Composite Variable Definitions

For All Testing and HERR forms implemented 07/12

What Are Composite Variables?

Definition

Composite variables are variables that are constructed from more than one response option on an encounter form.

Explanation

In some cases it's obvious how questions on an encounter form correspond to values for a variable. For example, the values from a variable we might call "TestedBefore" are "Yes," "No," "Client doesn't know," or "Declined to answer." Since these values map precisely onto the response options for a single question on the encounter form, little additional explanation is needed regarding how they were derived or what they mean.

In other cases it is less obvious. For instance, although many reports provide data on men who have sex with men (MSM) there is no single question or response item on the form to indicate whether a record should be categorized as MSM. Instead, LEO uses responses from multiple questions, including gender, partner type, and sexual behavior to determine whether the client is MSM or not.

LEO has been programmed to store composite variables which have been carefully standardized across forms, and to use them for consistent reporting. To fully understand reports, you must first understand how the various composite variables are constructed. This document explains each composite variable in detail.

Gender

This composite is constructed from "Current Gender Identity" and "Sex Assigned at Birth."

	Gender Identity	1	Birth Gender	
	Male	Female	Intersex	Missing or D/R
Male	Male	Trans FTM	Male	Male
Female	Trans MTF	Female	Female	Female
Trans MTF	Trans MTF	Trans MTF	Trans MTF	Trans MTF
Trans FTM	Trans FTM	Trans FTM	Trans FTM	Trans FTM
Other	Other	Other	Other	Other
Missing or D/R	Male	Female	Other	Unknown

Race

This composite assigns a mutually exclusive category for race even when multiple races are reported. It prioritizes non-white races in that if a client reports being both white and non-white, they are assigned to the non-white category. This is designed to ensure we do not undercount priority populations served, such as African-American or Latino clients.

Variable	Definition
Latino	The client reports they are Latino (even if
	other races are checked, the client's
	race/ethnicity shows up as Latino in the
- · · · · · · · · · · · · · · · · · · ·	race composite)
Black/African American	Black/African American is the only race
	selected OR
	Black/African American is selected along
	with one of the following races: White,
	Other*, or Unknown
American Indian/Alaskan Native	American Indian/Alaskan Native is the
	only race selected
	OR
	American Indian/Alaskan Native is
	selected along with one of the following
	races: White, Other*, or Unknown
Asian	Asian is the only race selected
	OR
	Asian is selected along with one of the following races: White, Other*, or
	Unknown
Native Hawaiian/Pacific Islander	Native Hawaiian/Pacific Islander is the
	only race selected
	OR
	Native Hawaiian/Pacific Islander is
	selected along with one of the following
NATIL: 1 c	races: White, Other*, or Unknown
White	White is the only race selected OR
	White is selected along with one of the
	following race options: Other*, Unknown,
	or Declined/Refused
Other	Only Other* race is selected
Unknown	No race is selected
	OR
	Only Unknown race is selected
	OR
Multi roo	Only Declined/Refused is selected
Multi-race	Two or more of the following races are
	selected: Black/African American, American Indian/Alaskan Native, Asian,
	Native Hawaiian/Pacific Islander
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Risk Group (hierarchy)

The table below represents the composite variables that ultimately make up the hierarchical mutually-exclusive variable for Risk Group. With the exception of No Risk (NIR) and No Reported Risk (NRR) [which exclude the categories above them], each composite variable is initially calculated independently, and records may fall into multiple categories. These categories are then used *in the order listed below* to create the hierarchical/mutually exclusive version of the risk group variable that is used in reports.

Variable/Value	Definition			
	CIF	HE/RR (GSAQ	
HIV+ self-report	Defined same as	Most recent result (self	f-reported) =	
	HE/RR, but do not	positive or preliminary		
	use in highest risk			
	code for C&T			
	reports			
Transgender		Trans MTF OR Trans F		
MSM		= Male or Transgender MTF AND:		
	Had vaginal or anal s	sex with a male = Yes OR		
		al sex with a transgender = Yes OR		
	Had oral sex with a r			
	Had oral sex with a t			
MSM/IDU	MSM composite = Yo			
IDU	_	o inject drugs in past 12 months = Yes		
HIV+ Partner		o is HIV + = Yes for Male Partner, Female Partner, OR		
_	TG Partner			
Sex Worker	Received money, drugs, or other items for sex = Yes			
IDU Partner		= Yes for Male Partner,	Female Partner,	
	OR TG Partner			
MSM Partner		Male AND "known to ha	ave had sex with a	
	male" = Yes			
Sex Worker	Has had sex with someone who exchanges sex for drugs or			
Partner	money = Yes	,		
Syphilis/Gonorrhea	STD Diagnosis = syphilis OR gonorrhea (or syphilis/gonorrhea/			
Non IDH Otherson	chlamydia for catego			
Non-IDU Stimulant User	IDU composite = No AND Used these drugs = Stimulants AND			
Heterosexual	(MSM = Yes OR Heterosexual composite = Yes) Heterosexual composite = Yes AND Number of vaginal or anal			
Multiple Partner				
Multiple Partilei	definition]	e below for Heterosexua	ii composite	
Heterosexual		eita - Vas AND Numba	r of vaginal or anal	
Single Partner	Heterosexual composite = Yes AND Number of vaginal or anal			
onigie i altilei	sex partners ≤ 1 (including missing). [see below for Heterosexual composite definition]			
Other Risk	Other HIV behavior/exposure risk = Yes			
No Risk (NIR)		of the risk categories abo	ove AND	
	1	vith Male partner = No A		
		vith Female partner = No		
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	Vaginal or anal sex with TG partner = No AND
	Used a needle to inject drugs (12 months) = No
No Reported Risk	Did not fall into any of the risk categories above AND Client
(Missing Data)	asked about risk factors = (2) not asked OR (3) declined
	OR –
	Did not fall into any of the risk categories above AND
	Vaginal / anal sex with Male partner = Declined/missing OR
	Vaginal / anal sex with Female partner = Declined/missing OR
	Vaginal or anal sex with TG partner = Declined/missing OR
	Used a needle to inject drugs (12 months) = Declined/missing

Risk Group (non-hierarchy)
The table below represents risk variables that may be used: 1) to support definitions in the hierarchical variable above (e.g., heterosexual); 2) to report on target populations (e.g., secondary co-factors, etc.).

(e.g., secondary co-ra	ciors, etc.).		
Variable	Definition		
	CIF	HE/RR	GSAQ
Heterosexual	Gender composite =	Male AND	
	MSM composite = No AND		
	Vaginal, anal, OR oral sex with a female = Yes		
	OR –		
	Gender composite = Female AND		
	Vaginal, anal, OR oral sex with a male = Yes		
Non-IDU	IDU ≠ Yes AND		
Substance	Number of alcoholic drinks ≥ 4 OR		
User	Stimulants OR Heroin OR Prescription Opioids OR Poppers =		
	Yes AND		
	MSM = Yes OR Heterosexual composite = Yes		
Non-Gay	MSM = Yes AND Sexual Orientation = Heterosexual or Straight		
Identified			
Homeless*	[Are you currently] ho	omeless = Yes	
Incarcerated*	Have you been in jail	/prison [incarcerated]	more than 24 hours
	= Yes		
Migrant Worker*	[Are you currently a]	migrant = Yes	
Female with	Gender composite =	Female AND Heteros	exual Single Partner
Unknown Risk	= Yes		
(was 'non-			
identified			
risk')			

Risk Level

This variable stores 'groupings' of the hierarchical Risk Group variable, as defined below.

Variable	Definition		
	CIF	HE/RR	GSAQ
High Risk	Transgender, MSM, MSM/IDU, IDU, HIV+ Partner, OR Sex		
	Worker = Yes		
Moderate Risk	IDU Partner, MSM Partner, Sex Worker Partner,		
	Syphilis/Gonorrhea		
	Diagnosis, OR Stimu	ulant User = Yes	
Low Risk	Het Multiple Partner,	Het Single Partner, O	ther Risk, OR NIR
	(No Risk) = Yes		
Unknown Risk	NRR (No Reported F	Risk) = Yes	

Positive Type

This variable is used to distinguish between newly-identified confirmed positives, confirmed positives who report a previous confirmed positive result, and preliminary positives. This variable relies on current testing outcome, so is not relevant for non-testing forms.

Variable/Value	Definition
	CIF
Newly-Identified	Final HIV status = Positive AND "most recent result received"
Confirmed	does not = Positive
Positive	
Previous	Final HIV status = Positive AND "most recent result received" =
Confirmed	Positive
Positive	
Preliminary	Final HIV status = Preliminary Positive
Positive	

Age Group

This variable is used to categorize clients into groups according to their age at the initial encounter based on reported birthdate. If birthdate is missing, age is 'unknown.' Age groupings are designed to match population targeting co-factors (accessed in intervention set-up screens).

Age Groups
0 – 12
13 – 18
19 – 24
25 – 34
35 – 44
45+
Unknown