

Undiagnosed HIV and Hepatitis C infection among people who inject drugs

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Introduction



 Drug-related infectious diseases such as HIV and hepatitis C are among the most serious health consequences of injecting drug use.

 Many drug users are not aware of their HIV serostatus and this figure is likely to be higher for other infections such as hepatitis C.









Hepatitis C Virus Infection Epidemiology among People Who Inject Drugs in Europe: A Systematic Review of Data for Scaling Up Treatment and Prevention

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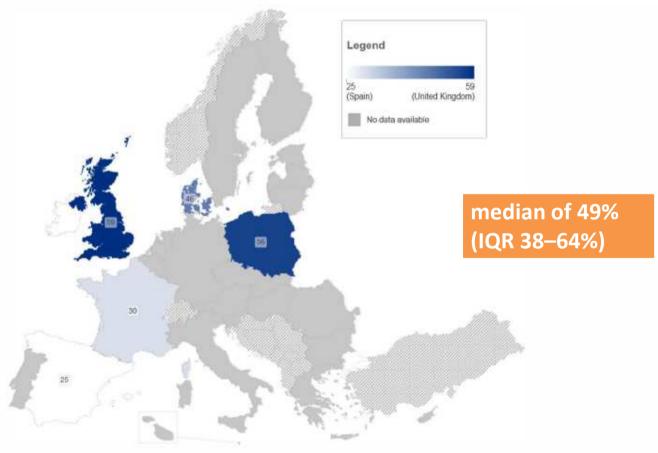


Figure 6. Proportion (%) of HCV positive PWID (antibody or RNA) undiagnosed.



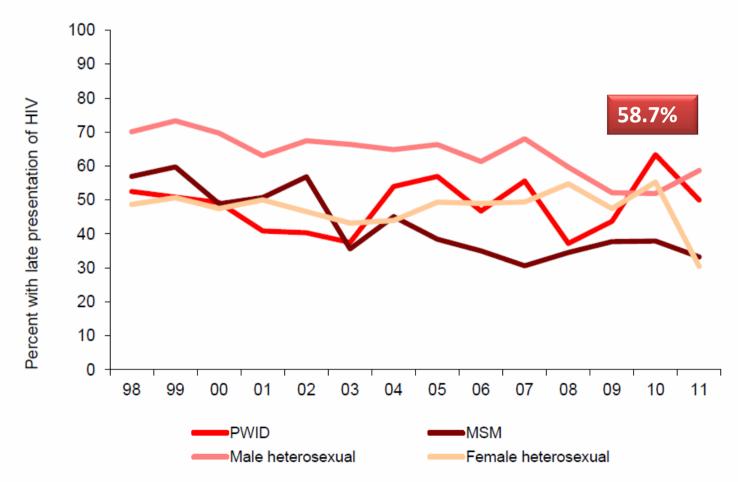


HIV and AIDS



Figure 24. Proportion of late presentation among new HIV diagnoses, by transmission group.

PISCIS Cohort, 1998-2011







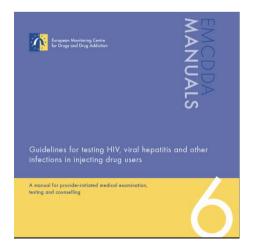
Introduction



 Early diagnosis improves treatment prognosis and allows interventions for behavior change.

Recommendation by ECDC and EMCDDA (2011):
 Tests should be offered up to once or twice yearly.









Objectives



 To describe the proportion of persons who inject drugs (PWID) who are not aware of their HIV and Hepatitis C (HCV) infection

 To assess factors associated with undiagnosed HIV/HCV infections among them.





Methods (I)



- Bio-behavioural surveys among PWID as part of the Integrated HIV/STI Surveillance System in Catalonia (SIVES)
- Cross-sectional study in 2012-2013
- Recruitment in harm reduction centers
- Inclusion criteria:
 - Injected drugs in the last 6 months
 - Older than 18 years old
 - Informed consent





Methods (II)



- Anonymous questionnaires
- Oral fluid samples (HIV/HCV prevalence)
- Those that report "unknown" or "negative" status but test positive on the oral fluid test represent the HIV and HCV undiagnosed groups.
- Poisson regression models were applied to assess factors associated with undiagnosed HIV/HCV infection.





Results



Socio-demographic and drug consumption characteristics (n=734)

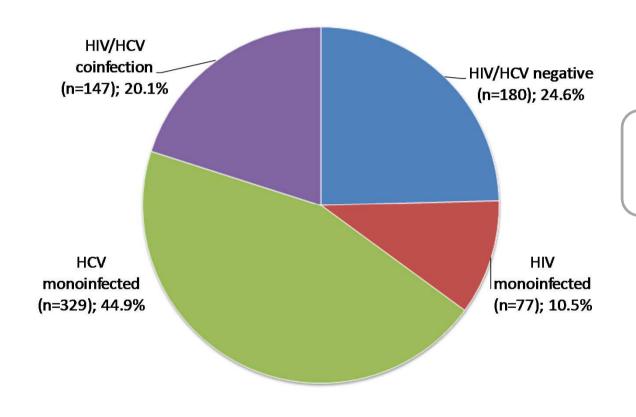
	%
Age (mean, SD)	38.0 (8.1)
Male	82.6
Educational level: Primary or lower	60.6
Living on the street (last 6 months)	20.3
In prison (at some time)	68.0
In treatment (at some time)	86.6
Years of injection (mean, SD)	15.8 (9.9)
New injectors (less than 5 years)	19.7
Daily injection (last 6 months)	44.7







HIV and HCV infection (oral fluid samples)



HIV prevalence: 30.6%

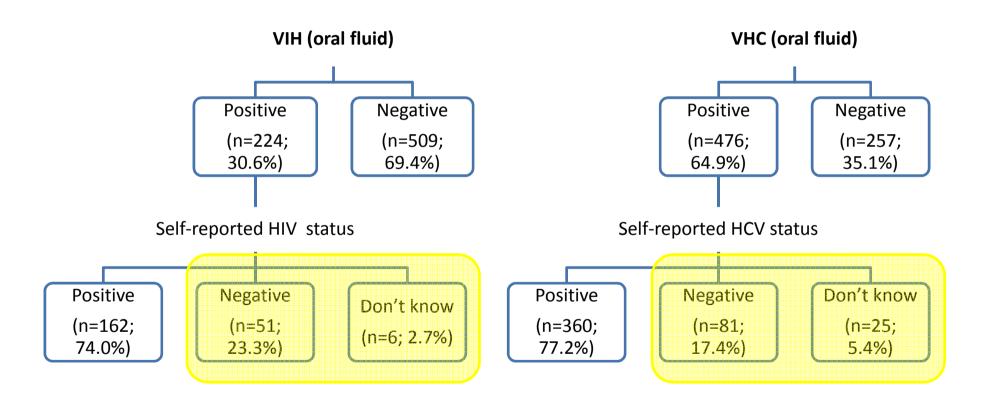
HCV prevalence: 64.9%







Classification of PWID according to knowledge of HIV and HCV status



26.0% Undiagnosed HIV

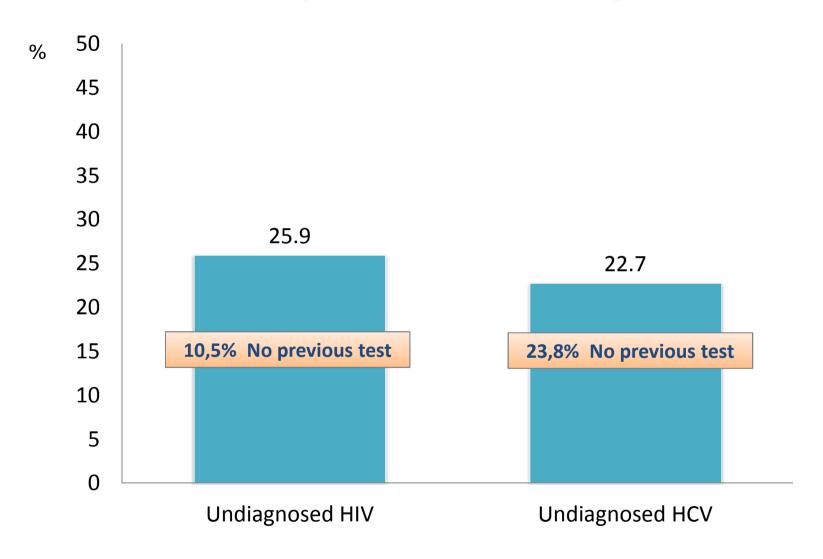
22.7% Undiagnosed HCV







Undiagnosed infections and testing



Socio-demographic variables and undiagnosed HIV/HCV infection



	HIV in		
	Diagnosed %	Undiagnosed %	
Age: Less than 30	3.7	22.8	< 0.05
Male	81.9	93.0	< 0.05
Migrant	21.5	49.1	< 0.05
New injectors (<5 years)	9.3	14.0	ns
In prison (at some time)	88.9	66.7	< 0.05
In treatment (at some time)	97.5	80.7	< 0.05

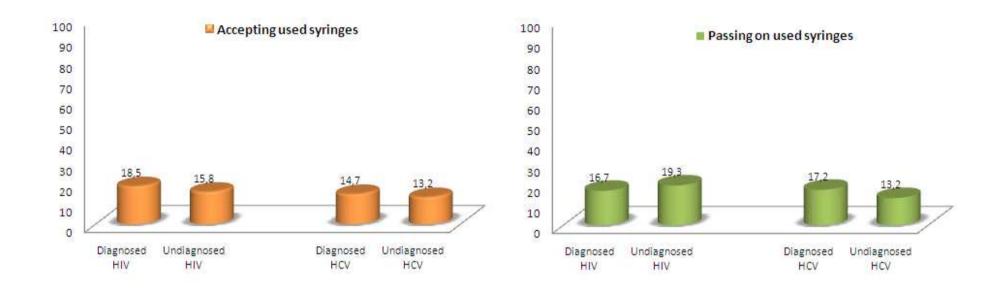
'	HCV ir		
	Diagnosed	Undiagnosed	р
	%	%	
Age: Less than 30	11.9	28.3	<0.05
Male	84.7	84.8	ns
Migrant	34.6	62.3	< 0.05
New injectors (<5 years)	11.4	28.3	< 0.05
In prison (at some time)	72.9	63.2	< 0.05
In treatment (at some time)	91.7	74.5	<0.05

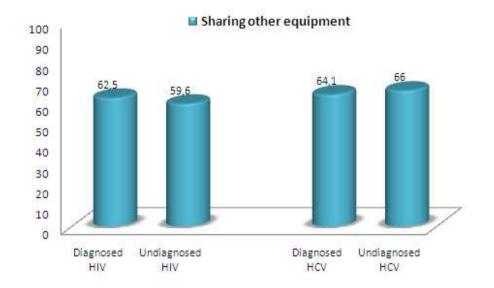




Injection risk behaviors and undiagnosed HIV/HCV infection





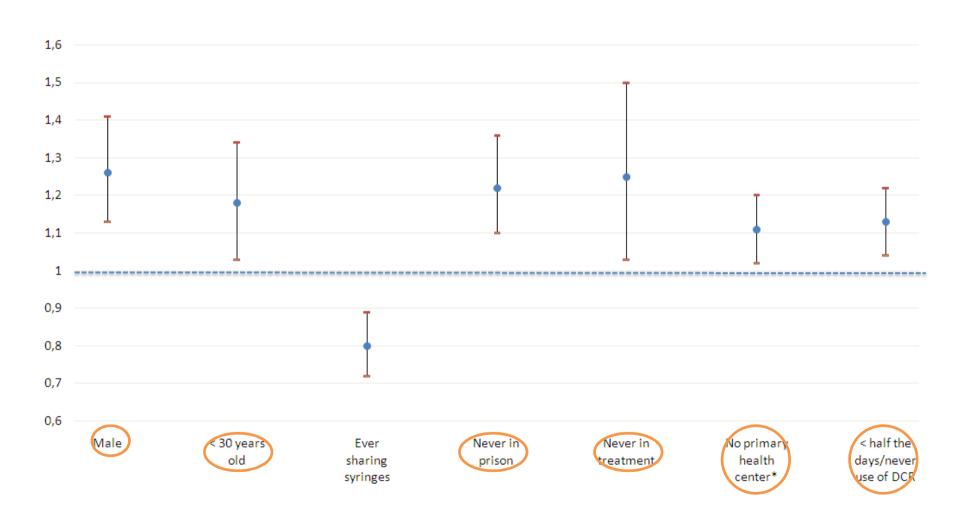








Factors associated with <u>undiagnosed HIV infection</u> (multivariate analysis)

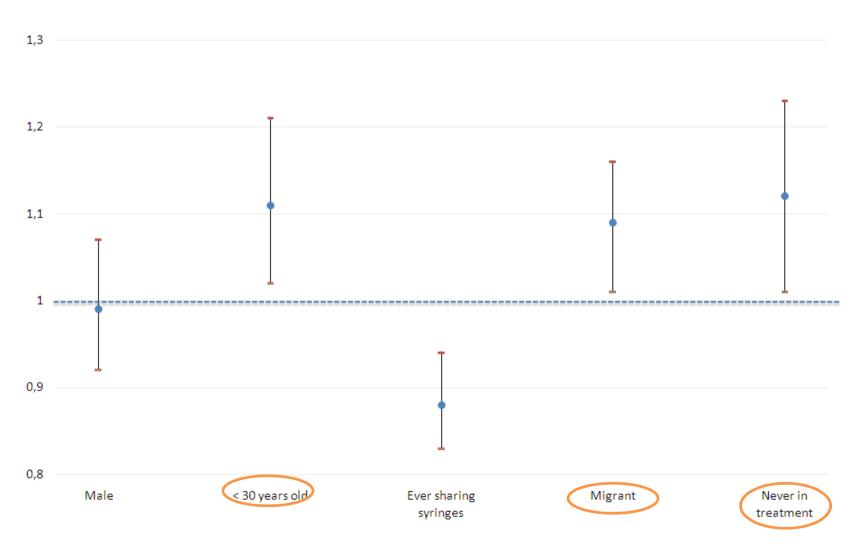








Factors associated with <u>undiagnosed HCV infection</u> (multivariate analysis)







Limitations



- Findings may not be generalizable to PWID in other settings.
- Information bias: underestimation of selfreported behaviours
- Cross-sectional study: limits to infer causality.





Conclusions



- A significant proportion of PWID in Catalonia who attended HRC are unaware of their HIV and/or HCV infection.
- Risky injection practices persist among PWID aware of their HIV and/or HCV infection.
- Counseling and testing programs are specially needed for young injectors and migrants.
- Rapid HIV and HCV tests can play an important role in order to increase the rate of early diagnosis, especially in populations who do not seek conventional medical care.





Acknowledgements



The authors thank all interviewers, participants and the centres who have collaborated in this study:

Àmbit Prevenció; SAPS, Baluard, CAS Lluis Companys; "El Local" Sant Adrià; AEC-Gris Hospitalet; Asaupa'm Badalona; Asaupa'm Santa Coloma; CAS Reus, AIDE Terrassa, Alba Terrassa, Arrels Lleida; CAS Reus; Bus Creu Roja Constantí, IAS Girona, CADO Vic.

Members of the REDAN Group: Jordi Casabona, Cinta Folch, Anna Esteve, Alexandra Montoliu, Rafa Muñoz (CEEISCAT); Victoria Gonzalez, Vicenç Ausina (Servei Microbiologia HUGTiP); M. Teresa Brugal, Albert Espelt, Carmen Vecino (Agència de Salut Pública de Barcelona); Xavier Majó, Joan Colom (Subdirecció General de Drogodependències); Mercè Meroño, Anna Altabas (Àmbit Prevenció).

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