

DRAFT as of 5/17/2012

HL7 segments and fields: ODH requirements for electronic laboratory reporting of reportable infectious diseases

This document is draft as requirements may change over time; we will update as necessary. Some fields are not used in ODH's infectious disease surveillance system but are necessary for proper processing of an HL7 file.

		HL7 2.3.1 Supported	HL7 2.5.1 Supported	ODH REQUIRED?	miscellaneous info
segment	seq	element name			
MSH -required segment	1	field separator	field separator	Y	
	2	encoding characters	encoding characters	Y	
	3	sending application name	sending application		
	4	sending facility name	sending facility name	Y	CLIA needed as identifier
	5	receiving application	receiving application	Y	
	6	receiving facility name	receiving facility name	Y	
	7	date/time of message	date/time of message	Y	
	9	message type	message type	Y	
	10	message control ID	message control ID	Y	Use the standard format indicated in the implementation guide.
	11	processing ID	processing ID	Y	
	12	version ID (2.3.1)	version ID (2.5.1)	Y	
	15		accept acknowledgment type		do not populate if sending 2.5.1
	16		application acknowledgment type		do not populate if sending 2.5.1
	17		country code		
	21		message profile identifier		
<i>SFT - optional segment</i>	1		<i>software vendor organization</i>		
	2		<i>software certified version number</i>		
	3		<i>software product name</i>		
	4		<i>software binary ID</i>		
	5		<i>software product information</i>		
	6		<i>software install date</i>		
PID -required segment	1	Set ID - PID	Set ID - PID	Y	
	3	Patient identifier list (include ID in 3.1, ID type in 3.5 and assigning facility in 3.6.1)	Patient identifier list (include ID in 3.1, ID type in 3.5 and assigning facility in 3.6.1)	not required, but ODH uses	
	5	patient name	patient name	Y	
	6	mother's maiden name	mother's maiden name		
	7	date of birth	date of birth	Y	
	8	sex	sex	Y	
	9	patient alias			
	10	race	race	Y	
	11	patient address	patient address	Y	
	13	patient phone number - home	patient phone number - home	Y	
	14	patient phone number - business	patient phone number - business		
	16	marital status	marital status		
	17		religion		
	18		patient account number	not required, but ODH uses	
	21	mother's identifier	mother's identifier		
	22	ethnicity	ethnicity	not required, but ODH uses	
	23	country of birth	country of birth		
	24	multiple birth indicator	multiple birth indicator		
	25	birth order	birth order		
	26		citizenship		
27		veterans military status			
29	patient death date and time	patient death date and time			
30	patient death indicator	patient death indicator			
31		identity unknown indicator			
32		identity reliability code			
33		last update date/time			
34		last update facility			
35		species code			

	36	breed code		
	37	strain		
	38	production class code		
	39	tribal citizenship		
<i>NK1 - optional segment</i>	1	set ID	set ID	
	2	next of kin name	next of kin name	
	3	relationship	relationship	
	4	address	address	
	5	phone number	phone number	
	13		organization name	
	20		primary language	
	30		contact person's name	
	31		contact person's telephone number	
	32		contact person's address	
<i>PV1 - optional segment</i>	1	set ID	set ID	
	2		patient class	
	3		assigned patient location	
	4		admission type	
	5		preadmit number	
	6		prior patient location	
	7		attending doctor	
	8		referring doctor	
	9		consulting doctor	
	10		hospital service	
	11		temporary location	
	12		preadmit test indicator	
	14		admit source	
	17		admitting doctor	
	18		patient type	
	19		visit number	
	20		financial class	
	30		transfer to bad debt date	
	31		bad debt agency code	
	32		bad dept transfer amount	
	33		bad debt recovery amount	
	34		delete account indicator	
	35		delete account date	
	36		discharge disposition	
	37		discharged to location	
	38		diet type	
	39		servicing facility	
	40		bed status	
	41		account status	
	42		pending location	
	43		prior temporary location	
	44		admit date/time	
	45		discharge date/time	
	46		current patient balance	
	47		total charges	
	48		total adjustments	
	49		total payments	
	50		alternate visit ID	
	51		visit indicator	
	52		other healthcare provider	
<i>PV2 - optional segment</i>	3		admit reason	
	15		employment illness related indicator	
	23		clinic organization name	
	26		previous treatment date	
	29		first similar illness date	
	40		admission level of care code	
<i>ORC - required segment</i>	1		order control	
	2		placer order number	
	3		filler order number	
	4		placer group number	
	5		order status	
	6		response flag	

	8		parent		
	9		date/time of transaction		
	10		entered by		
	11		verified by		
	12		ordering provider		same value as OBR.16
	13		enterer's location		
	14		call back phone number		same value as OBR.17
	15		order effective date/time		
	16		order control code reason		
	17		entering organization		
	18		entering device		
	19		action by		
	21	ordering facility name	ordering facility name (if sending for 2.5.1, leave component 2 blank)	Y	both ordering facility info and ordering provider information are requested, and both must be sent if available but at least one is required (ordering provider name in OBR.16).
	22	ordering facility address	ordering facility address	Y	
	23	ordering facility phone	ordering facility phone	Y	
	24	ordering provider address	ordering provider address	Y	
	25		order status modifier		
	27		filler's expected availability date/time		
	28		confidentiality code		
	29		order type		
	30		enterer authorization mode		
	31		parent universal service identifier		
OBR - required segment	1	set ID	set ID		
	2		placer order number		
	3	Filler order number	Filler order number	Y	used as specimen ID for 2.3.1
	4	universal service ID	universal service ID	Y	
	7	observation date/time	observation date/time	Y	used as specimen collect date for 2.3.1
	8	observation end date/time	observation end date/time		
	9	collection volume			
	10	collector identifier	collector identifier		
	11		specimen action code		
	12		danger code		
	13	relevant clinical information	relevant clinical information	not required, but ODH uses	
	14	specimen received date/time	specimen received date/time		
	15	specimen source		Y	used as specimen type for 2.3.1
	16	ordering provider	ordering provider	Y	used as ordering provider
	17	order callback phone number	order callback phone number	Y	used as ordering provider phone
	18		placer field 1		
	19		placer field 2		
	20		filler field 1		
	21		filler field 2		
	22	results report/status change date/time	results report/status change date/time		
	23		charge to practice		
	24		diagnostic service ID		
	25	result status	result status	Y	
	26	parent result	parent result		
	28		result copies to		
	29	parent	parent		
	31	reason for study	reason for study		
	32		principal result interpreter		
	33		assistant result interpreter		
	34		technician		
	35		transcriptionist		
	36		scheduled date/time		
	39		collector's comment		
	44		procedure code		
	45		procedure code modifier		
	46		placer supplemental service information		
	47		filler supplemental service information		
	48		medically necessary....		
	49		result handling		
	50		parent universal service id		

TQ1 - optional					
OBX - required segment	1	set ID	set ID	Y	
	2	value type	value type	Y	
	3	observation identifier	observation identifier	Y	standardized LOINC coding (test/question)
	4	observation sub-ID	observation sub-ID	Y	
	5	observation value	observation value	Y	standardized SNOMED coding where appropriate (result/answer)
	6	units	units	Y	if applicable
	7	reference ranges	reference ranges	Y	if applicable
	8	abnormal flags	abnormal flags	not required, but ODH uses	S/I/R results for susceptibility testing can be in this field
	9		probability		
	10		nature of abnormal test		
	11	observation result status	observation result status	Y	
	12		effective date of reference range		
	13		user defined access checks		
	14	date/time of observation	date/time of observation	Y	used as result date for 2.3.1; (in 2.5.1 this is specimen collect date, same as SPM 17; SPM 17 is what we use)
	15	producers ID	producers ID	Y	used as performing lab for 2.3.1 (CLIA in 15.1, name in 15.2)
	16		responsible observer		
	17	observation method	observation method		
	18		equipment instance identifier		
	19		date/time of analysis	Y	used as result date for 2.5.1
	23		performing organization	Y	used as performing lab for 2.5.1; CLIA in component 10, name in component 1; leave component 2 blank
	24		performing organization address		
	25		performing organization medical director		
SPM - required for 2.5.1 ODH constraint of one SPM segment per message	1		set ID		
	2		specimen ID	Y	used as specimen ID for 2.5.1
	3		specimen parent IDs		
	4		specimen type	Y	used as specimen type for 2.5.1
	5		specimen type modifier		
	6		specimen additives		
	7		specimen collection method		
	8		specimen source site		
	9		specimen source site modifier		
	10		specimen collection site		
	11		specimen role		
	12		specimen collection amount		
	13		grouped specimen count		
	14		specimen description		
	15		specimen handling code		
	16		specimen risk code		
	17		specimen collection date/time	Y	used as specimen collect date for 2.5.1
	18		specimen received date/time		
	19		specimen expiration date/time		
	20		specimen availability		
	21		specimen reject reason		
	22		specimen quality		
	23		specimen appropriateness		
	24		specimen condition		
	25		specimen current quantity		
	26		number of specimen containers		
	27		container type		
	28		container condition		

	29		specimen child role		
NTE - optional segment	1	set ID	set ID		
	2		source of comment		
	3	comment	comment	not required, but ODH uses	
	4		comment type		

Additional ODH constraints: if susceptibilities are sent, a culture test must accompany them and there can only be one set of susceptibility results per message.