Adapting Data Systems to Support Integrated STD/HIV Field Investigations at the Local Level

A Regional Response to End the HIV Epidemic in California

Ryan Murphy, PhD, MPH (CDPH STD Control Branch)
1/24/2020



Overview

Background

CalREDIE STD/HIV Field Investigation Incident (SHFII)

Background: Public Health Activities on Reported Cases of HIV/STD

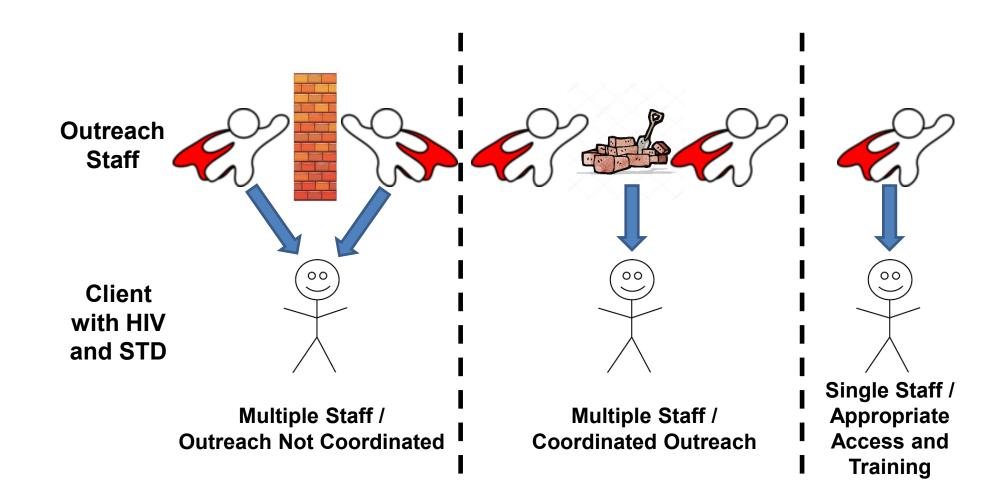
- Linkage/re-engagement in HIV care
- Tx verification or referral (STD)
- HIV/STD/HCV testing
- HIV pre-exposure prophylaxis (PrEP)
- Referral to other services
- Contact tracing (+ above, as appropriate)

Background: Data Collection — Prior Approach (RED = Database)

- Contact Tracing:
 - 1) HIV only $\rightarrow LEO$
 - HIV Testing Encounter
 - Risk Reduction Activities Encounter
 - Stand Alone Partner Information Form
 - 2) Ryan White funded \rightarrow ARIES
 - STD only or STD + HIV → CalREDIE

- Linkage/Re-engagement in care:
 - 1) HIV only \rightarrow LEO
 - HIV Counseling Information From (CIF)
 - Health Care HIV Test From (HTF)
 - Risk Reduction Activities (RRA) Form
 - 2) Ryan White funded \rightarrow ARIES
 - 3) If co-infected with STD →CalREDIE (duplicate data entry)

Variation among LHJs in level of Integration for STD/HIV Field Investigations





STD/HIV Field Investigation Incident (SHFII)

STD/HIV Field Investigation Incident (SHFII)

 A recently developed incident in CalREDIE that will be used to document health department follow-up activities for reported cases of STD and HIV

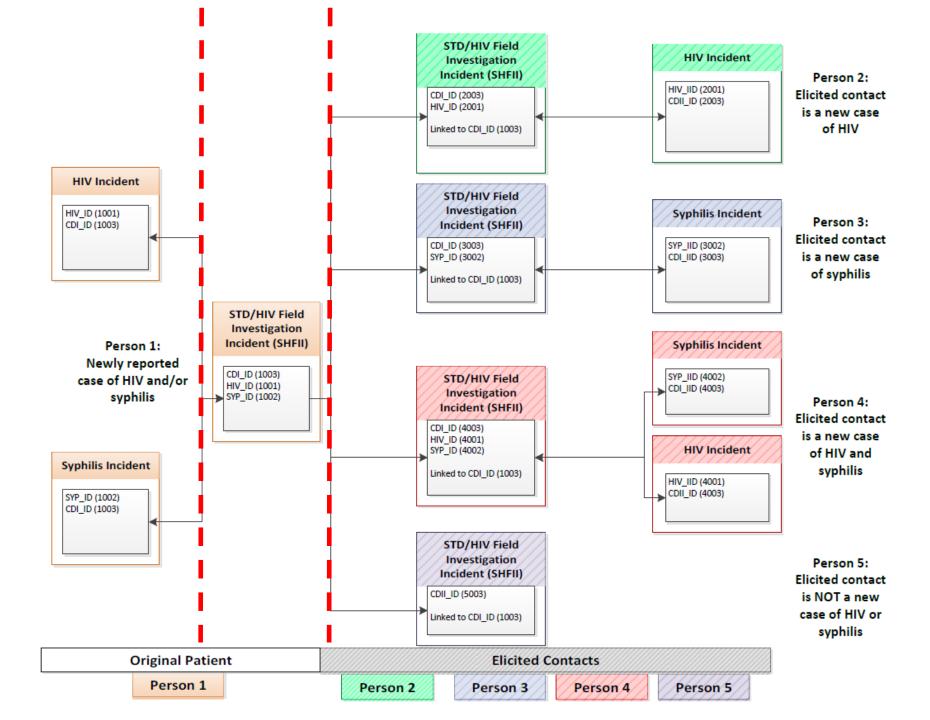


SHFII: Sections in CalREDIE

6 Sections:

- 1. Patient (system)
- 2. Investigation Tracking
- 3. Linkage to Care (HIV, STD, HCV, PrEP, other services)
- 4. Client Risk Information
- 5. Contacts
- 6. Case Investigation (system)

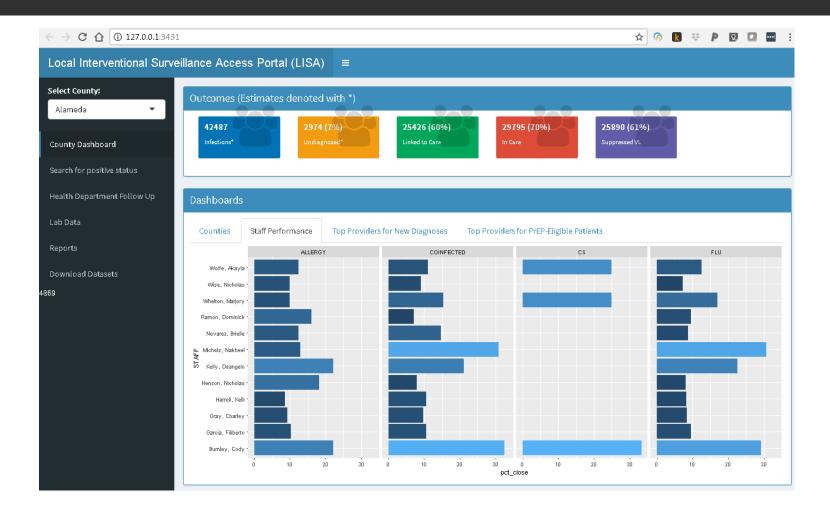
Proposed Record Flow in CalREDIE



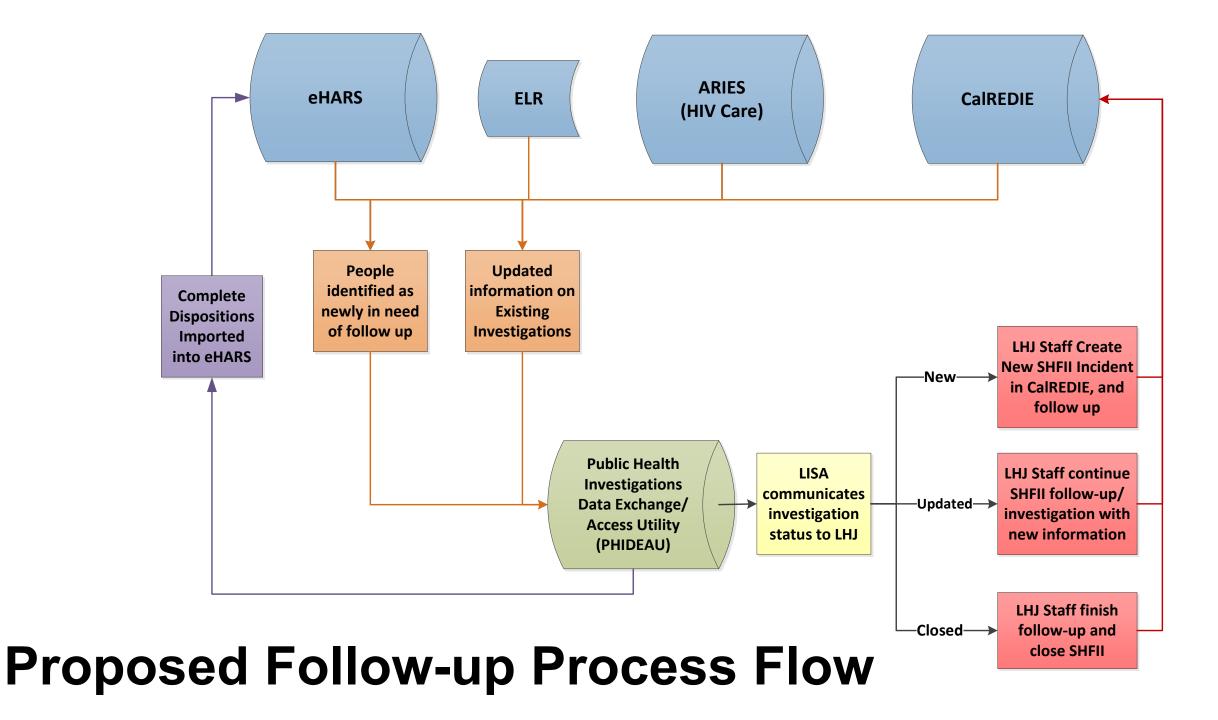
SHFII Development Process

- Local Health Jurisdiction (LHJ) learning sessions:
 - Visited 5 LHJs between June 2017 March 2018
- Presentations at Annual STD/HIV Controllers' Meeting
 - May 2018: Key Findings from Learning Sessions
 - May 2019: SHFII Demo & drop-in discussions
- Testing
 - Internal (July-September, 2019)
 - LHJs via WebEx & state staff (August, 2019)
 - Final checks and business rules (now)

- Nimble solution for two-way Local/State data exchange
 - Disseminate client-level and agency level actionable information
 - Timely (goal: as close to "real time" as possible)
 - Person-level priority and notifications for disease investigator caseload
- Overcome technical and statutory barriers
 - Provide LHJs access to eHARS
 - Integrated data from relevant OA/STD data systems
 - Cross-jurisdictional data sharing
 - Interface for administrative and programmatic feedback
- Create routine tasks and reports



	Diagnoses Not Linl	ked to Care Pre	valent Cases Out of Car	e Lost to Follow	Up Recent Detect	able Viral Load PrEP Eligible	
how 1	LO ▼ entries						Search:
	LName	♦ FName	♦ DOB	♦ DxDT	COUNTY	♦ PROVIDER	STAFF
1	Rodgers	Elisabeth	2000-01-21	2017-08-13	Sacramento	Sutter	Javier Gomez
2	Baker	Dakota	1968-12-12	2017-11-22	Sacramento	County PH Clinic	Michael Jones (DIS)
3	Price	Christian	1983-04-04	2017-09-10	Sacramento	HIV Specialist Org	Javier Gomez
4	Dixon	Aaron	1960-10-28	2017-11-22	Sacramento	Other HIV Specialist Org	Sarah Morton (DIS)
5	Chambers	Garrett	1995-01-20	2017-08-25	Sacramento	Kaiser	Javier Gomez
6	Vasquez	Alexia	1986-02-04	2017-03-18	Sacramento	Kaiser	Michael Jones (DIS)
7	Gardner	Mustaba	2000-11-30	2017-01-09	Sacramento	Other	Michael Jones (DIS)
8	Arneson	Brendon	1994-02-14	2017-09-17	Sacramento	Other HIV Specialist Org	Michael Jones (DIS)
9	Taylor	Eric	1988-11-04	2017-04-27	Sacramento	Small PMD	Sarah Morton (DIS)
10	Sandoval	Martin	1988-05-28	2017-11-22	Sacramento	County PH Clinic	Unassigned



- Supported by Office of AIDS Informatics Section in partnership with OA and STD Control Branch stakeholders
- Local Health Jurisdiction Advisory Group
 - Advise on LISA and other informatics projects development
 - Provide local testing and feedback on newly developed work items
 - Propose and define specifications for new functionality
 - Help OA/STD/Informatics prioritize development
 - Advise on local workflows and how informatics projects can enhance workflow

THANK YOU!

Office of AIDS

Will Wheeler, MPH PhD Lauren Nelson, MPH

STD Control Branch

Denise Gilson

CalREDIE

Deniz Dominguez, MHS
Sebastian Chavez
Allison Jacobsen, MPH
Larry Imel

SHFII - Screenshots



SHFII – Screenshots: Patient Tab

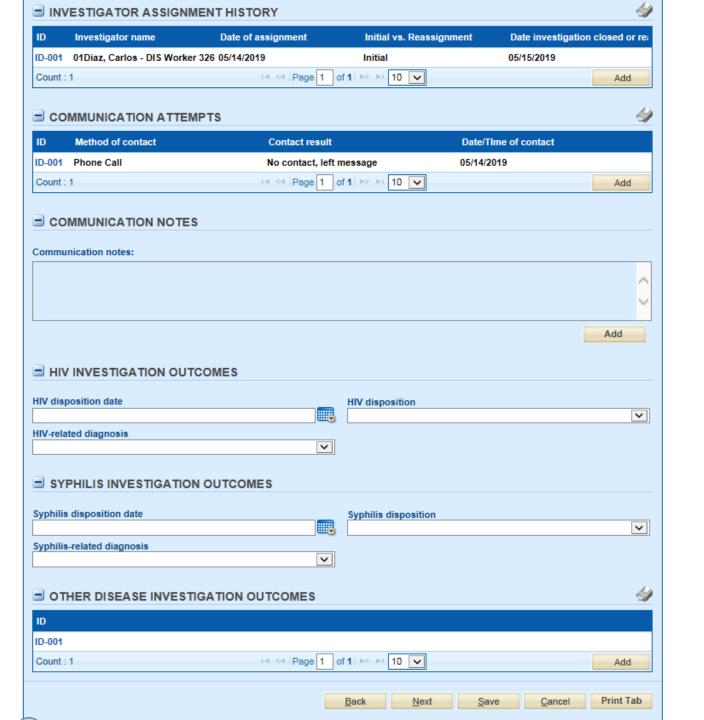




SHFII – Screenshots: Investigation Tracking Tab

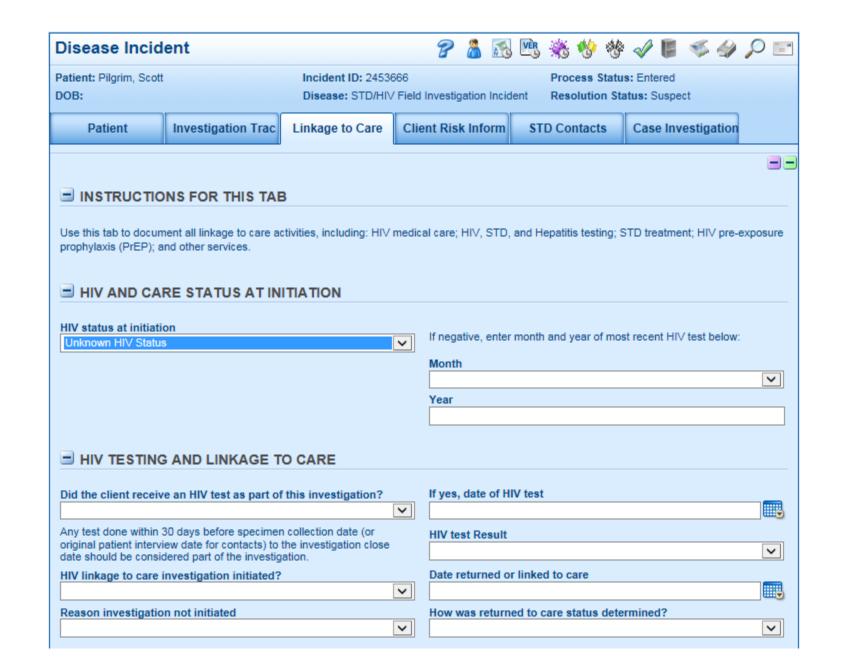


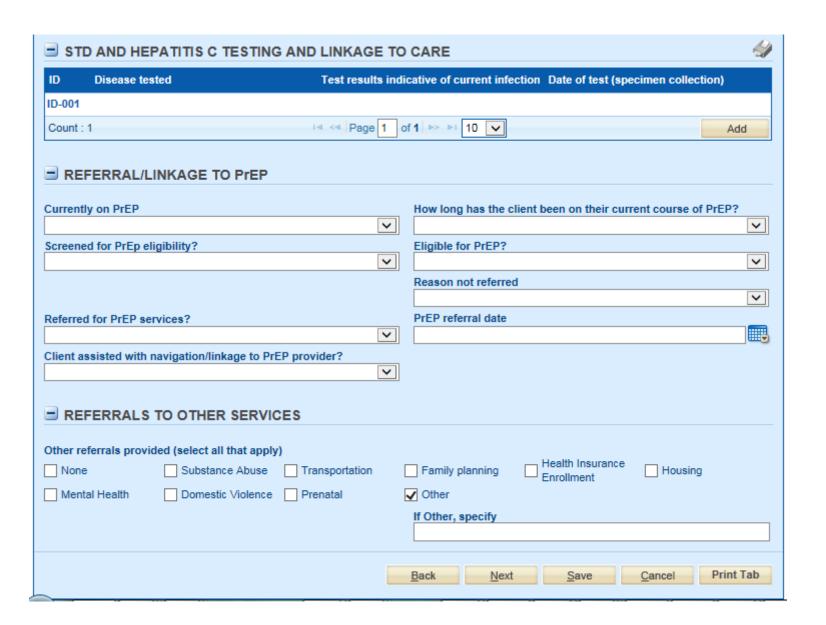
isease Incid	ent		P 🧥 🍇	4 🛢 🦈 🥝 🔎	
atient: Pilgrim, Scott OB:		Incident ID: 2453666 Process Status: Entered Disease: STD/HIV Field Investigation Incident Resolution Status: Suspect			
Patient	Investigation Trac	Linkage to Care	Client Risk Inform	STD Contacts	Case Investigation
■ INSTRUCTIO	NS FOR THIS TAE	В			ĺ
Use this tab to docum	ent the primary reason	for follow-up, investigati	on assignment history,	communication attempt	s, and investigation outcomes.
Primary reason for f	ollow up Contact to HIV/S	TD			
New report (lab/ACRF/CMR)		ork Out of care list (HIV) ☐ Virally unsuppressed	(HIV) ☐ Follow-up ser	ology Outbreak/Molecular
Neonatal exposure	В				
Date Initiated					
If this individual was in	INKED TO THIS II	edle or network contact			
to HIV or STD, list the Original patient ID	original patient ID below	w.			
Original patient ib					
If the individual was in sections below.	nitiated (or determined to	be) a case of HIV, syp	hilis, or other STD, list t	he corresponding disea	se incident ID numbers in the
Syphilis disease inc	ident ID		HIV disease inc	ident ID	
Other disease incide	ent ID				
PRIMARY RE	ASON FOR FOLL	.OW-UP: SEXUAL	, NEEDLE, OR CL	USTER CONTAC	т
Type of contact				oosure to original pati	
			<u> </u>		
Initiated as an app/w	ebsite contact?			osure to original pati	
			<u> </u>		



SHFII – Screenshots: Linkage to Care Tab

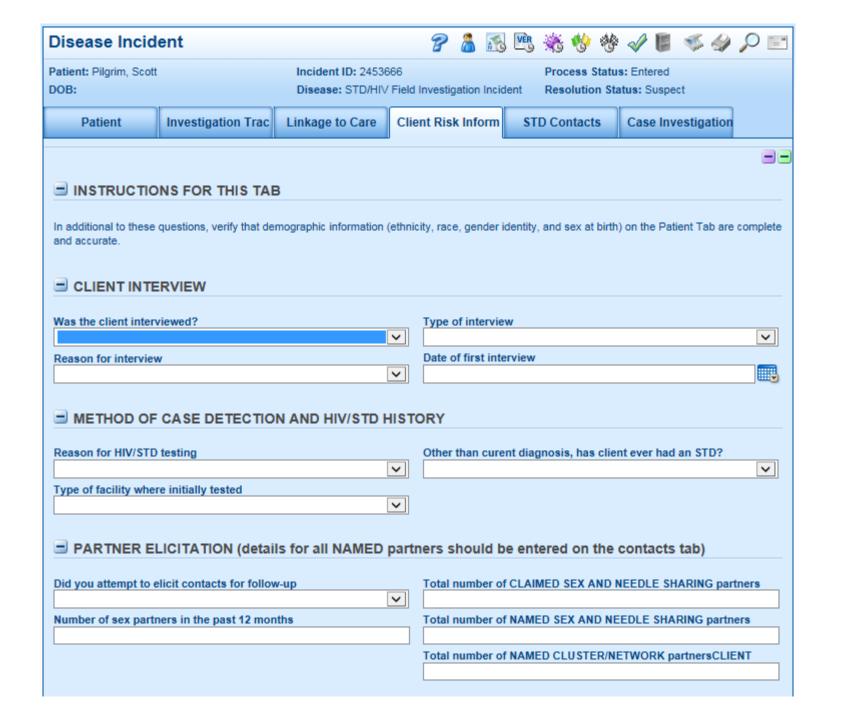




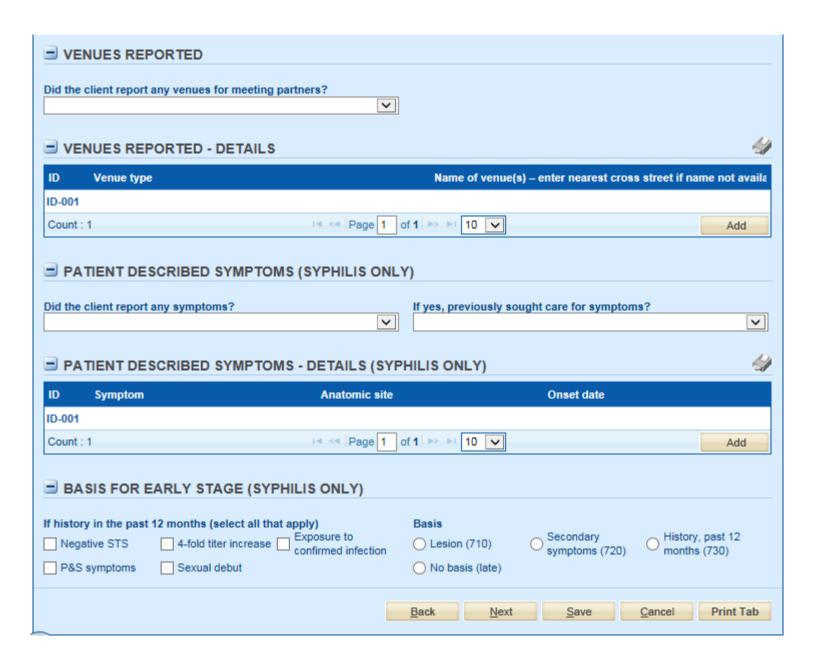


SHFII – Screenshots: Client Risk Information Tab



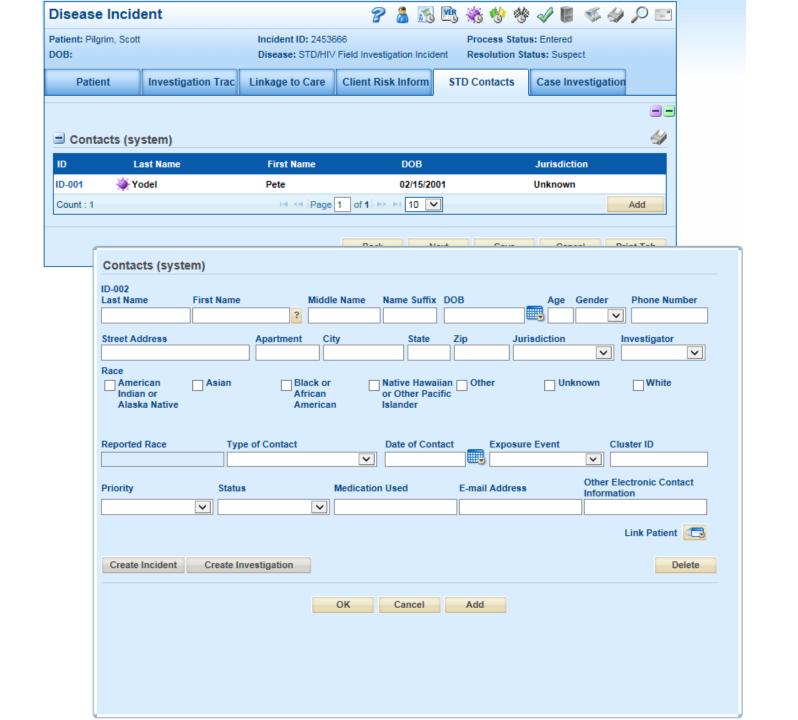


SEXUAL RISK INFORMATION										
Vaginal or anal sex in the past 12 months (select all that apply)										
None reported ☐ Refused ☐ Males ☐ Females ☐ Transgender/gender queer/non-binary										
Other sexual risk behaviors in the past 12 months (select all that apply):										
None reported Anonymous partners Received Gave drugs/money for sex for sex injection drugs Vaginal or anal sex without a condom										
Refused Sex while high/intoxicated										
Had sex with a pregnant partner in past 12 months (males only) Had sex with MSM in past 12 months (females only)										
■ SUBSTANCE USE										
Substance use past 12 months (select all that apply):										
None reported Methamphetamine Crack Prescription opiods Excessive alcohol Erectile dysfunction										
Refused Heroin Cocaine Cannabis Nitrates/Poppers Other										
If other, specify										
Injection drug use (12 months) No Yes, no needle Yes, needle sharing										
sharing sharing										
HOUSING STATUS										
Did the client experience any of these housing situations in the past 12 months (select all that apply)?										
None reported Refused Homeless Transitional/Unstabl home/Halfway Drug rehabilitation										
e housing house										
■ INCARCERATION										
INCARCERATION										
Has the client been to any of the following in the past 12 months										
Institutionalized at diagnosis? (select all that apply) None reported Jail Prison										
Refused Juvenile Hall										



SHFII – Screenshots: Contacts Tab





SHFII – Screenshots: Case Investigation Tab



