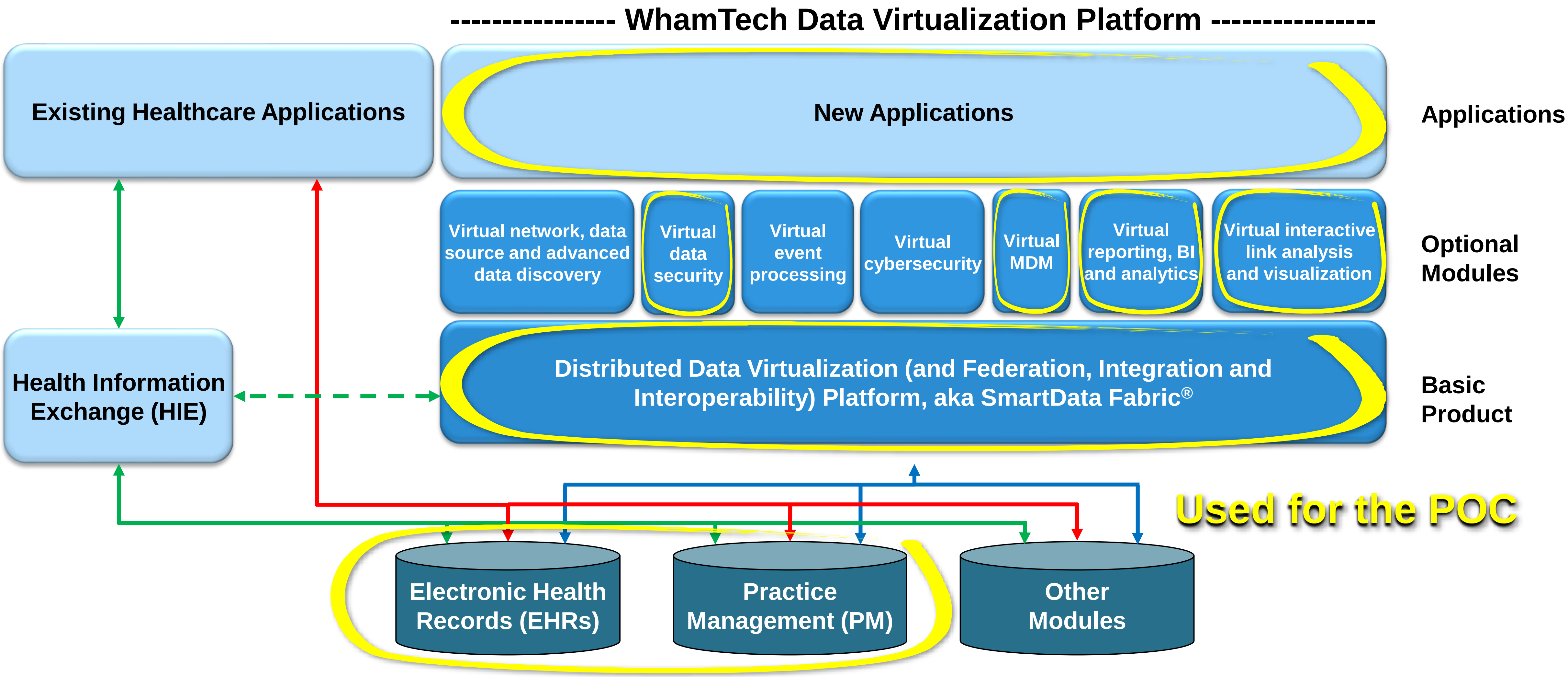
Distributed VMPI SDF System Configuration

SDV = Standard Data View
aka Standard/Common Data Model
MPI = Master Patient Index
MPR = Master Patient Record


Applications
EIQ Federation Server
SDV with MPI extension
EIQ SuperAdapter
SDV with MPI extension
EIQ SuperAdapter
SDV with MPI extension
Link Indexes
Content Indexes
Master Patient Index
MPRs
Link Indexes
Content Indexes
Master Patient Index
MPRs
Electronic Health Records (EHRs)
Practice Management (PM)

SEAMLESS INTEGRATION OF MASTER PATIENT DATA WITH OPERATIONAL/TRANSACTIONAL AND ANY OTHER DATA

Distributed VMPI Complements Existing Healthcare Applications



---------------- WhamTech Data Virtualization Platform ----------------

Existing Healthcare Applications

New Applications

Applications

Virtual network, data source and advanced data discovery

Virtual data security

Virtual event processing

Virtual cybersecurity

Virtual MDM

Virtual reporting, BI and analytics

Virtual interactive link analysis and visualization

Optional Modules

Health Information Exchange (HIE)

Distributed Data Virtualization (and Federation, Integration and Interoperability) Platform, aka SmartData Fabric®

Basic Product

Used for the POC

Electronic Health Records (EHRs)

Practice Management (PM)

Other Modules

Benefits of Distributed VMPI for Existing Healthcare Applications

- Complements the capabilities of existing applications
  - Could be incorporated as an OEM or existing applications marketed as compatible
- Extends the life of stand-alone applications that might otherwise be replaced by more complete competitor systems by customers
- Enables cooperation among multiple vendors to compete with complete offerings from larger vendors, plus, more capabilities
- Enables HIE capabilities for vendors that have incompatible standards, e.g., non-HL7
  - Serves as a possible stopgap until standards compatible
  - Could be incorporated as an OEM or existing applications marketed as compatible
- Enables future vendor applications that leverage capabilities
  - Could be incorporated as an OEM or new applications marketed as compatible

EOS

The End

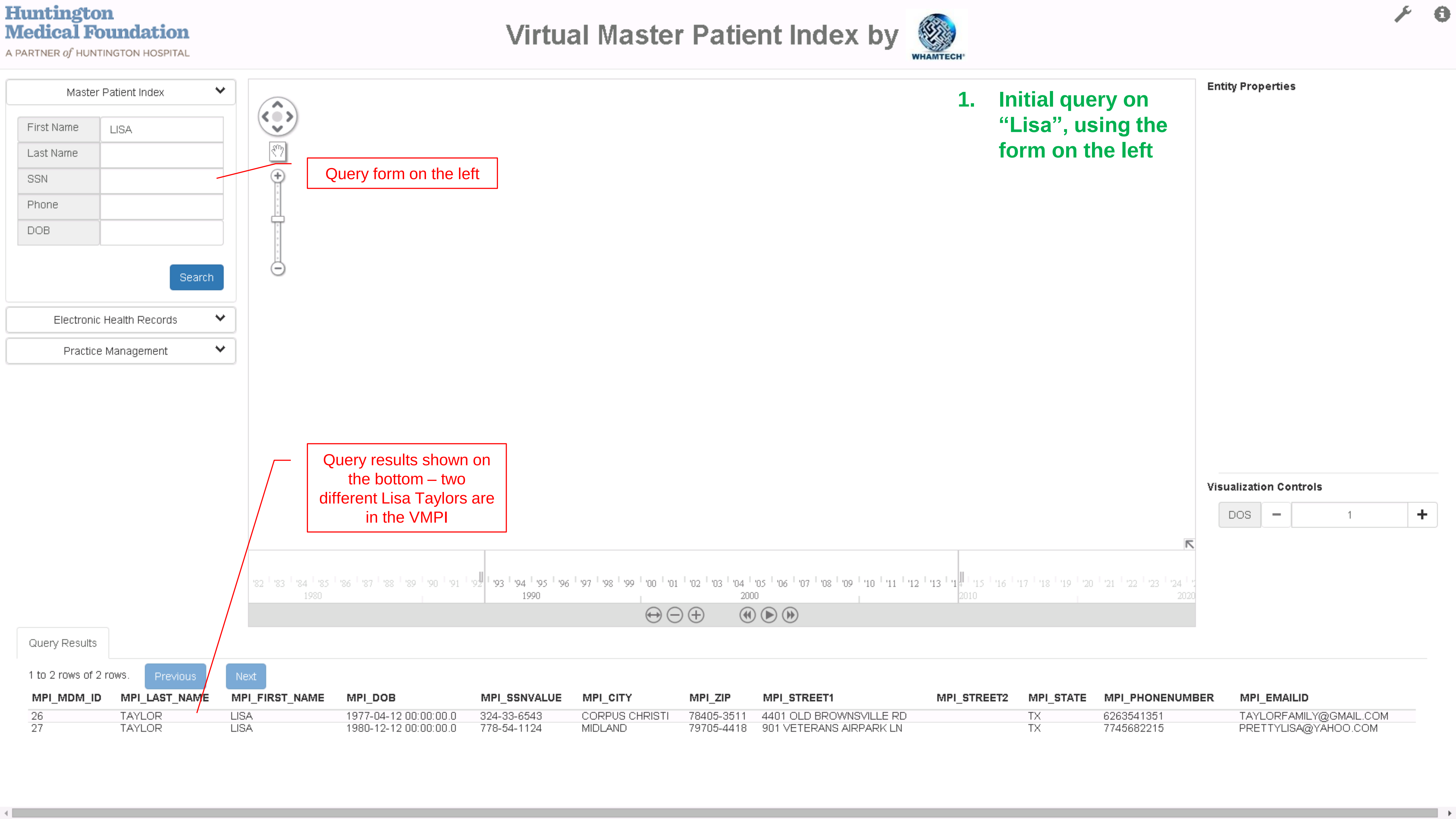
Click on this link to run the demo:

https://whamtechdemo.mybluemix.net

Screenshots from the VMPI POC

Showing own dummy data for HIPAA compliance.

MPI, EHR and PM data sources combined.


Huntington Medical Foundation
A PARTNER of HUNTINGTON HOSPITAL
Virtual Master Patient Index by
WHAMTECH
Master Patient Index
Search
Electronic Health Records
Practice Management
Entity Properties
Visualization Controls
DOS
1
1980
1990
2000
2010
2020
Query Results
Previous
Next

1. Initial query on “Lisa”, using the form on the left

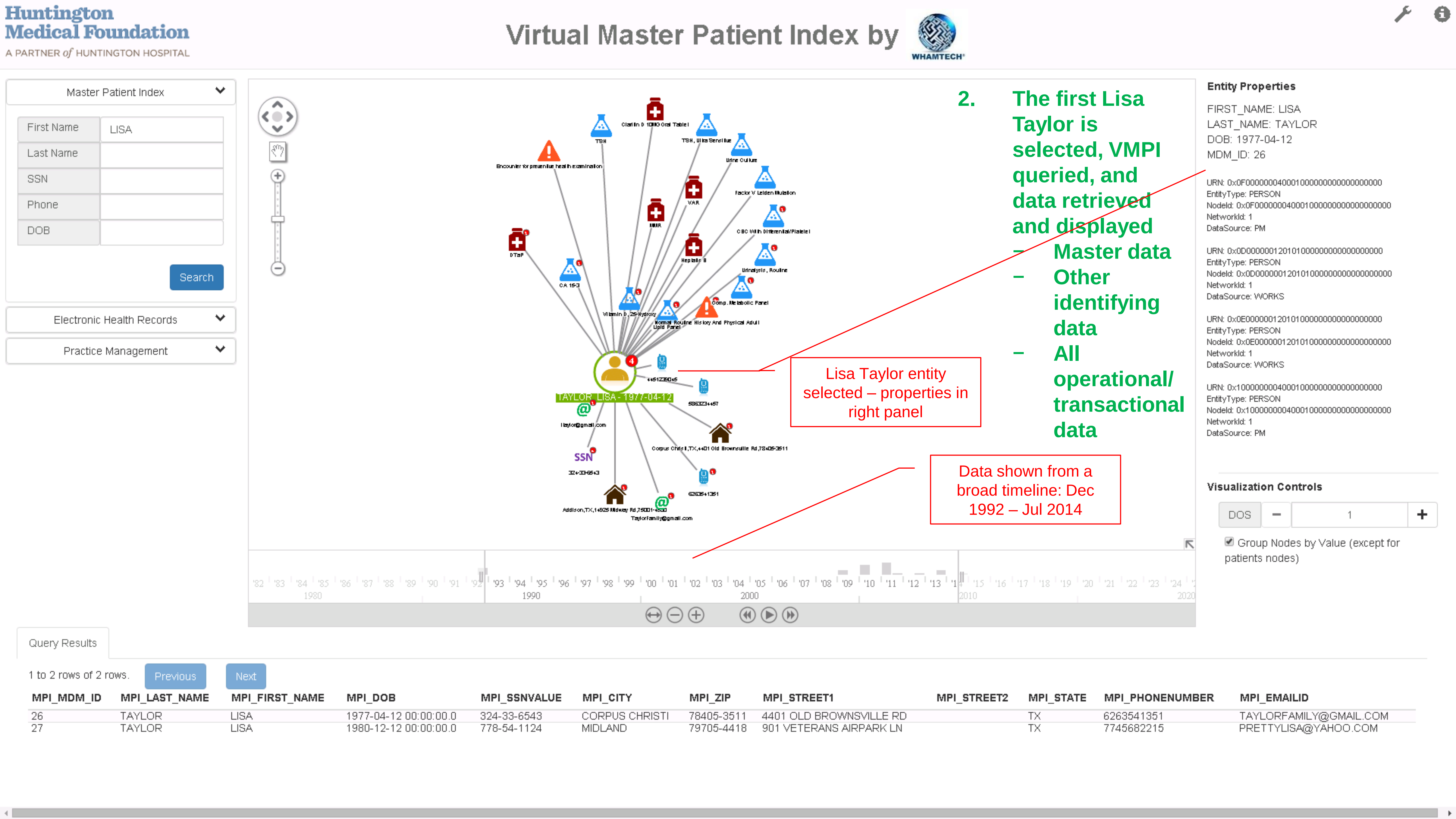
First Name	LISA
Last Name	
SSN	
Phone	
DOB	

Query form on the left

Query results shown on the bottom – two different Lisa Taylors are in the VMPI

1 to 2 rows of 2 rows.

MPI_MDM_ID	MPI_LAST_NAME	MPI_FIRST_NAME	MPI_DOB	MPI_SSNVALUE	MPI_CITY	MPI_ZIP	MPI_STREET1	MPI_STREET2	MPI_STATE	MPI_PHONENUMBER	MPI_EMAILID
26	TAYLOR	LISA	1977-04-12 00:00:00.0	324-33-6543	CORPUS CHRISTI	78405-3511	4401 OLD BROWNSVILLE RD		TX	6263541351	TAYLORFAMILY@GMAIL.COM
27	TAYLOR	LISA	1980-12-12 00:00:00.0	778-54-1124	MIDLAND	79705-4418	901 VETERANS AIRPARK LN		TX	7745682215	PRETTYLISA@YAHOO.COM


Huntington Medical Foundation
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WHAMTECH
Clarlin D 10MG Oral Tablet
TSH
TSH, Ultra Sensitive
Encounter for preventive health examination
Urine Culture
VAR
Factor V Leiden Mutation
MMR
CBC With Differential/Platelet
DTaP
Hepatitis B
Urinalysis, Routine
CA 15-3
Comp. Metabolic Panel
Vitamin D, 25-Hydroxy
Normal Routine History And Physical Adult
Lipid Panel
4
4451238045
TAYLOR, LISA - 1977-04-12
5853234457
ltaylor@gmail.com
Corpus Christi,TX,4401 Old Brownsville Rd,78405-3511
SSN
324-33-6543
6263541351
Addison,TX,14925 Midway Rd,75001-4500
TaylorFamily@gmail.com
'82 '83 '84 '85 '86 '87 '88 '89 '90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17 '18 '19 '20 '21 '22 '23 '24
1980
1990
2000
2010
2020
Query Results

Virtual Master Patient Index by

Master Patient Index

First Name: LISA
Last Name:
SSN:
Phone:
DOB:

Search

Electronic Health Records

Practice Management

2. The first Lisa Taylor is selected, VMPI queried, and data retrieved and displayed
- **Master data**
- **Other identifying data**
- **All operational/ transactional data**

Lisa Taylor entity selected – properties in right panel

Data shown from a broad timeline: Dec 1992 – Jul 2014

Entity Properties

FIRST_NAME: LISA
LAST_NAME: TAYLOR
DOB: 1977-04-12
MDM_ID: 26

URN: 0x0F000000040001000000000000000000
EntityType: PERSON
NodeId: 0x0F000000040001000000000000000000
NetworkId: 1
DataSource: PM

URN: 0x0D000000120101000000000000000000
EntityType: PERSON
NodeId: 0x0D000000120101000000000000000000
NetworkId: 1
DataSource: WORKS

URN: 0x0E000000120101000000000000000000
EntityType: PERSON
NodeId: 0x0E000000120101000000000000000000
NetworkId: 1
DataSource: WORKS

URN: 0x10000000040001000000000000000000
EntityType: PERSON
NodeId: 0x10000000040001000000000000000000
NetworkId: 1
DataSource: PM

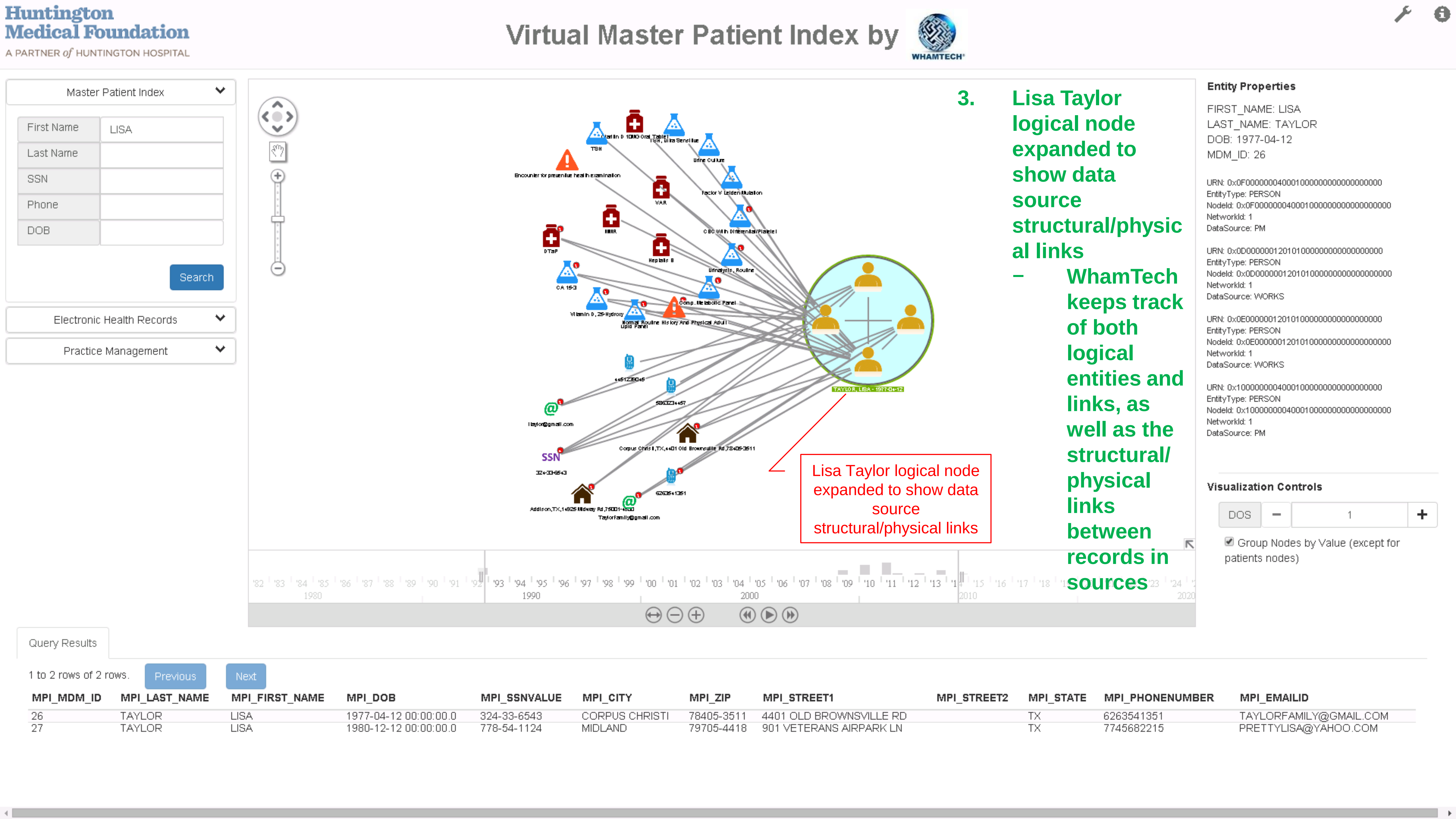
Visualization Controls

DOS − 1 +

☑ Group Nodes by Value (except for patients nodes)

1 to 2 rows of 2 rows. Previous Next

MPI_MDM_ID	MPI_LAST_NAME	MPI_FIRST_NAME	MPI_DOB	MPI_SSNVALUE	MPI_CITY	MPI_ZIP	MPI_STREET1	MPI_STREET2	MPI_STATE	MPI_PHONENUMBER	MPI_EMAILID
26	TAYLOR	LISA	1977-04-12 00:00:00.0	324-33-6543	CORPUS CHRISTI	78405-3511	4401 OLD BROWNSVILLE RD		TX	6263541351	TAYLORFAMILY@GMAIL.COM
27	TAYLOR	LISA	1980-12-12 00:00:00.0	778-54-1124	MIDLAND	79705-4418	901 VETERANS AIRPARK LN		TX	7745682215	PRETTYLISA@YAHOO.COM



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Virtual Master Patient Index by

WHAMTECH®

Master Patient Index

First Name: LISA
Last Name:
SSN:
Phone:
DOB:

Search
Electronic Health Records
Practice Management

Warfarin D 10MG Oral Tablet
TSH
TSH, Ultra Sensitive
Urine Culture
Encounter for preventive health examination
VAR
Factor V Leiden Mutation
MMR
CBC With Differential/Platelet
DTaP
Hepatitis B
Urinalysis, Routine
CA 15-3
Comp. Metabolic Panel
Vitamin D, 25-Hydroxy
Normal Routine Lipid Panel
History And Physical Adult
4451239045
5853234457
ltaylor@gmail.com
Corpus Christi,TX,4401 Old Brownsville Rd,78405-3511
SSN
324-33-6543
6263541351
Addison,TX,14925 Midway Rd,75001-4800
TaylorFamily@gmail.com
TAYLOR, LISA - 1977-04-12
'82 '83 '84 '85 '86 '87 '88 '89 '90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17 '18 '19 '23 '24
1980 1990 2000 2010 2020

3. Lisa Taylor logical node expanded to show data source structural/physical links

- WhamTech keeps track of both logical entities and links, as well as the structural/ physical links between records in sources

Lisa Taylor logical node expanded to show data source structural/physical links

Entity Properties

FIRST_NAME: LISA
LAST_NAME: TAYLOR
DOB: 1977-04-12
MDM_ID: 26

URN: 0x0F00000004000100000000000000000
EntityType: PERSON
NodeId: 0x0F00000004000100000000000000000
NetworkId: 1
DataSource: PM

URN: 0x0D000000012010100000000000000000
EntityType: PERSON
NodeId: 0x0D000000012010100000000000000000
NetworkId: 1
DataSource: WORKS

URN: 0x0E000000012010100000000000000000
EntityType: PERSON
NodeId: 0x0E000000012010100000000000000000
NetworkId: 1
DataSource: WORKS

URN: 0x10000000004000100000000000000000
EntityType: PERSON
NodeId: 0x10000000004000100000000000000000
NetworkId: 1
DataSource: PM

Visualization Controls

DOS − 1 +

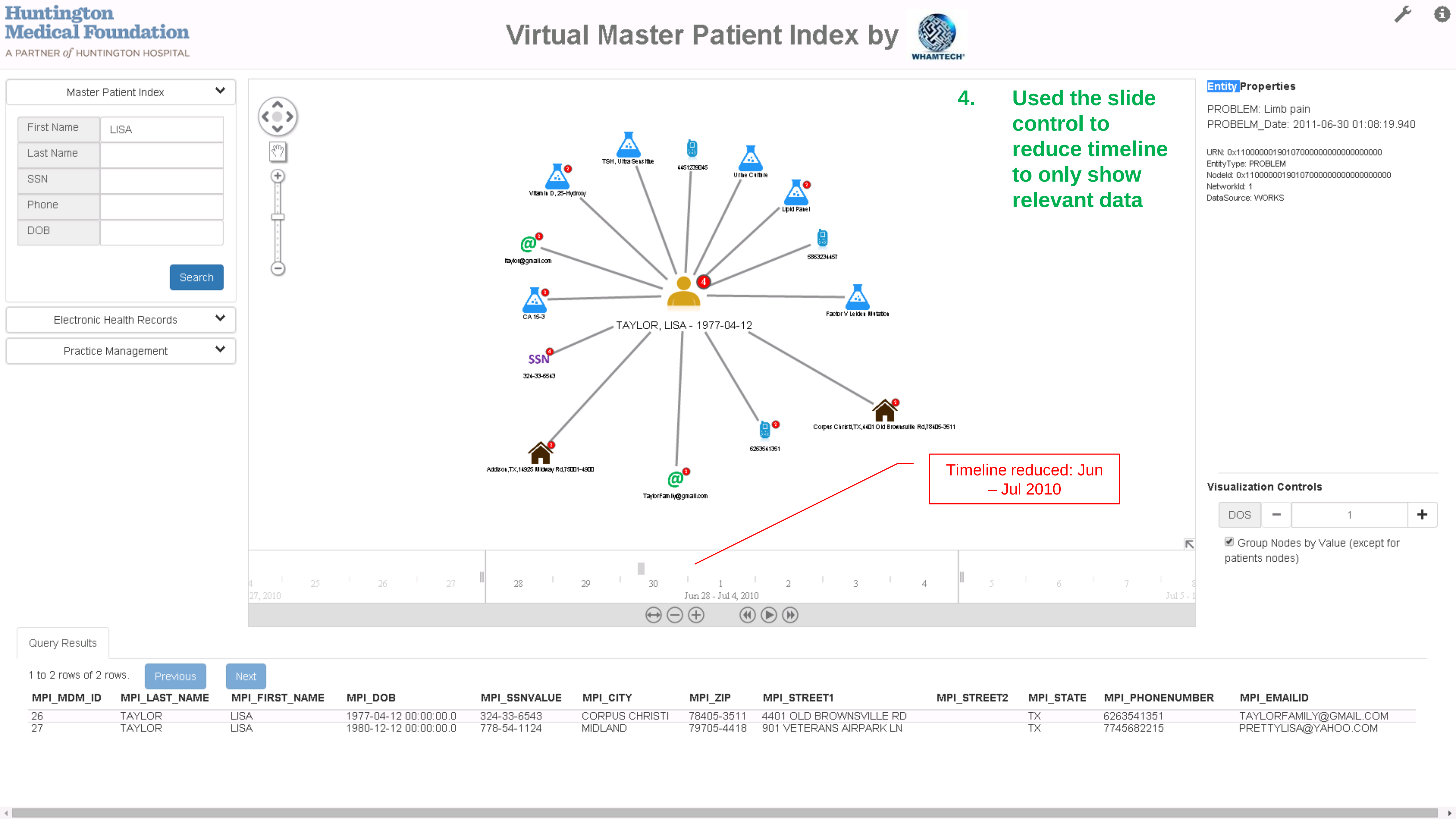
☑ Group Nodes by Value (except for patients nodes)

Query Results

1 to 2 rows of 2 rows.

Previous
Next

MPI_MDM_ID	MPI_LAST_NAME	MPI_FIRST_NAME	MPI_DOB	MPI_SSNVALUE	MPI_CITY	MPI_ZIP	MPI_STREET1	MPI_STREET2	MPI_STATE	MPI_PHONENUMBER	MPI_EMAILID
26	TAYLOR	LISA	1977-04-12 00:00:00.0	324-33-6543	CORPUS CHRISTI	78405-3511	4401 OLD BROWNSVILLE RD		TX	6263541351	TAYLORFAMILY@GMAIL.COM
27	TAYLOR	LISA	1980-12-12 00:00:00.0	778-54-1124	MIDLAND	79705-4418	901 VETERANS AIRPARK LN		TX	7745682215	PRETTYLISA@YAHOO.COM



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Virtual Master Patient Index by WHAMTECH

4. Used the slide control to reduce timeline to only show relevant data

Timeline reduced: Jun – Jul 2010

Master Patient Index

First Name: LISA
Last Name:
SSN:
Phone:
DOB:

Search
Electronic Health Records
Practice Management
TSH, Ultra Sensitive
4451239045
Urine Culture
Vitamin D, 25-Hydroxy
Lipid Panel
ltaylor@gmail.com
5863234457
CA 15-3
Factor V Leiden Mutation
TAYLOR, LISA - 1977-04-12
SSN
324-33-6543
Corpus Christi,TX,4401 Old Brownsville Rd,78405-3511
6263541351
Addison,TX,14925 Midway Rd,75001-4900
TaylorFamily@gmail.com
4
2
25
26
27
28
29
30
1
2
3
4
5
6
7
8
27, 2010
Jun 28 - Jul 4, 2010
Jul 5 - 1

Entity Properties

PROBLEM: Limb pain
PROBELM_Date: 2011-06-30 01:08:19.940

URN: 0x110000001901070000000000000000
EntityType: PROBLEM
NodeId: 0x110000001901070000000000000000
NetworkId: 1
DataSource: WORKS

Visualization Controls

DOS − 1 +

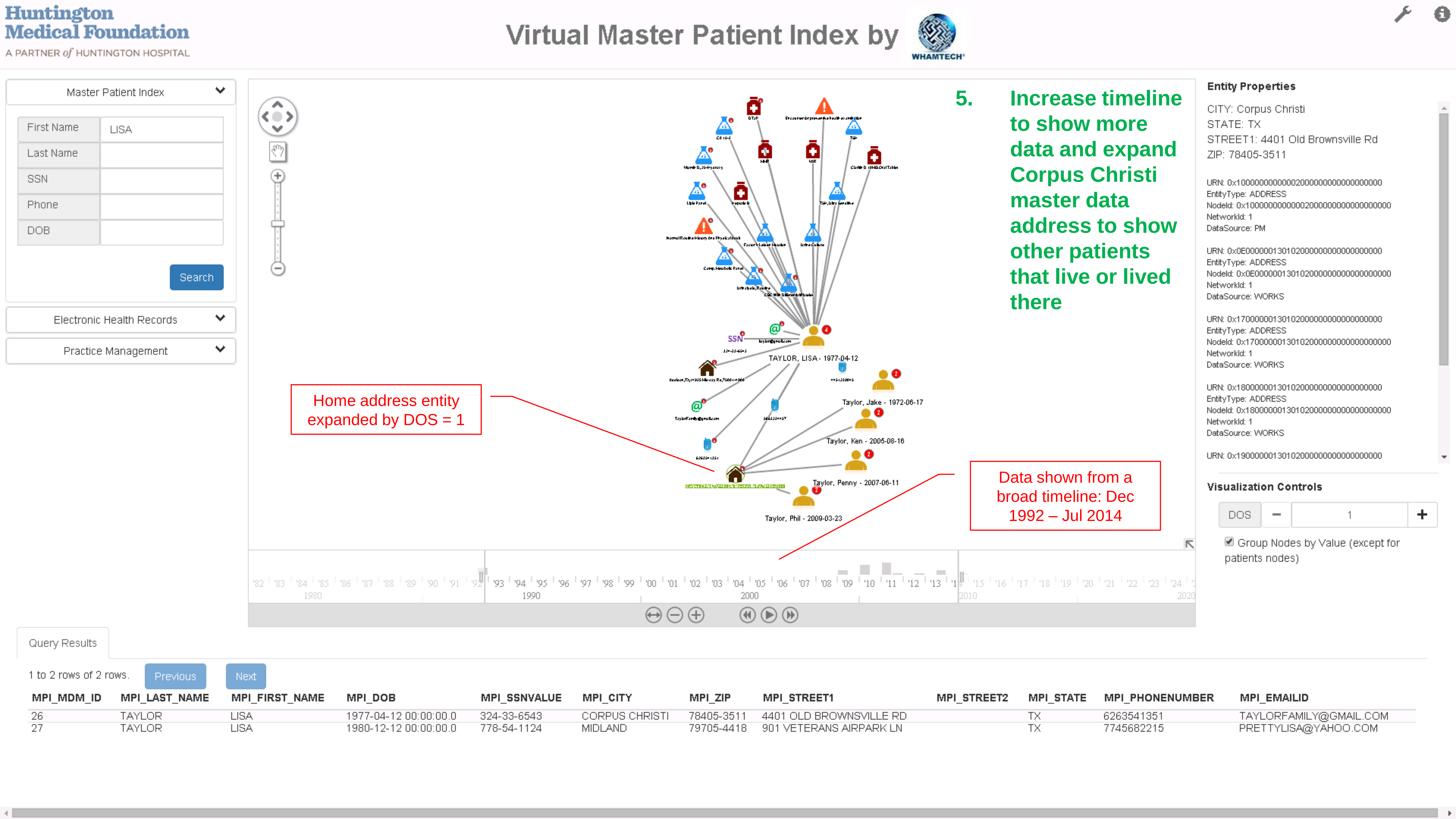
☑ Group Nodes by Value (except for patients nodes)

Query Results

1 to 2 rows of 2 rows.

Previous
Next

MPI_MDM_ID	MPI_LAST_NAME	MPI_FIRST_NAME	MPI_DOB	MPI_SSNVALUE	MPI_CITY	MPI_ZIP	MPI_STREET1	MPI_STREET2	MPI_STATE	MPI_PHONENUMBER	MPI_EMAILID
26	TAYLOR	LISA	1977-04-12 00:00:00.0	324-33-6543	CORPUS CHRISTI	78405-3511	4401 OLD BROWNSVILLE RD		TX	6263541351	TAYLORFAMILY@GMAIL.COM
27	TAYLOR	LISA	1980-12-12 00:00:00.0	778-54-1124	MIDLAND	79705-4418	901 VETERANS AIRPARK LN		TX	7745682215	PRETTYLISA@YAHOO.COM


Huntington Medical Foundation
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WHAMTECH
Master Patient Index
Search
Electronic Health Records
Practice Management
SSN
TAYLOR, LISA - 1977-04-12
Taylor, Jake - 1972-06-17
Taylor, Ken - 2005-08-16
Taylor, Penny - 2007-06-11
Taylor, Phil - 2009-03-23
'82 '83 '84 '85 '86 '87 '88 '89 '90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17 '18 '19 '20 '21 '22 '23 '24
1980
1990
2000
2010
2020
Visualization Controls
DOS
1
Query Results
Previous
Next

Virtual Master Patient Index by

First Name: LISA
Last Name:
SSN:
Phone:
DOB:

5. Increase timeline to show more data and expand Corpus Christi master data address to show other patients that live or lived there

Home address entity expanded by DOS = 1

Data shown from a broad timeline: Dec 1992 – Jul 2014

Entity Properties

CITY: Corpus Christi
STATE: TX
STREET1: 4401 Old Brownsville Rd
ZIP: 78405-3511

URN: 0x10000000000002000000000000000000
EntityType: ADDRESS
NodeId: 0x10000000000002000000000000000000
NetworkId: 1
DataSource: PM

URN: 0x0E000000130102000000000000000000
EntityType: ADDRESS
NodeId: 0x0E000000130102000000000000000000
NetworkId: 1
DataSource: WORKS

URN: 0x17000000130102000000000000000000
EntityType: ADDRESS
NodeId: 0x17000000130102000000000000000000
NetworkId: 1
DataSource: WORKS

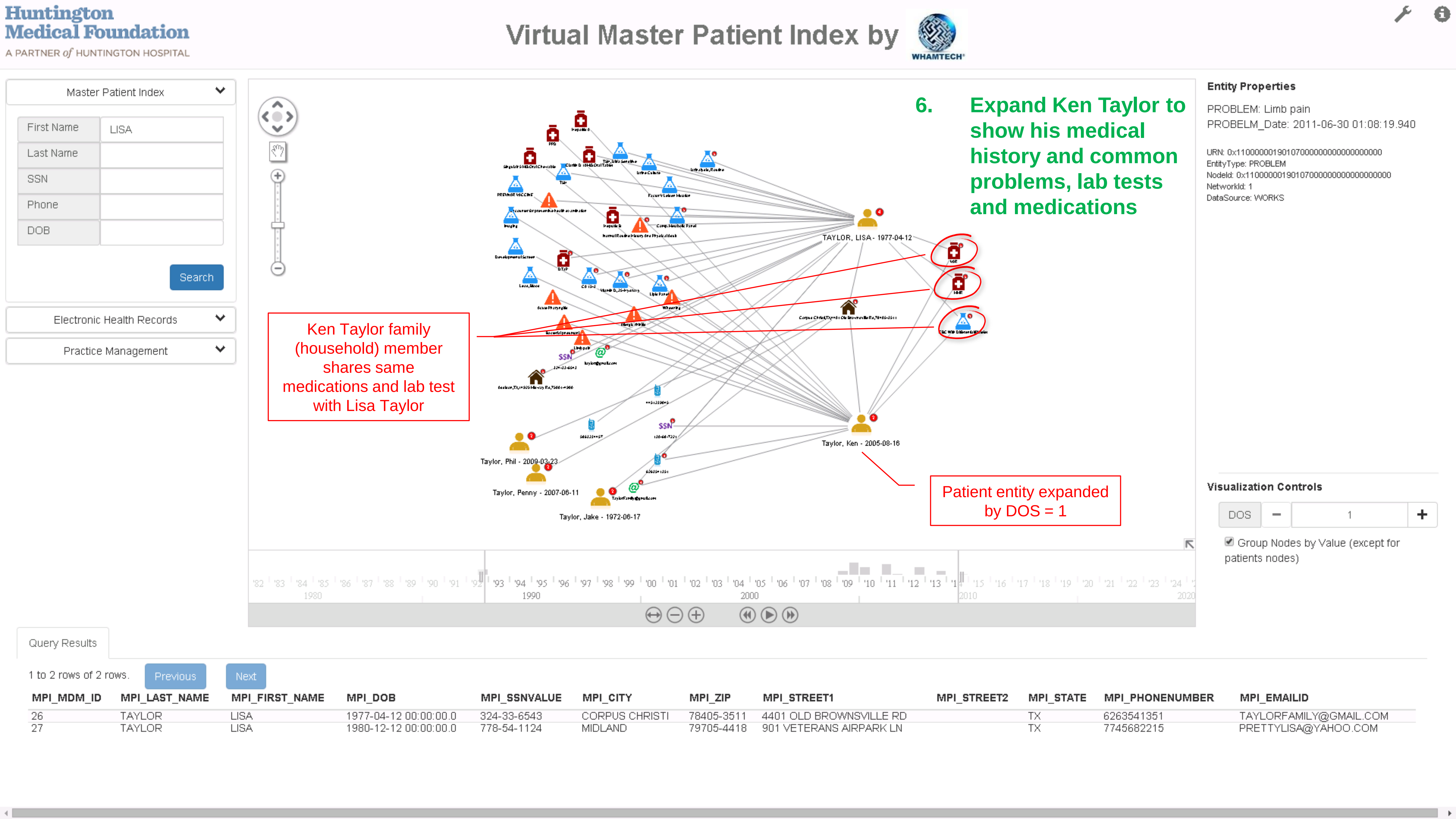
URN: 0x18000000130102000000000000000000
EntityType: ADDRESS
NodeId: 0x18000000130102000000000000000000
NetworkId: 1
DataSource: WORKS

URN: 0x19000000130102000000000000000000

☑ Group Nodes by Value (except for patients nodes)

1 to 2 rows of 2 rows.

MPI_MDM_ID	MPI_LAST_NAME	MPI_FIRST_NAME	MPI_DOB	MPI_SSNVALUE	MPI_CITY	MPI_ZIP	MPI_STREET1	MPI_STREET2	MPI_STATE	MPI_PHONENUMBER	MPI_EMAILID
26	TAYLOR	LISA	1977-04-12 00:00:00.0	324-33-6543	CORPUS CHRISTI	78405-3511	4401 OLD BROWNSVILLE RD		TX	6263541351	TAYLORFAMILY@GMAIL.COM
27	TAYLOR	LISA	1980-12-12 00:00:00.0	778-54-1124	MIDLAND	79705-4418	901 VETERANS AIRPARK LN		TX	7745682215	PRETTYLISA@YAHOO.COM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WHAMTECH
Master Patient Index
Electronic Health Records
Practice Management
Search
TAYLOR, LISA - 1977-04-12
Taylor, Ken - 2005-08-16
Taylor, Phil - 2009-03-23
Taylor, Penny - 2007-06-11
Taylor, Jake - 1972-06-17
'82 '83 '84 '85 '86 '87 '88 '89 '90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17 '18 '19 '20 '21 '22 '23 '24
1980 1990 2000 2010 2020
Query Results
Previous
Next

Virtual Master Patient Index by

First Name: LISA
Last Name:
SSN:
Phone:
DOB:

6. Expand Ken Taylor to show his medical history and common problems, lab tests and medications

Ken Taylor family (household) member shares same medications and lab test with Lisa Taylor

Patient entity expanded by DOS = 1

Entity Properties

PROBLEM: Limb pain
PROBELM_Date: 2011-06-30 01:08:19.940

URN: 0x110000001901070000000000000000000
EntityType: PROBLEM
NodeId: 0x110000001901070000000000000000000
NetworkId: 1
DataSource: WORKS

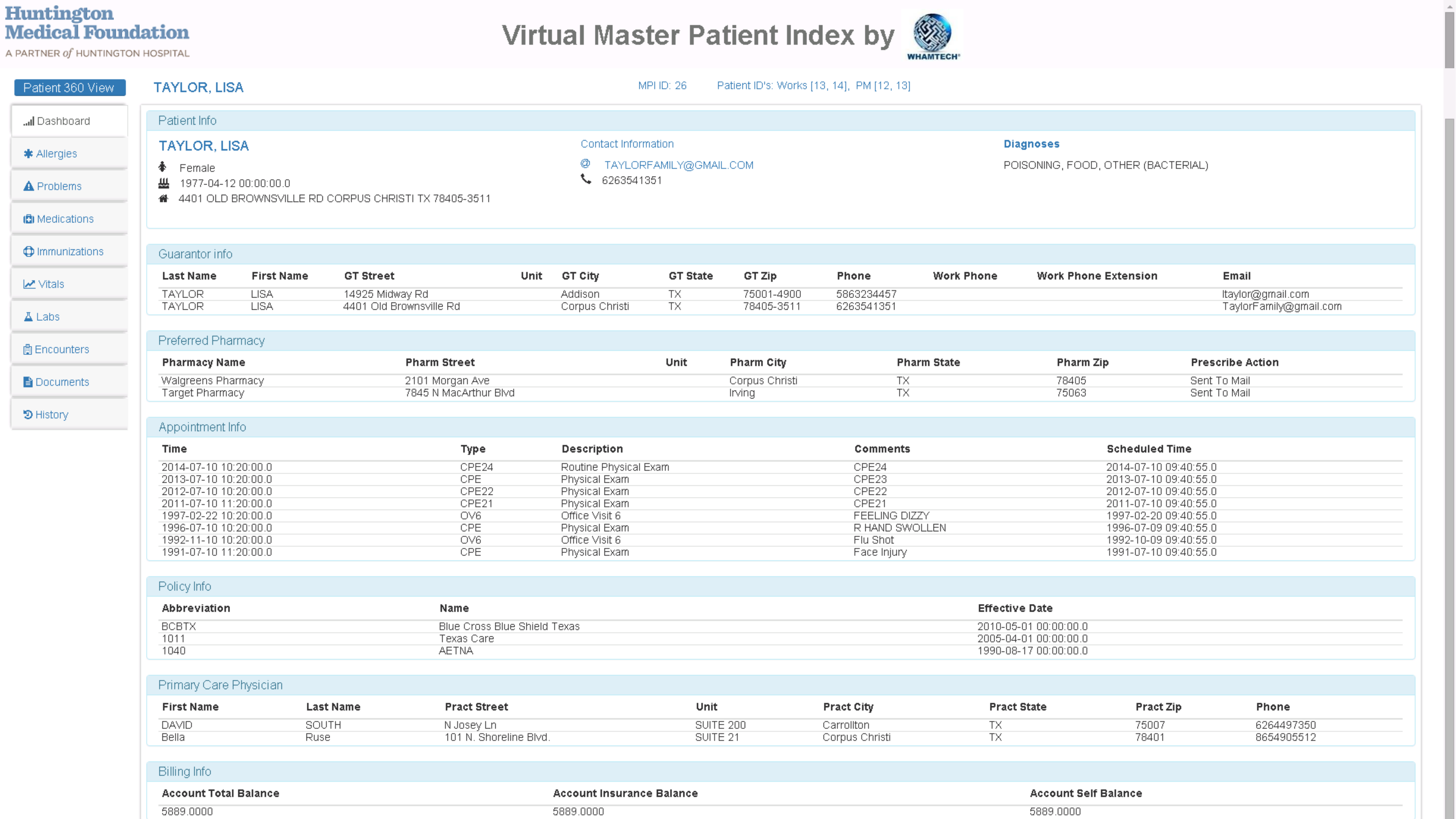
Visualization Controls

DOS − 1 +

☑ Group Nodes by Value (except for patients nodes)

1 to 2 rows of 2 rows.

MPI_MDM_ID	MPI_LAST_NAME	MPI_FIRST_NAME	MPI_DOB	MPI_SSNVALUE	MPI_CITY	MPI_ZIP	MPI_STREET1	MPI_STREET2	MPI_STATE	MPI_PHONENUMBER	MPI_EMAILID
26	TAYLOR	LISA	1977-04-12 00:00:00.0	324-33-6543	CORPUS CHRISTI	78405-3511	4401 OLD BROWNSVILLE RD		TX	6263541351	TAYLORFAMILY@GMAIL.COM
27	TAYLOR	LISA	1980-12-12 00:00:00.0	778-54-1124	MIDLAND	79705-4418	901 VETERANS AIRPARK LN		TX	7745682215	PRETTYLISA@YAHOO.COM



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WHAMTECH

Virtual Master Patient Index by

TAYLOR, LISA

MPI ID: 26   Patient ID's: Works [13, 14], PM [12, 13]

Patient Info

TAYLOR, LISA

Female
1977-04-12 00:00:00.0
4401 OLD BROWNSVILLE RD CORPUS CHRISTI TX 78405-3511

Contact Information
@ TAYLORFAMILY@GMAIL.COM
☎ 6263541351

Diagnoses
POISONING, FOOD, OTHER (BACTERIAL)

Guarantor info

Last Name	First Name	GT Street	Unit	GT City	GT State	GT Zip	Phone	Work Phone	Work Phone Extension	Email
TAYLOR	LISA	14925 Midway Rd		Addison	TX	75001-4900	5863234457			ltaylor@gmail.com
TAYLOR	LISA	4401 Old Brownsville Rd		Corpus Christi	TX	78405-3511	6263541351			TaylorFamily@gmail.com

Preferred Pharmacy

Pharmacy Name	Pharm Street	Unit	Pharm City	Pharm State	Pharm Zip	Prescribe Action
Walgreens Pharmacy	2101 Morgan Ave		Corpus Christi	TX	78405	Sent To Mail
Target Pharmacy	7845 N MacArthur Blvd		Irving	TX	75063	Sent To Mail

Appointment Info

Time	Type	Description	Comments	Scheduled Time
2014-07-10 10:20:00.0	CPE24	Routine Physical Exam	CPE24	2014-07-10 09:40:55.0
2013-07-10 10:20:00.0	CPE	Physical Exam	CPE23	2013-07-10 09:40:55.0
2012-07-10 10:20:00.0	CPE22	Physical Exam	CPE22	2012-07-10 09:40:55.0
2011-07-10 11:20:00.0	CPE21	Physical Exam	CPE21	2011-07-10 09:40:55.0
1997-02-22 10:20:00.0	OV6	Office Visit 6	FEELING DIZZY	1997-02-20 09:40:55.0
1996-07-10 10:20:00.0	CPE	Physical Exam	R HAND SWOLLEN	1996-07-09 09:40:55.0
1992-11-10 10:20:00.0	OV6	Office Visit 6	Flu Shot	1992-10-09 09:40:55.0
1991-07-10 11:20:00.0	CPE	Physical Exam	Face Injury	1991-07-10 09:40:55.0

Policy Info

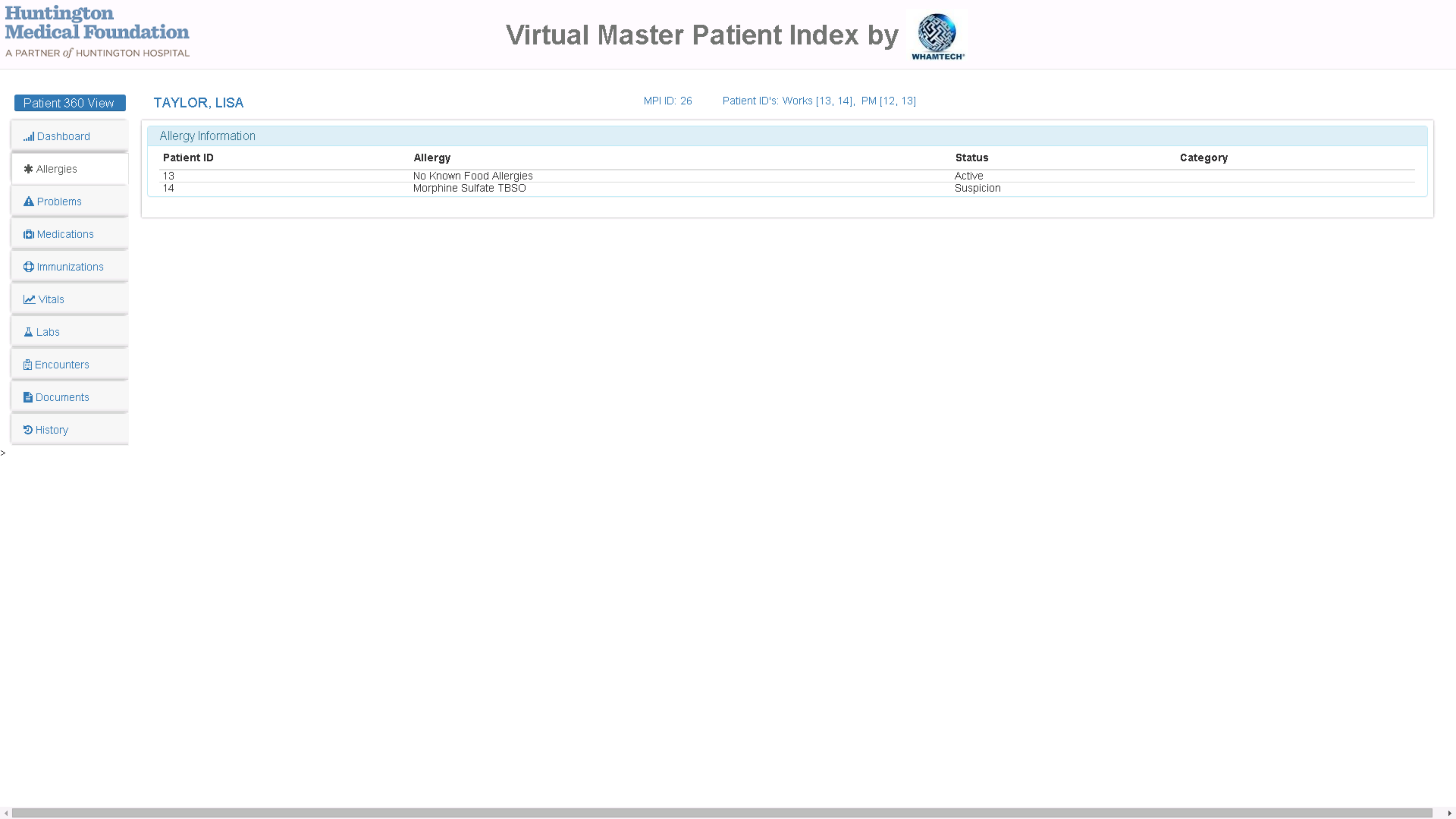
Abbreviation	Name	Effective Date
BCBTX	Blue Cross Blue Shield Texas	2010-05-01 00:00:00.0
1011	Texas Care	2005-04-01 00:00:00.0
1040	AETNA	1990-08-17 00:00:00.0

Primary Care Physician

First Name	Last Name	Pract Street	Unit	Pract City	Pract State	Pract Zip	Phone
DAVID	SOUTH	N Josey Ln	SUITE 200	Carrollton	TX	75007	6264497350
Bella	Ruse	101 N. Shoreline Blvd.	SUITE 21	Corpus Christi	TX	78401	8654905512

Billing Info

Account Total Balance	Account Insurance Balance	Account Self Balance
5889.0000	5889.0000	5889.0000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WHAMTECH
Patient 360 View
Dashboard
Allergies
Problems
Medications
Immunizations
Vitals
Labs
Encounters
Documents
History

Virtual Master Patient Index by

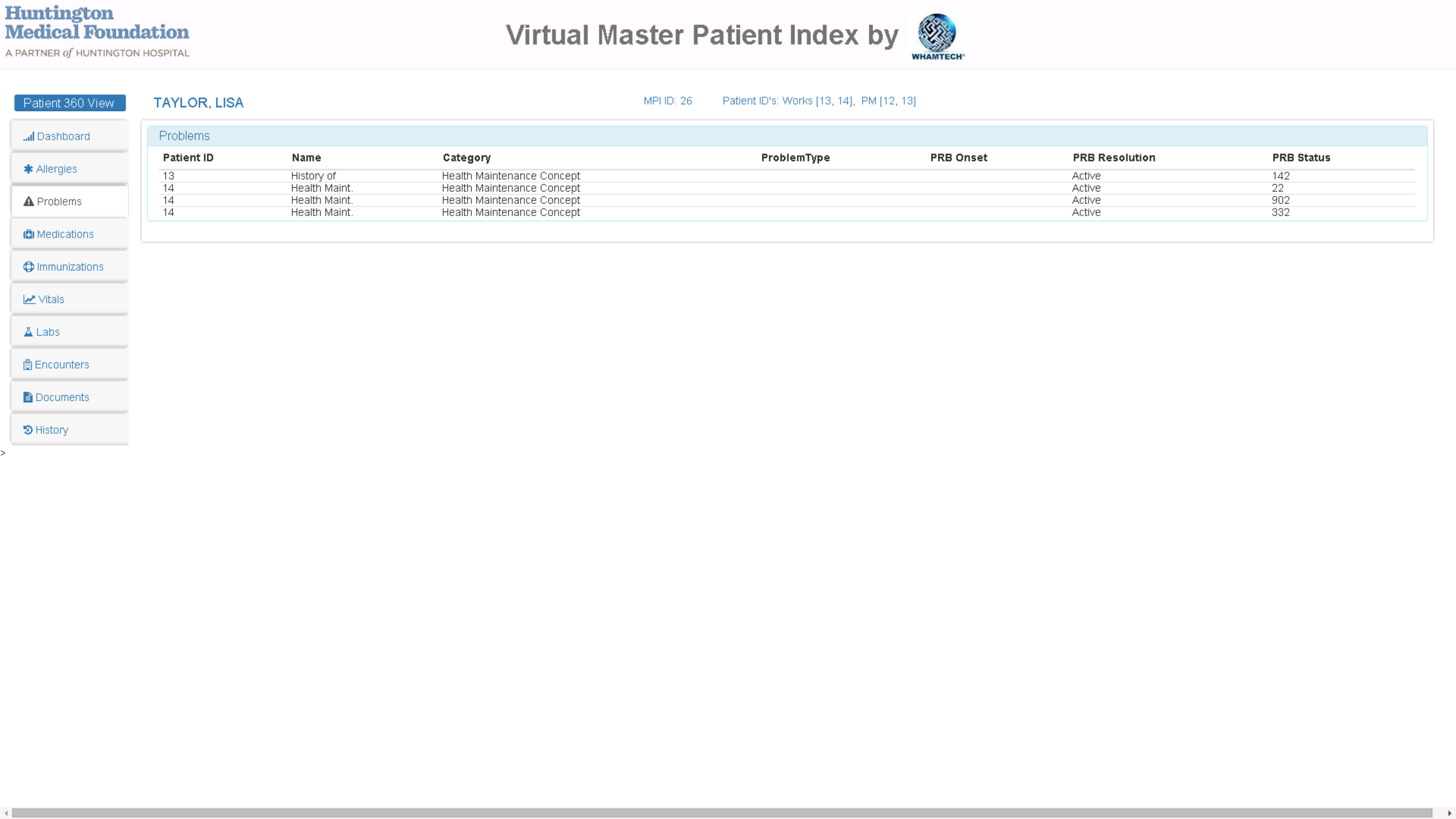
TAYLOR, LISA

MPI ID: 26

Patient ID's: Works [13, 14], PM [12, 13]

Allergy Information

Patient ID	Allergy	Status	Category
13	No Known Food Allergies	Active	
14	Morphine Sulfate TBSO	Suspicion	


Huntington Medical Foundation
A PARTNER of HUNTINGTON HOSPITAL
WHAMTECH
Patient 360 View
Dashboard
Allergies
Problems
Medications
Immunizations
Vitals
Labs
Encounters
Documents
History
>

Virtual Master Patient Index by

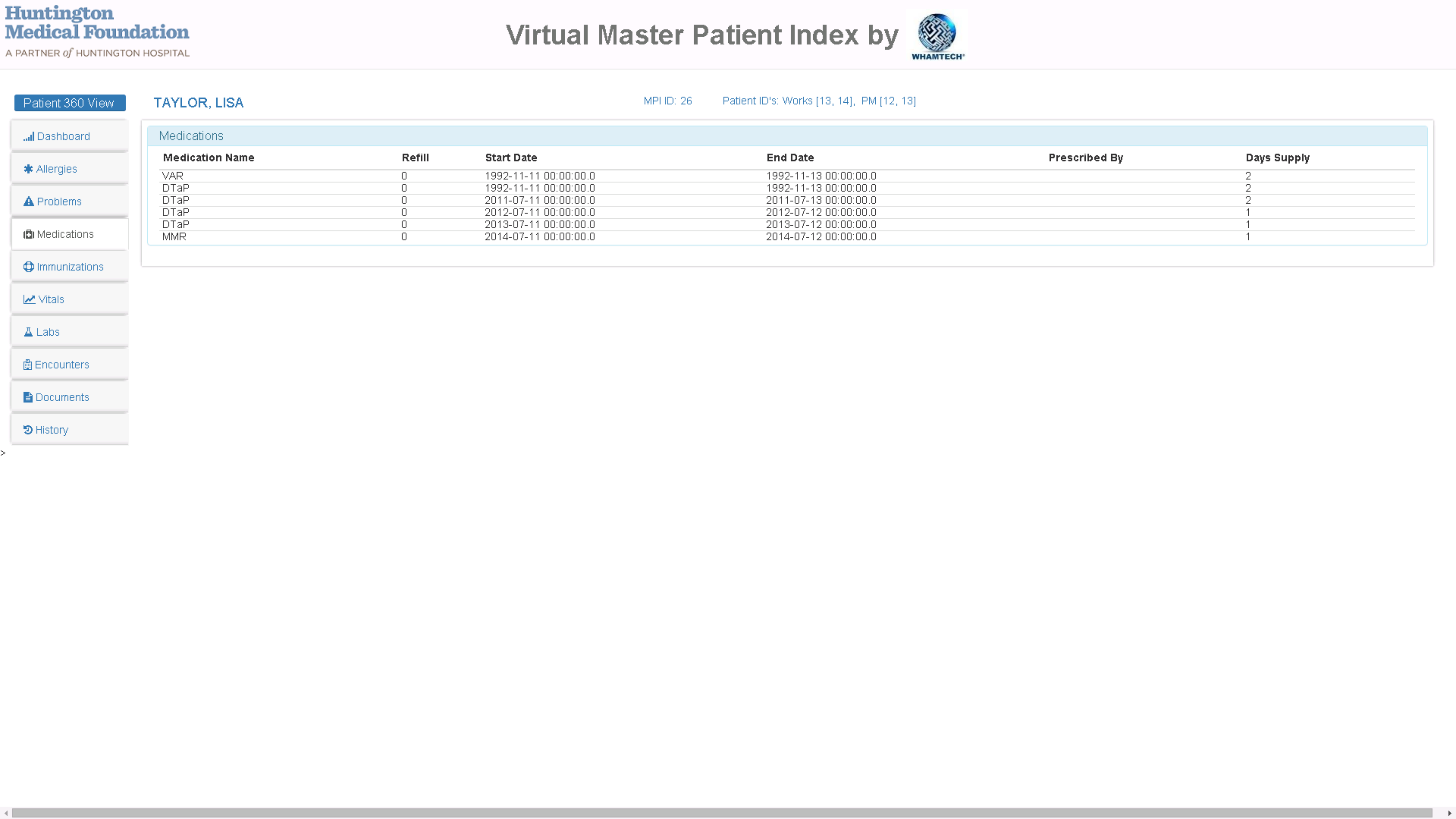
TAYLOR, LISA

MPI ID: 26

Patient ID's: Works [13, 14], PM [12, 13]

Problems

Patient ID	Name	Category	ProblemType	PRB Onset	PRB Resolution	PRB Status
13	History of	Health Maintenance Concept			Active	142
14	Health Maint.	Health Maintenance Concept			Active	22
14	Health Maint.	Health Maintenance Concept			Active	902
14	Health Maint.	Health Maintenance Concept			Active	332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Patient 360 View
Dashboard
Allergies
Problems
Medications
Immunizations
Vitals
Labs
Encounters
Documents
History

Virtual Master Patient Index by

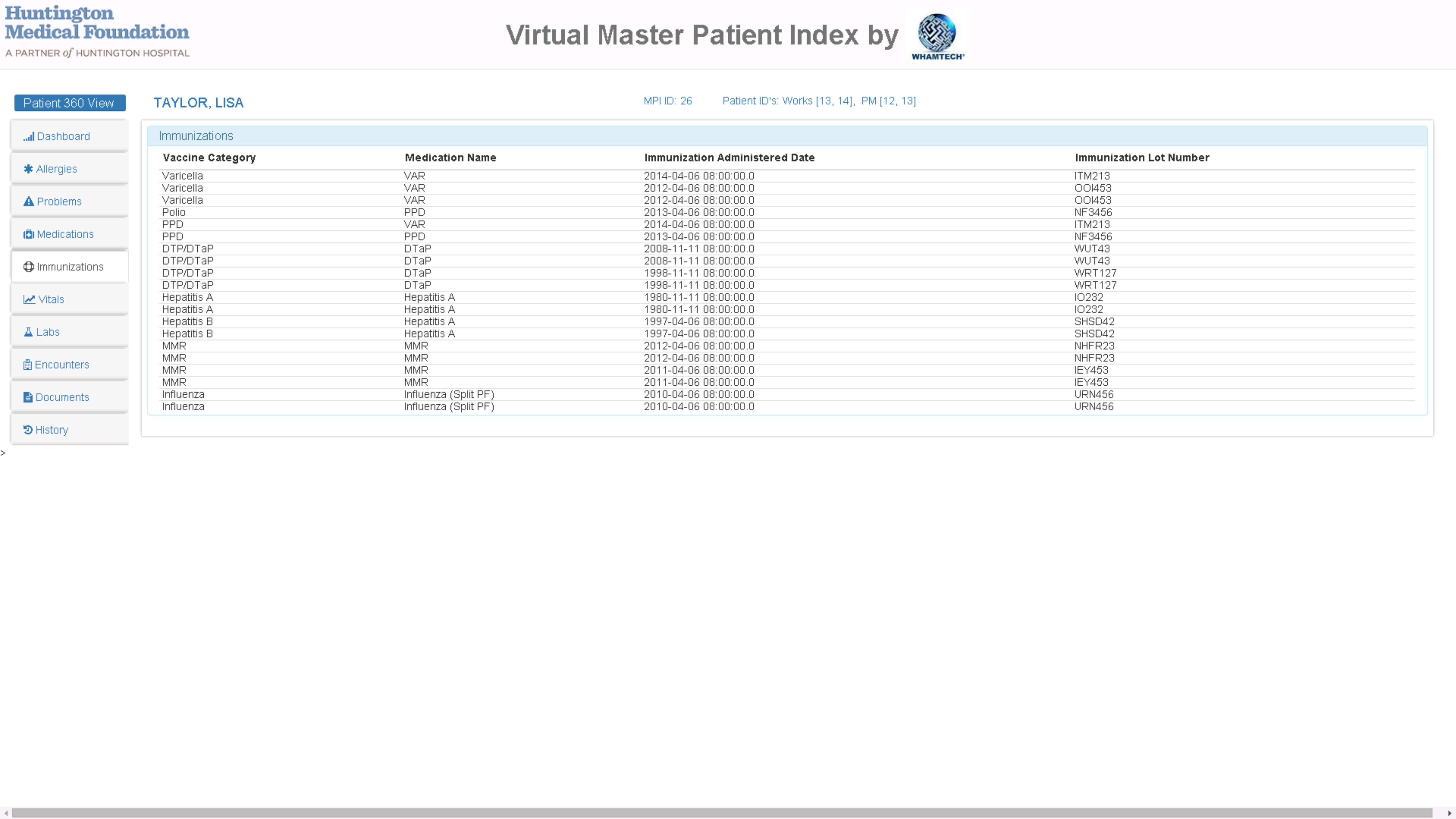
TAYLOR, LISA

MPI ID: 26

Patient ID's: Works [13, 14], PM [12, 13]

Medications

Medication Name	Refill	Start Date	End Date	Prescribed By	Days Supply
VAR	0	1992-11-11 00:00:00.0	1992-11-13 00:00:00.0		2
DTaP	0	1992-11-11 00:00:00.0	1992-11-13 00:00:00.0		2
DTaP	0	2011-07-11 00:00:00.0	2011-07-13 00:00:00.0		2
DTaP	0	2012-07-11 00:00:00.0	2012-07-12 00:00:00.0		1
DTaP	0	2013-07-11 00:00:00.0	2013-07-12 00:00:00.0		1
MMR	0	2014-07-11 00:00:00.0	2014-07-12 00:00:00.0		1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Patient 360 View
Dashboard
Allergies
Problems
Medications
Immunizations
Vitals
Labs
Encounters
Documents
History

Virtual Master Patient Index by

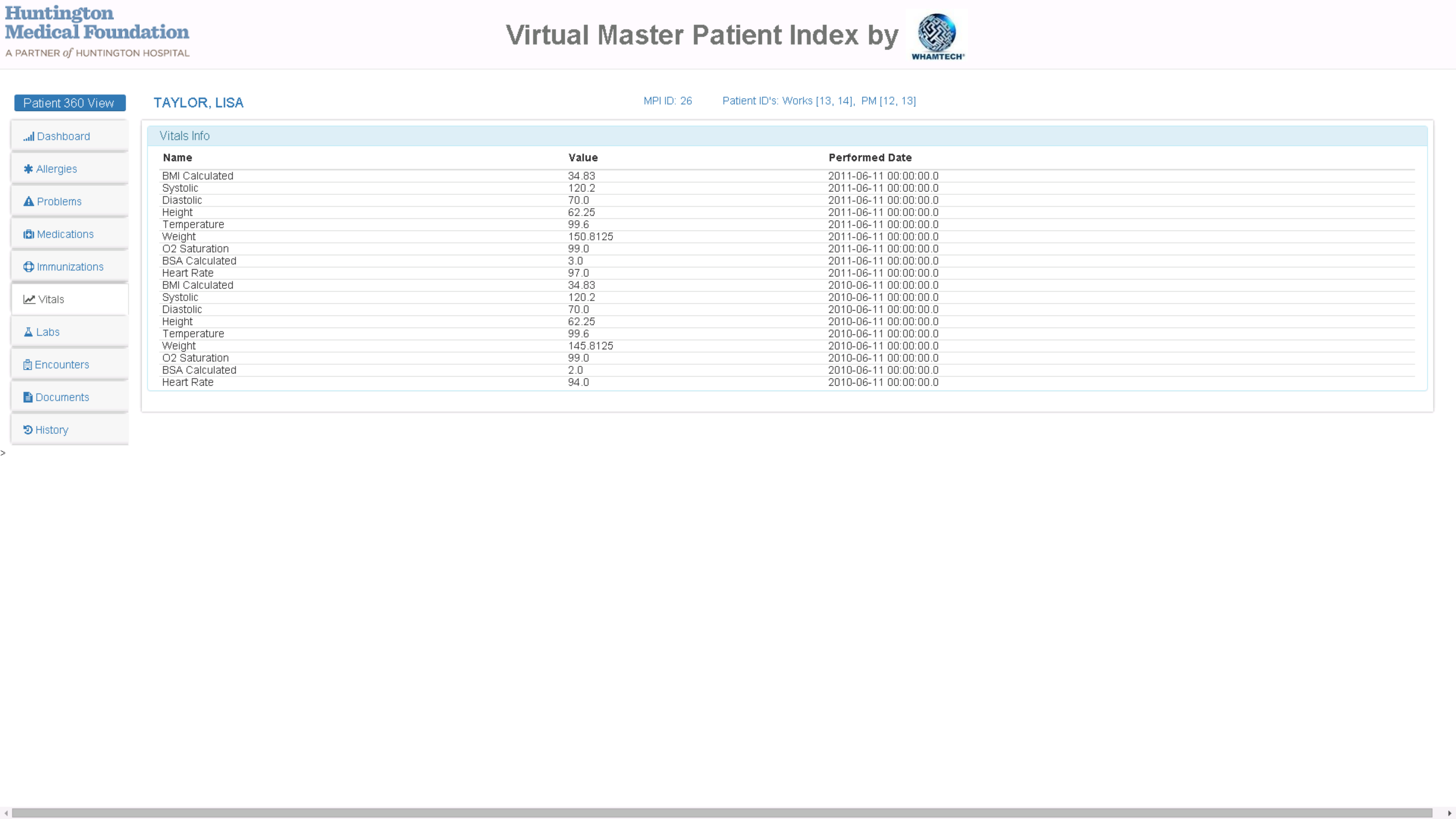
TAYLOR, LISA

MPI ID: 26

Patient ID's: Works [13, 14], PM [12, 13]

Immunizations

Vaccine Category	Medication Name	Immunization Administered Date	Immunization Lot Number
Varicella	VAR	2014-04-06 08:00:00.0	ITM213
Varicella	VAR	2012-04-06 08:00:00.0	OOI453
Varicella	VAR	2012-04-06 08:00:00.0	OOI453
Polio	PPD	2013-04-06 08:00:00.0	NF3456
PPD	VAR	2014-04-06 08:00:00.0	ITM213
PPD	PPD	2013-04-06 08:00:00.0	NF3456
DTP/DTaP	DTaP	2008-11-11 08:00:00.0	WUT43
DTP/DTaP	DTaP	2008-11-11 08:00:00.0	WUT43
DTP/DTaP	DTaP	1998-11-11 08:00:00.0	WRT127
DTP/DTaP	DTaP	1998-11-11 08:00:00.0	WRT127
Hepatitis A	Hepatitis A	1980-11-11 08:00:00.0	IO232
Hepatitis A	Hepatitis A	1980-11-11 08:00:00.0	IO232
Hepatitis B	Hepatitis A	1997-04-06 08:00:00.0	SHSD42
Hepatitis B	Hepatitis A	1997-04-06 08:00:00.0	SHSD42
MMR	MMR	2012-04-06 08:00:00.0	NHFR23
MMR	MMR	2012-04-06 08:00:00.0	NHFR23
MMR	MMR	2011-04-06 08:00:00.0	IEY453
MMR	MMR	2011-04-06 08:00:00.0	IEY453
Influenza	Influenza (Split PF)	2010-04-06 08:00:00.0	URN456
Influenza	Influenza (Split PF)	2010-04-06 08:00:00.0	URN456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WHAMTECH
Patient 360 View
Dashboard
Allergies
Problems
Medications
Immunizations
Vitals
Labs
Encounters
Documents
History

Virtual Master Patient Index by

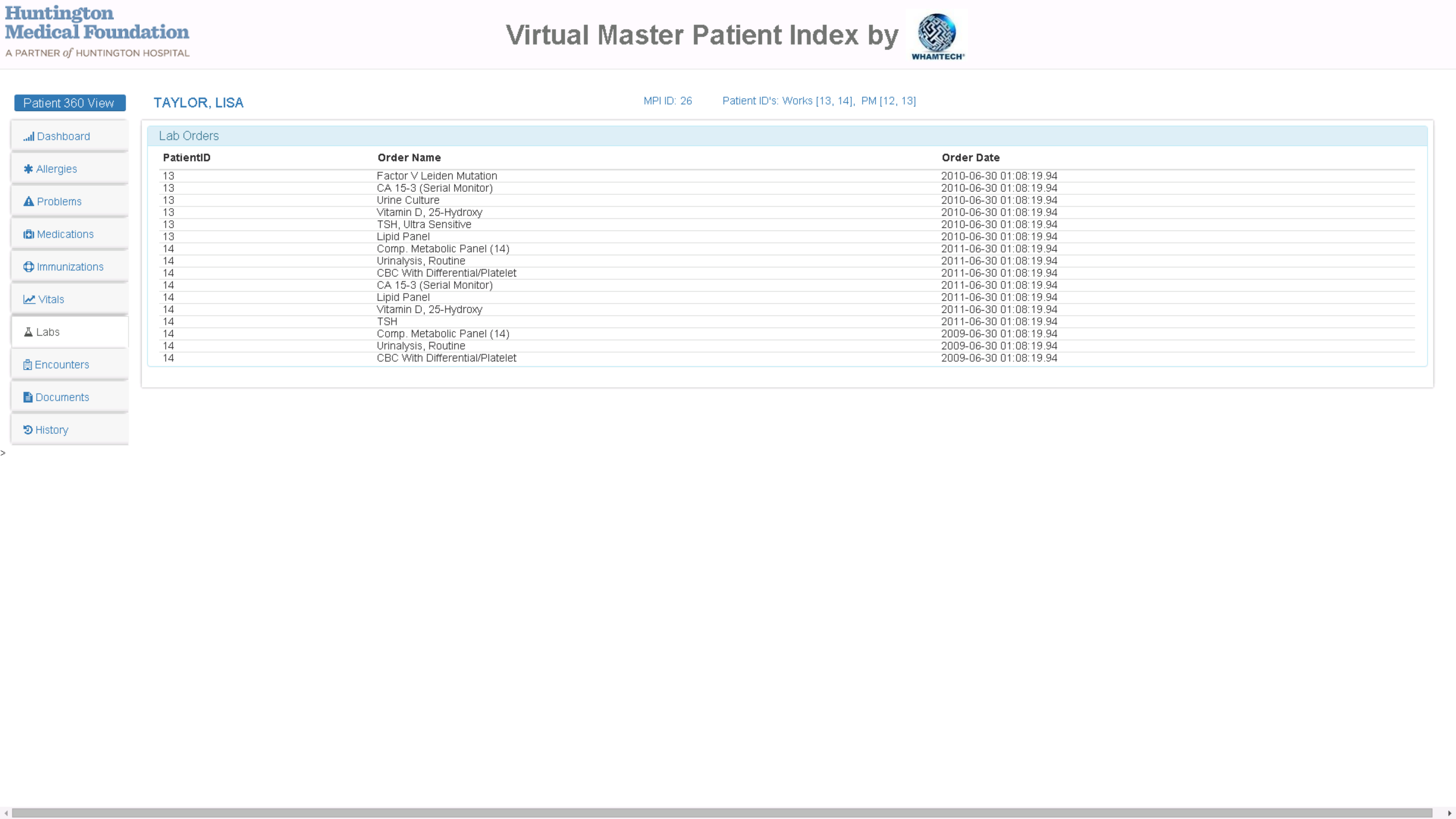
TAYLOR, LISA

MPI ID: 26

Patient ID's: Works [13, 14], PM [12, 13]

Vitals Info

Name	Value	Performed Date
BMI Calculated	34.83	2011-06-11 00:00:00.0
Systolic	120.2	2011-06-11 00:00:00.0
Diastolic	70.0	2011-06-11 00:00:00.0
Height	62.25	2011-06-11 00:00:00.0
Temperature	99.6	2011-06-11 00:00:00.0
Weight	150.8125	2011-06-11 00:00:00.0
O2 Saturation	99.0	2011-06-11 00:00:00.0
BSA Calculated	3.0	2011-06-11 00:00:00.0
Heart Rate	97.0	2011-06-11 00:00:00.0
BMI Calculated	34.83	2010-06-11 00:00:00.0
Systolic	120.2	2010-06-11 00:00:00.0
Diastolic	70.0	2010-06-11 00:00:00.0
Height	62.25	2010-06-11 00:00:00.0
Temperature	99.6	2010-06-11 00:00:00.0
Weight	145.8125	2010-06-11 00:00:00.0
O2 Saturation	99.0	2010-06-11 00:00:00.0
BSA Calculated	2.0	2010-06-11 00:00:00.0
Heart Rate	94.0	2010-06-11 00:00:00.0



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Patient 360 View
Dashboard
Allergies
Problems
Medications
Immunizations
Vitals
Labs
Encounters
Documents
History

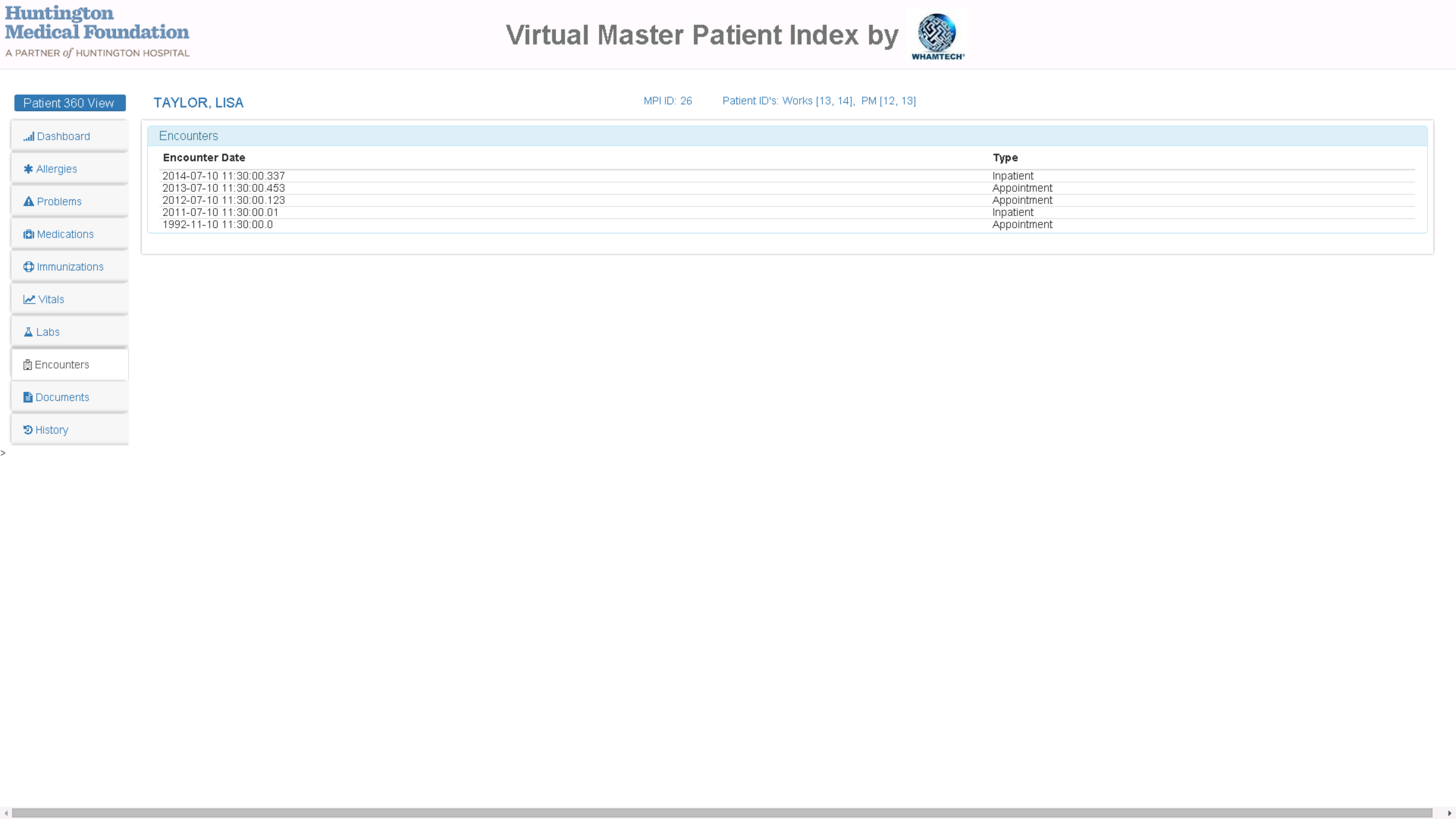
TAYLOR, LISA

MPI ID: 26

Patient ID's: Works [13, 14], PM [12, 13]

Lab Orders

PatientID	Order Name	Order Date
13	Factor V Leiden Mutation	2010-06-30 01:08:19.94
13	CA 15-3 (Serial Monitor)	2010-06-30 01:08:19.94
13	Urine Culture	2010-06-30 01:08:19.94
13	Vitamin D, 25-Hydroxy	2010-06-30 01:08:19.94
13	TSH, Ultra Sensitive	2010-06-30 01:08:19.94
13	Lipid Panel	2010-06-30 01:08:19.94
14	Comp. Metabolic Panel (14)	2011-06-30 01:08:19.94
14	Urinalysis, Routine	2011-06-30 01:08:19.94
14	CBC With Differential/Platelet	2011-06-30 01:08:19.94
14	CA 15-3 (Serial Monitor)	2011-06-30 01:08:19.94
14	Lipid Panel	2011-06-30 01:08:19.94
14	Vitamin D, 25-Hydroxy	2011-06-30 01:08:19.94
14	TSH	2011-06-30 01:08:19.94
14	Comp. Metabolic Panel (14)	2009-06-30 01:08:19.94
14	Urinalysis, Routine	2009-06-30 01:08:19.94
14	CBC With Differential/Platelet	2009-06-30 01:08:19.94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Patient 360 View
Dashboard
Allergies
Problems
Medications
Immunizations
Vitals
Labs
Encounters
Documents
History

Virtual Master Patient Index by

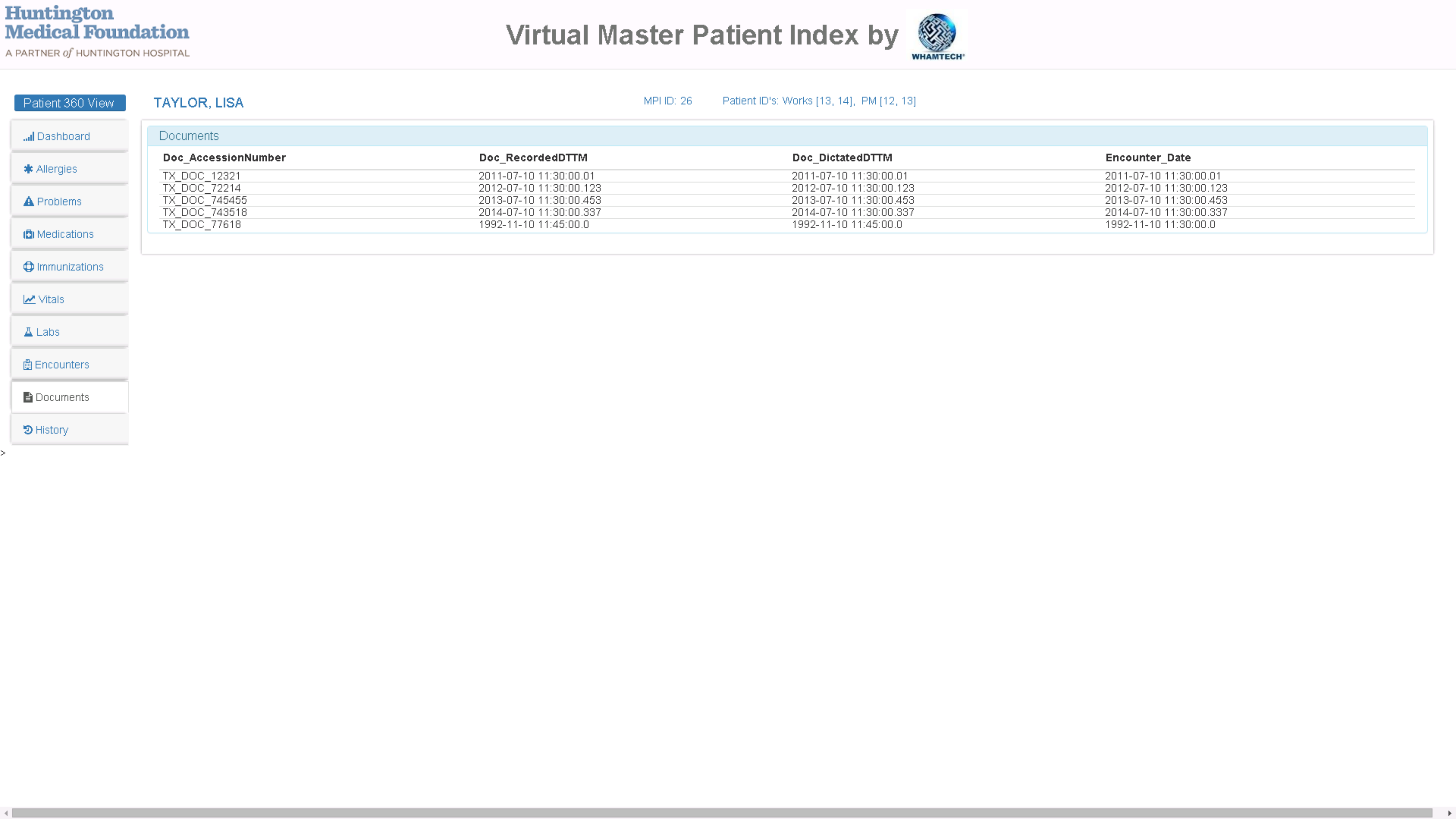
TAYLOR, LISA

MPI ID: 26

Patient ID's: Works [13, 14], PM [12, 13]

Encounters

Encounter Date	Type
2014-07-10 11:30:00.337	Inpatient
2013-07-10 11:30:00.453	Appointment
2012-07-10 11:30:00.123	Appointment
2011-07-10 11:30:00.01	Inpatient
1992-11-10 11:30:00.0	Appointment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Virtual Master Patient Index by
WHAMTECH
Patient 360 View
Dashboard
Allergies
Problems
Medications
Immunizations
Vitals
Labs
Encounters
Documents
History

TAYLOR, LISA

MPI ID: 26

Patient ID's: Works [13, 14], PM [12, 13]

Documents

Doc_AccessionNumber	Doc_RecordedDTTM	Doc_DictatedDTTM	Encounter_Date
TX_DOC_12321	2011-07-10 11:30:00.01	2011-07-10 11:30:00.01	2011-07-10 11:30:00.01
TX_DOC_72214	2012-07-10 11:30:00.123	2012-07-10 11:30:00.123	2012-07-10 11:30:00.123
TX_DOC_745455	2013-07-10 11:30:00.453	2013-07-10 11:30:00.453	2013-07-10 11:30:00.453
TX_DOC_743518	2014-07-10 11:30:00.337	2014-07-10 11:30:00.337	2014-07-10 11:30:00.337
TX_DOC_77618	1992-11-10 11:45:00.0	1992-11-10 11:45:00.0	1992-11-10 11:30:00.0

The End