

**Web only Table – Multivariate analysis of risk profiles among HIV-infected men who have sex with men (MSM) co-infected or not with HCV: data from the French national survey ANRS VESPA2**

	<b>All individuals</b>	<b>HCV co-infected</b>		<b>Univariate analyses</b>		<b>Multivariate model A</b>		<b>Multivariate model B</b>	
	<b>n=1037</b>	<b>yes</b>	<b>no</b>						
		<b>(n=93)</b>	<b>(n=944)</b>						
	% of individuals or mean (SE)	% of individuals or mean (SE)		OR [95% CI]	p-value	AOR [95% CI]	p- value	AOR [95% CI]	p-value
<b>SOCIO-DEMOGRAPHIC CHARACTERISTICS</b>									
<b>Age (in years)</b>	47 (10)	46 (8)	47 (10)	0.99 [0.97; 1.01]	0.29	0.94 [0.89; 0.99]	0.04	0.94 [0.89; 0.99]	0.03
<b>Educational level (1 missing value)</b>									
- primary school	33.9	33.6	37	1.30 [0.58; 2.91]	0.51				
- high school (ref.)	19.4	19.7	16.7	-	-				
- university	46.7	46.7	46.3	1.17 [0.56; 2.43]	0.66				
<b>Employed</b>	66.7	66.8	65.0	0.92 [0.48; 1.78]	0.81				

<b>Monthly household income per adult equivalent (€)(12 missing values)</b>	2378 (1685)	2200 (1653)	2395 (1688)	0.99 [0.99; 1.01]	0.49				
<b>Financial difficulties<sup>1</sup></b>	46.0	57.8	44.8	1.69 [0.93; 3.06]	0.08				
<b>Comfortable housing<sup>2</sup> (3 missing values)</b>	78.1	80.0	77.9	1.13 [0.97; 2.27]	0.72				
<b>HIV-RELATED CHARACTERISTICS &amp; HISTORY OF STIS</b>									
<b>HIV diagnosis after 1996</b>	53.8	40.8	55.1	0.56 [0.32; 0.98]	0.04	0.02 [0.01; 0.53]	0.02	0.02 [0.01; 0.41]	0.01
<b>HIV diagnosis after 1996*Age (interaction term)</b>	-	-	-	-	-	1.07 [1.01; 1.15]	0.04	1.07 [1.01; 1.15]	0.03
<b>Not receiving ART</b>	7.2	2.0	7.7	0.24 [0.04; 1.31]	0.10				
<b>Undetectable HIV viral load (17 missing)</b>	76.1	70.1	76.6	0.72 [0.35;1.48]	0.36				

values)									
<b>CD4&gt;500</b> ( <i>cells/mm<sup>3</sup></i> )(4 missing values)	63.7	53.4	64.7	0.63 [0.35; 1.11]	0.11				
<b>STI during the previous 12 months<sup>3</sup></b>	13.0	22.6	12.1	2.12 [1.11; 4.05]	0.02				
<b>BEHAVIORAL CHARACTERISTICS</b>									
<b>Current or past IDU</b> (1 missing value)	5.7	33.3	3.0	16.06 [7.92; 32.56]	<0.0001	20.26 [9.52;43.1]	<0.0001	18.86 [8.96;39.73]	<0.0001
<b>Binge drinking<sup>4</sup></b> (1 missing value)	55.6	60.3	55.1	0.81 [0.43; 1.52]	0.50				
<b>Finding sexual partners in virtual venues<sup>5</sup></b>	34.5	38.4	34.1	1.21 [0.65; 2.26]	0.55				
<b>Finding sexual partners in physical venues<sup>6</sup></b>	55.3	49.4	55.9	0.77 [0.43; 1.39]	0.38				

**SEXUAL RISK BEHAVIORS****No. of male sexual partners during the previous 12 months ♦**

- 1	28.8	17.3	29.9	0.65 [0.30; 1.44]	0.28		
- 2 to 4 (ref.)	23.7	21.2	23.9	-	-		
- 5 to 9	13.4	14.0	13.4	1.18 [0.38; 3.71]	0.77		
- 10 to 19	13	10.5	13.2	0.90 [0.35; 2.29]	0.81		
- at least 20	21.1	37.0	19.5	2.14 [0.97; 4.70]	0.06	2.76 [1.45; 5.24]	0.002

**ICU during insertive or receptive anal****intercourse ♦**

- no (ref.)	76.5	65.0	77.7	-			
- yes, only with main partner	14.7	13.2	14.9	1.06 [0.44; 2.55]	0.89		
- yes, with casual partners <sup>8</sup>	8.7	21.8	7.5	3.50 [1.61; 7.61]	0.002	2.77 [1.18; 6.49]	0.02

**Fist-fucking (*fisting*)**

- no (ref.)	91.9	85.8	92.5	-			
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- yes, only with main partner	3.3	3.2	3.3	1.03 [0.21; 4.98]	0.97		
- yes, with casual partners <sup>7</sup>	4.8	11	4.2	2.83 [0.96; 8.38]	0.06		
<b>Using drugs during sex<sup>8</sup></b>							
- no (ref.)	96.0	92.1	96.4	-			
- yes, only with main partner	2.9	3.8	2.8	1.40 [0.35; 5.7]	0.66		
- yes, with casual partners <sup>7</sup>	1.1	4.2	0.8	5.56 [1.63; 19.00]	0.007		
<b>Using alcohol during sex</b>							
- no (ref.)	84.7	90.8	84.1	-			
- yes, only with main partner	9.5	6.5	9.7	0.61 [0.20; 1.88]	0.39		
- yes, with casual partners <sup>8</sup>	5.8	2.7	6.1	0.42 [0.11; 1.59]	0.20		
<b>Participating in sex parties<sup>9</sup></b>	3.8	11.3	3.1	4.01 [1.87; 8.63]	0.001	3.79 [1.30; 11.02]	0.01
<b>Having paid/having been paid for sex during the previous 12 months</b>	4.6	7.2	4.3	1.72 [0.68; 4.37]	0.25		

**HCV RISK LEVELS<sup>10</sup>**

-low risk (ref.)	88.4	67.6	90.4	-		-	
-medium risk	8.5	14.1	8.0	2.36 [0.86; 6.44]	0.10	2.88 [0.90; 9.25]	0.075
-high risk	3.1	18.3	1.6	14.35 [6.80; 32.7]	<0.0001	22.86 [9.74; 53.62]	<0.0001

AOR = adjusted odds ratio; ART = antiretroviral therapy; CI = confidence interval; ICU = inconsistent condom use; IDU = injecting drug use; OR = odds ratio; SE = standard error; STI = sexually transmitted infections.

A: Multivariate analysis including all eligible variables (p<0.20 in the univariate analyses).

B: Multivariate analysis including all eligible variables except sexual risk behaviors, which were replaced by the three-level categorical risk variable.

◆ Variable categories with not significantly different odds ratio were grouped together in the multivariate analyses.

<sup>1</sup> Individual's perceptions.

<sup>2</sup> Owners or renters who reported satisfactory or very satisfactory housing conditions were considered to have comfortable housing.

<sup>3</sup> At least one among the following sexually transmitted infections (STIs): syphilis, lymphogranuloma venereum (LGV), gonorrhea, condyloma, other STIs (self-report).

<sup>4</sup> Defined as consuming at least six alcohol drinks on one specific occasion.

<sup>5</sup> Including internet, mobile phone and advertisements.

<sup>6</sup> Including backrooms, saunas, bars, night clubs, adult video shops, outdoor gay meeting places, public places, sex parties, and friends' home.

<sup>7</sup> Whether or not condom was used with the main partner.

<sup>8</sup> Among: ecstasy, cocaine, GHB, amphetamines, ketamine, mephedrone.

<sup>9</sup> During the most recent sexual encounter with a casual partner.

<sup>10</sup> A risk-level variable was defined as follows: a “low risk” category included individuals having a maximum of one risk factor among eligible sexual risk factors, a “medium risk” category included those having two risk factors, and a “high risk” category included those having at least three risk factors