

Bureau of HIV and STI Programs

Guidelines for Using the Michigan Disease Surveillance System (MDSS) for Sexually Transmitted Infections (STIs)

Click to navigate to:

Chlamydia and Gonorrhea Case Completion

Deduplication and Re-Infection

Contact Information for MDHHS Staff

Overview of STI Surveillance

- Reportable conditions include chlamydia, gonorrhea, chancroid and syphilis.
- Reportable chlamydia-related sequelae include lymphogranuloma venereum (LGV) and pelvic inflammatory disease (PID).
- Reportable gonorrhea-related sequelae include pelvic inflammatory disease (PID), disseminated gonococcal infection (DGI) and opthalmia neonatorum (neonatal conjunctivitis).
- Chlamydia and gonorrhea are the two most common reportable conditions in Michigan and, along with other reportable sexually transmitted infections (STIs) and communicable diseases, often appear as coinfections or repeat infections in the same patient. Correctly managing investigation and patient data in the Michigan Disease Surveillance System (MDSS) is crucial for ensuring adequate treatment of patients and partners as well as gathering reliable epidemiologic data to inform public health interventions. Below is a brief guide for local health department (LHD) staff for managing STI cases within MDSS.
- Additional STI Resources
- Additional MDSS Resources

A note about dates in MDSS: Case Date, used for surveillance reports and other data products, is calculated first by looking at Onset Date (date of symptom onset OR date of specimen collection); if Onset Date is blank, Diagnosis Date is used; if both are blank, Referral Date is used.

When ref	erral date is		Red =	Required i	nformation		
much later than disease			Purple = S	upplemen	emental information		
	cimen date),		Greer	n = Note or	e or comment		
	et Date to						
correctly d	ate the case.	Invo	ignosis Date cann				
	Creat Date	trea	tment date. It car		ank.		
Investigation ID	Onset Date (mm/dd/yyyy)	Diagnosis Date (mm/dd/yyyy)	Referral Date (mm/dd/yyyy)	Cas (mm	Case Definitions:		
					Surveillance Case		
Investigation Status	Case Status				Definitions (CDC)		
Active ~		Confirmed - Non Resident	○ Not a Case ○ Non-Michigan Case				
	Patient Status Date			A A	<u>Confirmed</u> case is		
Patient Status	(mm/dd/yyyy)	Case Disposition	Case Updated Date (mm/dd/yyyy)		one which has		
			<u> </u>	la	aboratory evidence		
Date of Death (mm/dd/yyyy)	Investigator		Part of an outbreak?		of infection.		
	First Name:	Last Name:	`		A <u>Probable</u> case is		
_		Patient Inf	ormation		one which meets		
		T duont ini			presumptive		
Patient ID Fin	st	Last		la	aboratory evidence		
Street Address			In most cases, Patient Informatio		in the absence of		
				, n,	confirmatory		
City	County		including	_ la	boratory evidence,		
		<u> </u>	Demographics, i		or has symptoms,		
Home Phone (###-#################################	Ext.	Other Phone (###-##	reported by the	117 100	but no laboratory		
			laboratory initial	ly.	results (<i>'Probable'</i>		
Parent/Guardian (required if u	nder 18)	Last	D.G.d.	9	should not be used		
First		Last	Mide		for Chlamydia).		
Phone (###-###-####)	Ext.	L	IL	<u>N</u>	lot a Case indicates		
					that the patient is		
Case ID First Name	Last Name	Chlamydia (Genital) Case	Investigation Report		confirmed not		
-		Demogr	aphics	ir	nfected or does not		
Preferred Name		Sex at Birth		n	neet criteria above.		
		O Male O Female					
Gender Identity	0				come from the		
O Male O Female	O Trans to Female	O Trans to Male O Nonb		1R, eCR or	patient interview.		
Date of Birth mm/dd/yyyy		Age	Age Units O Days O Mo	onths Ox	Years		
			U Days U Mit				
Race (Check all that apply)	Black/African American	American Indian/Alask	a Native 🛛 Hawaiian/Pacif	ïc Islander	Asian		
Other (Specify)		Unknown	Refused to ans	wer			
Hispanic Ethnicity	0	0	Arab Ethnicity	0			
O Hispanic/Latino O Non-Hispanic/Latino O Unknown O Refused to answer							
Worksites/School		Occupations/Grade	MD	OC ID			
		l		/			

Very little data entry is required on these sections unless the lab report comes in with missing information.

	-	Referral Information			In most cases, Referral		
_	Person Providing Referral	rrson Providing Referral			Information is reported by		
	First	Last	Phone ###-#### [Ext. th	ne laboratory ii	nitially.	
	Primary Physician						
	First	Last	Phone ###-#################################	Ext. Ema	ail		
	Affiliation		Street Address			Course	
					Information		
	City	County	State	Zip	is the type o		
	Information Source:				which diagn		
/		✓			STI.		
	Case ID First Name	Last Name Gond	orrhea Case Investigation Report		<u>This is rec</u>	uired.	
	-	Labo	oratory Information				
	Name of Laboratory:	Phone: ###-#####	Ext.: Street Ad	dress:	Specimen Co	llection	
					Date is req		
	City:	County:	State:		Bace <u>15 req</u>		
		[13] =					
/	Specimen Collection Date: (mm/dd/yy	yy) 🔛 🗖	Lab Result Date (m	m/dd/yyyy)	Site of Spe	cimen is	
	Site of Specimen: O Blood/Serum	O Lesion-Genital	Ophthalmia/Conjunctiva		the source	e of the	
	O Cerebrospinal Fluid CSF	O Lymph Node Aspirate	O Rectal/Anal	O Vaginal	specimen c	ollected	
	O Cervix/Endocervix	Ocular Fluid	O Throat/Oropharynx	Other, spe	for test	ing.	
	C Lesion-Extra Genital	○ Otic Fluid	◯ Urethra	○ Synovial F			
	Lab Test Type		r Test, Spe	L	ab Result		
					•		
	specir In most case	es, laboratory in	formation, inclue	ding	Lab Test Type	andlah	
	Site of collection d	ate, specimen si	te and test type	and Urine	Result are re		
	oc result are	reported by the	laboratory initia	lly. Vaginal	Nesult <u>are re</u>	<u>quireu.</u>	
	O Cervix/Endocervix	Ocular Fluid	O Throat/Oropharynx	Other, spe	ecity:		
	O Lesion-Extra Genital	Otic Fluid	◯ Urethra	O Synovial F	Fluid	$ \dot{i}/\langle \cdot \rangle $	
	Unknown Lab Test Type	If Othe	r Test, Specify:	If a natier	If a patient has multi-site		
	v		n rest, Specify.		specimens co		
	Specimen Collection Date: (mm/dd/yyyy)		Lab Result Date (n		enter up to three in th		
	Site of Specimen:	yy)			ry Information		
	O Blood/Serum	C Lesion-Genital	Ophthalmia/Conjunctiva		ymormation	section.	
	Cerebrospinal Fluid CSF	U Lymph Node Aspirate	O Rectal/Anal	○ Vaginal ○ Other, spe	cify:		
	Cervix/Endocervix	Ocular Fluid	O Throat/Oropharynx				
	O Lesion-Extra Genital O Otic Fluid O Urethra O Synovial Fluid O Unknown O Urethra O Synovial Fluid						
	Lab Test Type If Other Test, Specify: Lab Result						
	If Culture Performed, enter Antimicrobial Susceptibility Testing Results for Gonorrhea						
	Antimicrobial Minimum Inhibitor Concentration (MIC) ug/ml	y AST specimen collection date (mm/dd/yyyy)	AST specimen collection site	tibility test method	Interpretation		
	Azithromycin		Dru	g resistance	e (gonorrhea o	nly)	
	Cefixime		If a cul	ture and su	sceptibility tes	ting is	
	Ceftriaxone		<u>complet</u>	ed, ent <u>er th</u>	e results of th	at in this	
	Ciprofloxacin				tion here.		
	Gentamicin			`	· · ·	/	
	Penicillin		~	```	· · ·	/	
	Tetracycline		✓	``````````````````````````````````````	· · ·	/	

Clinical Information This section is used to mark any sequelae of infection as well as patient history of STIs.

			history of STIs.	lient	
-	Clinical Complicat	ions			
Signs and Symptoms:]	
Gonorrhea-related sequelae present?				1	
Pelvic inflammatory disease (PID)		Select diag	nosis if applicable.		
Disseminated gonococcal infection (DGI)	<u> </u>				
Opthalmia neonatorum (neonatal conjunctivitis)			~		
STD History:		This can	be based on MDSS Per	son	
Patient has history of Gonorrhea infection?	O Yes O No				
Patient has Chlamydia co-infection?	O Yes O No	History	or the patient's medic	al	
Patient has Syphilis co-infection?	O Yes O No		record.		
-	Treatment Informa	tion 🚽	Treatment informati	on is	
Has patient been treated for THIS infection?	If yes, date of tre	atment: <i>(mm/dd/yyyy)</i>	<u>required.</u>		
○ Yes ○ No ○ Unknown					
Specify DRUG/DOSAGE (Check all that apply): RECOMMENDED TREATMENT Ceftriaxone (Rocephin) 500mg IM Ceftriaxone 1g IV or IM for 7 days (recommended treatment for Disseminated Gonococcal Infection) If chlamydia test is positive, or result is unknown, ALSO treat with Doxycycline (Vibramycin) 100mg orally 2 times per day for 7 days OUTDATED and INCORRECT TREATMENTS Ceftriaxone (Zithromax) 1g					
Treated by Provider (report contact information only if diffe	rent than primary provider)				
First: Last: Phone: ###.#### Ext.: Email:					
Street Address:	1				
City: County:	▼ State:	~	Zip:		
-	Partner Treatme	nt			
Partner will be notified by: Patient	Health Department Other:				
Number of partners treated by: In person at Health Department: In person at Private Provider: Not treated:	Treated by Expe Unknown Treatm	dited Partner Therapy (nent:	EPT):		
Case ID First Name Last Name	partners For more i	of the proba nformation a	ntains information abo able or confirmed case about expedited partn Information for Provid	er	

Local Health Departments and Other Organizations.

- Method of Case Detection:	Case	Management	t Data	Dete	ection is the notient
 ○ Screening ○ Health Department Referred Partn 	O Self-referred	O Patient Re	ferred Patient		ted for testing <u>is required.</u>
Is the patient pregnant? (women only) Yes No Unknown	Pregnancy stat		er		
Case Sampled for Enhanced Investigat O Yes O No O Unknown	tion females.		mission Category tatus <i>is</i>		~
HIV Status: O HIV Positive O HIV Nega	ntive O Equivocal HIV Test		uired.	r O Did Not A	Ask
Has the patient had sex with a male wit	thin the past 12 months?	Patient exp	osure fac	tors used to Answer	Did Not Ask
Has the patient had sex with a female v	within the past 12 months?	are calculate	ed by ans	Ners used to Answer	Did Not Ask
Has the patient had sex with an anonyr	mous partner within the past 12 m		with ma	used to Answer	Did Not Ask
Has the patient had sex with a person I	known to him/her to be an IDU wit	and/or sex		used to Answer	Did Not Ask
Has the patient had sex while intoxicate	ed and/or high on drugs in the pas		s which <u>aı</u> uired.	used to Answer	Did Not Ask
Has the patient exchanged drugs or mo	oney for sex within the past 12 mont		O Yes O N	o ORefused to Answer	Did Not Ask
Has the patient had sex with a person (women only)	who is known to be an MSM within t	the past 12 months?	⊖ _{Yes} ⊖ N	o Refused to Answer	Did Not Ask
Has the patient engaged in injection dru	ug use within the past 12 months?		⊖ _{Yes} ⊖ _N	o O Refused to Answer	Did Not Ask
Receptive sex?			⊖ _{Yes} ⊖ _N	o ORefused to Answer	Did Not Ask
Insertive sex?			⊖ _{Yes} ⊖ _N	o O Refused to Answer	Did Not Ask
	e following injection or non-injection cocaine Her rectile Dysfunction Medications (i.e.	roin	(select all that ap		
Has the patient been incarcerated withi	in the past 12 months?		⊖ _{Yes} ⊖ _N	o O Refused to Answer	Did Not Ask
Does the patient have a history of ever	having an STD prior to this STD dia	agnosis?	⊖ _{Yes} ⊖ _N	o ORefused to Answer	Did Not Ask
Has the patient ever met sex partners t	hrough the Internet in the last 12 m	onths?	⊖ _{Yes} ⊖ _N	o O Refused to Answer	Did Not Ask
Total number of sex partners in the pas	at 12 months? (enter 888 for refused	l, 999 for unknown)			
Insurance status			O Public Insur	ance O Private Insurar	nce OUninsured
Case ID First Name	Last Name Gono	rrhea Case Investigation	Report /	<u> </u>	Page 7
whe	litional case manage never available. Thi terns and populatic prev	is helps chara	cterize tra tics used	insmission	

Electronic Case Reporting

Electronic Case Reporting for STIs

Electronic case reporting (eCR) is the automated, realtime exchange of case report information between electronic health records (EHR) within healthcare facilities and MDSS. eCR is similar to electronic lab reporting (ELR) although eCRs are richer messages that contain additional clinical data. If an eCR is present within an investigation, you will find it as an attachment in the 'Notes'.

Relevant information that may be found within an eCR:

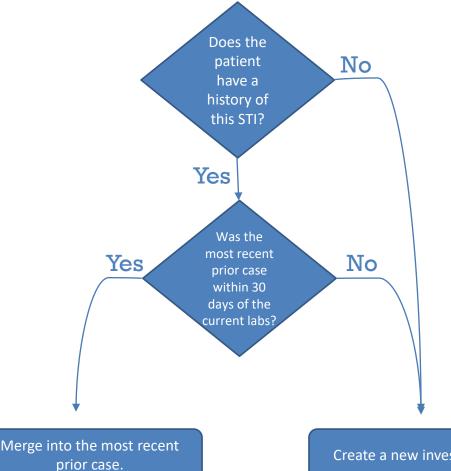
- Identifying information and demographic information, including email address, address history, secondary name, guardian information (etc.)
- Treatment information
- Immunization information
- Lab history
- Care notes
- Diagnoses
- Signs and symptoms
- Sex and gender information
- Social determinants of health information
- Pregnancy status

A note about eCRs in MDSS: Data provided within an eCR must be manually transferred to the appropriate fields within the investigation, including fields within the CRF. In most instances, the eCR should accompany an ELR, but not always. Always refer to CDC <u>Surveillance Case Definitions</u>. Additional eCR resources: <u>eCR-MDSS-Tip-Sheet.pdf</u> (<u>Michigan.gov</u>); <u>Electronic Case Reporting (eCR) (CDC)</u>. Please contact your regional epidemiologist or a state epidemiologist with questions around eCR.

Chlamydia and Gonorrhea De-Duplication

- If resolving patient de-duplication in the Pending Work Queue, many STI labs (and eCRs) will be merged into patients with a history of disease investigations, and it is necessary to determine if the current lab (or eCR) represents a new infection or should be merged into a previous investigation ID.
- By CDC case definitions, multiple diagnoses of an STI in one patient must be at least 30 days apart. To decide when to merge investigations versus creating a new one, use these guidelines:
 - By specimen collection date (lab) or event date (eCR), if the new lab (or eCR) for the same reportable condition is less than 30 days from the previous lab, merge into the existing or previous report.
 - If the new lab (or eCR) for the same reportable condition is more than 30 days from the previous lab (or eCR), create a new case.

Cases may be de-duplicated at any time using the "Dedup" button.



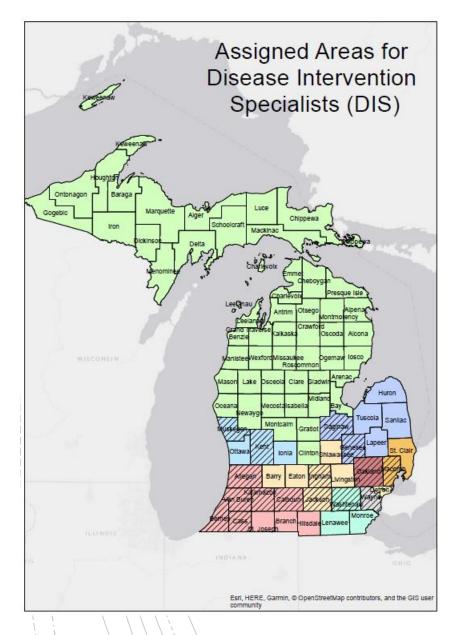
Please note that merging a case into a prior case could result in data loss. Before merging, review CRFs for both cases. The CRF for the case that you merge away will be erased; copy information over to the CRF that will remain following the merge. If you're unsure, please contact your regional epidemiologist or a state epidemiologist for assistance.

Create a new investigation.

Dedup

Syphilis De-Duplication

- Syphilis case de-duplication will be completed by MDHHS STI Epidemiology and surveillance staff. Local health departments should leave these to be reviewed by MDHHS staff or investigated by disease interventions specialists (DIS) by clicking "defer" in the pending work queue.
- Syphilis patients can be matched to existing MDSS patients by local health departments as part of the "Patient Dedup" work type in the pending work queue.



Contact Information for BHSP Staff

<u>Use SHOARS to</u> <u>request data,</u> <u>materials or</u> <u>technical assistance</u>.

Prioritizing STI Follow-up

Recommendations for Prioritizing STI Follow-up

Understanding that STIs are the most common reportable conditions, it may be necessary for local health departments to prioritize case reporting variables and patient follow-up based on available staff and other resources.

For STI prevention materials or technical assistance, visit <u>Michigan.gov/SHOARS</u>.

- Focus on health department STI clinic patients. Use records from your own clinic to complete case details for all cases diagnosed in house.
- Prioritize pregnant females, especially verification of treatment when a patient is known to be pregnant.
- Prioritize co-infected patients who have gonorrhea/chlamydia coinfections to double the return on your efforts in terms of disease transmissions prevented.
- Prioritize extra-genital infections when noted in the lab report as these patients may benefit from additional testing and/or PrEP referrals.
- Prioritize repeat infections (as seen in the MDSS person history) to offer partner testing or EPT as well as prevention counseling.
- Additional considerations based on local data and knowledge will also be critical in surveillance and prevention.