# Are there national strategies, plans and guideliness for the treatment of hepatitis C in PWID? A survey of 33 European countries



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### **Disclosure**

#### Within the last 36 months:

- Lecturer: Abbvie, Bayer, Boehringer-Ingelheim, Janssen, Merck, Roche
- Manuscript preparation: Abbvie, Gilead, Janssen, Merck, Roche
- Travel/accommodational meeting expences: Abbvie, Gilead, Janssen, Merck, Roche

No conflict of interest regarding this presentation

### **Efficacy of HCV TREATMENT in PWID**

#### **Individual:**

- cure
- prevention of life-threatening complications (cirrhosis, liver cancer)
- improved quality of life
- is cost-effective

### Prevention of HCV-related morbidity and mortality

### **Epidemiological** (modeling study):

- even modest rates of HCV treatment may effectively lower HCV prevalence (even with re-infection / treatment failure)
- combination of HCV treatment with needle/syringe programs and OST is critical

#### **Prevention of HCV transmission**

### Reluctance to treat HCV infection in PWID

- Past two decades: HCV treatment for PWID controversial
- Low treatment uptake in developed countries:

3-4% of current or former PWID treated for HCV

Barriers: patient

practitioner

system: NO national strategy / action plan / clinical guidelines

#### Concerns about:

- Severe adverse events
- Non-efficacy
- Premature treatment completion
- Poor adherence to treatment
- Influence on increased drug use
- Reinfection

### **HCV** treatment in PWID WORKS!

 In former and current PWID, PEG/RBV treatment is comparable to general population:

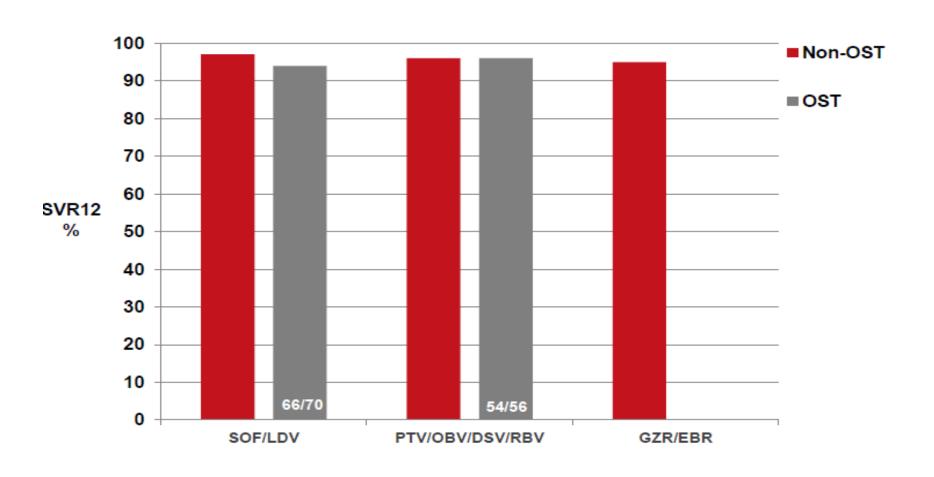
safe effective (54-56%)

- Treatment uptake effective and cost-effective also in low treshold settings
- A history of IDU does not compromise : adherence treatment completion
- No influence of HCV treatment on: increase in drug use treatment of drug use
- After successful treatment reifections are rare:

1-5% per year; 13.2% in 5 years

### **IFN-free DAA treatment in PWID**

G1, th naive, F0-4; 12 wks

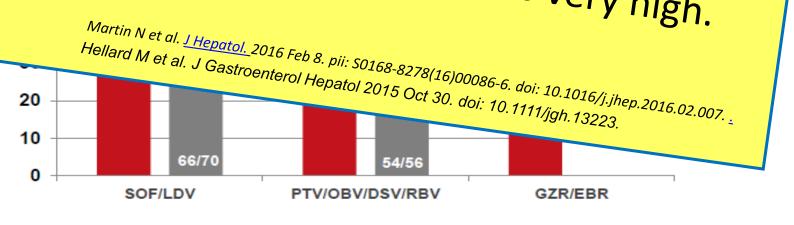


Afdhal N et al, NEJM 2014; Feld J et al, NEJM 2014; Lelazari J et al, IAC 2015. Zeuzem S et al, ILC 2015; Jacobson I et a, AASLD 2014.

## **IFN-free DAA treatment in PWID**

G1, th naive, F0-4; 12 wks

Treating PWID with moderate or mild HCV with IFN-free DAAs is cost-effective compared to delay until cirrhosis, except when chronic HCV prevalence and reinfection risk is very high.

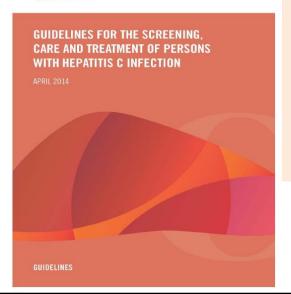


Afdhal N et al, NEJM 2014; Feld J et al, NEJM 2014; Lelazari J et al, IAC 2015. Zeuzem S et al, ILC 2015; Jacobson I et a, AASLD 2014.

## International guidelines call for HCV treatment in PWID

- EMCDDA 2010
- EASL 2014
- WHO 2014







EASL Recommendations 2015. doi: http://dx.doi.org/10.1016/j.hep.2015.03.025

Wiessing L, Blystad S. Euro Surveill 2010, **15:**48. WHO 2014. <a href="http://apps.who.int/iris/bitstream/10665/111747">http://apps.who.int/iris/bitstream/10665/111747</a> EASL. J Hepatol 2014; 60: 392-420.

## European Association for the Study of the Liver, 2015 Recommendations on treatment of hepatitis C

Treatment priority	Patient group
Treatment is indicated	<ul> <li>All treatment-naïve and treatment-experienced patients with compensated and decompensated liver disease</li> </ul>
Treatment should be prioritized	<ul> <li>Patients with significant fibrosis (F3) or cirrhosis (F4), including decompensated cirrhosis</li> <li>Patients with HIV coinfection</li> <li>Patients with BV coinfection</li> <li>Patients with an indication for liver transplantation</li> <li>Patients with HCV recurrence after liver transplantation</li> <li>Patients with clinically significant extra-hepatic manifestations</li> <li>Patients with debilitating fatigue</li> <li>Individuals at risk of transmitting HCV (active injection drug users, men who have sex with men with high-risk sexual practices, women of child-bearing age who wish to get pregnant, haemodialysis patients, incarcerated individuals)</li> </ul>
Treatment is justified	Patients with moderate fibrosis (F2)
Treatment can be deferred	<ul> <li>Patients with no or mild disease (F0-F1) and none of the above-mentioned extra- hepatic manifestations</li> </ul>
Treatment is not recommended	Patients with limited life expectancy due to non-liver related comorbidities

## 2015 INHSU recommendations for the management of HCV in PWID

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Editors' Choice

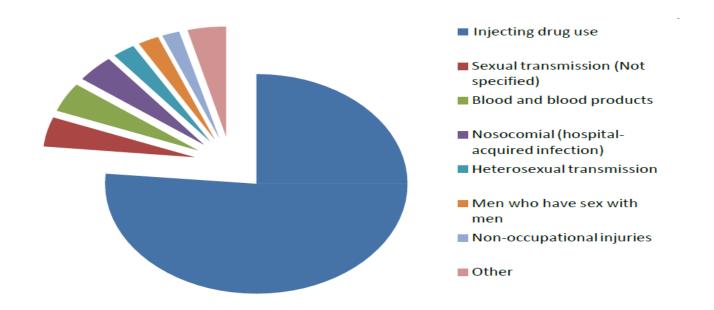
Recommendations for the management of hepatitis C virus infection among people who inject drugs



Jason Grebely <sup>a,\*</sup>, Geert Robaeys <sup>b,c,d</sup>, Philip Bruggmann <sup>e</sup>, Alessio Aghemo <sup>f</sup>, Markus Backmund <sup>g,h</sup>, Julie Bruneau <sup>i</sup>, Jude Byrne <sup>j</sup>, Olav Dalgard <sup>k</sup>, Jordan J. Feld <sup>l</sup>, Margaret Hellard <sup>m,n</sup>, Matthew Hickman <sup>o</sup>, Achim Kautz <sup>p</sup>, Alain Litwin <sup>q</sup>, Andrew R. Lloyd <sup>r</sup>, Stefan Mauss <sup>s</sup>, Maria Prins <sup>t,u</sup>, Tracy Swan <sup>v</sup>, Martin Schaefer <sup>w,x</sup>, Lynn E. Taylor <sup>y</sup>, Gregory J. Dore <sup>a</sup> on behalf of the International Network for Hepatitis in Substance Users

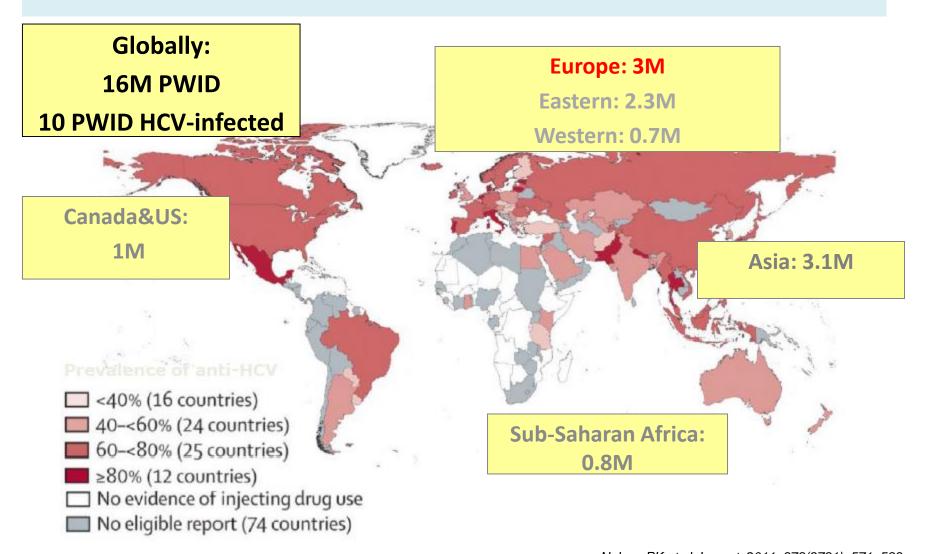
## Current treansmission route of HCV cases in EU/EEA countries, 2012

Last decade: new infections not common in general population
 major problem people who inject drugs (PWID)

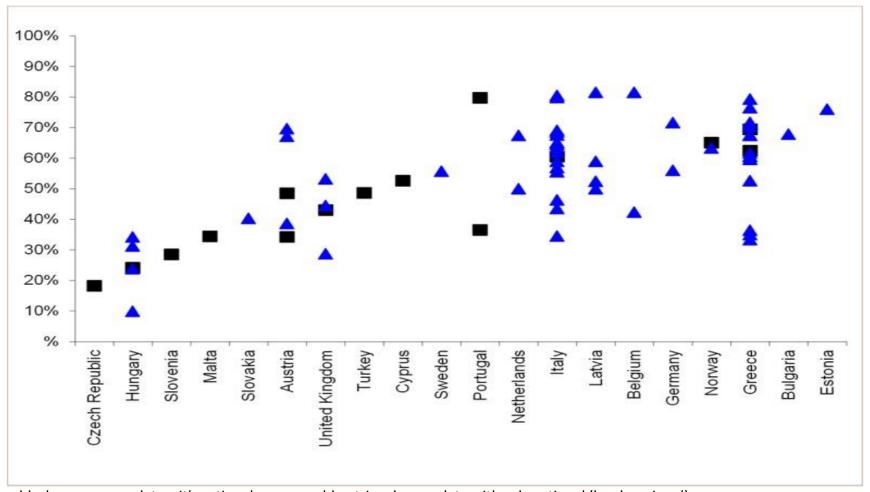


Route of transmission: injecting drug use 78.1%

## Global burden of hepatitis C in PWID

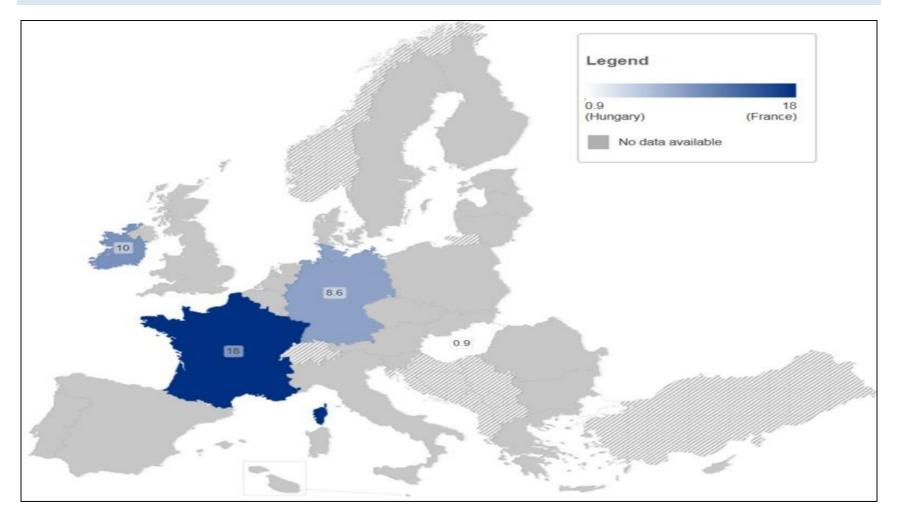


## HCV seroprevalence among PWID in the EU 2006–2011



black squares are data with national coverage, blue triangles are data with sub-national (local, regional) coverage.

# Proportion (%) of HCV-infected PWID in Europe entering antiviral treatment in observational studies in non-clinical settings



### **HCV** treatment of PWID

### Needed:

- National strategy
- National action plan
- National clinical guidelines

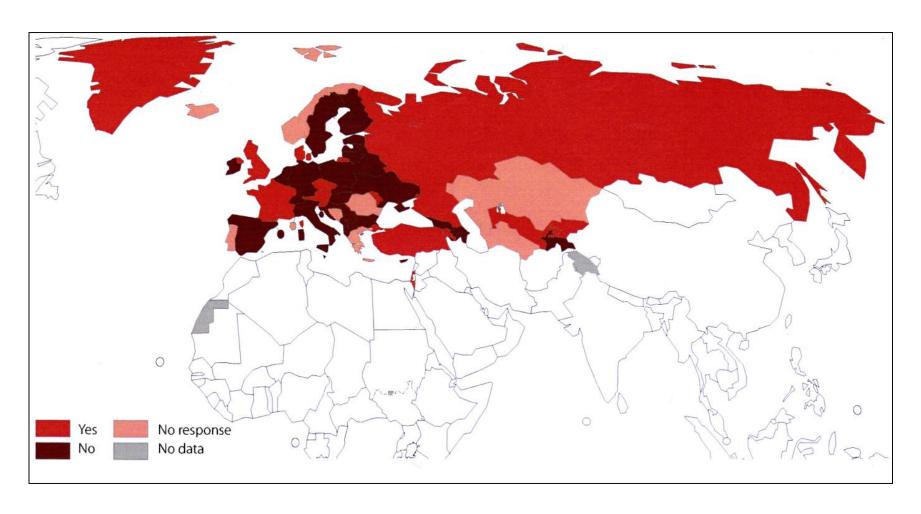
## WHO 2013 Global policy report on the prevention and control of viral hepatitis

 Objective: To obtain data on the existance of the national strategies to control viral hepatitis and guidelines in general

 Data collection: governmental institutions of the European member states

Period: July 2012 - February 2013

# WHO 2013 : No <u>national strategy</u> on the control of viral hepatitis in the majority of European countries



## A survey of 33 European countries

 Objective: To collect data on the existence of the national strategy, action plan, clinical guidelines on HCV treatment in general population and PWID

• Data collection: non-governmental institutions

• Period: September-December 2013

## A survey of 33 European countries

#### **METHODS**

Prospective study

- Informants: from a database of contacts from "HCV Initiative of the Correlation Network"
- Data collection: a structured electronic questionnaire sent via e-mail to individuals in 33 European countries

#### National level activities on HCV treatment in PWID

## A questionnaire

<ul> <li>Does your country have a national strategy for treatment of HCV?</li> <li>Yes</li> <li>No</li> </ul>	
2. If yes, does it include action with regards to PWID?  Yes  No	
3. Does your country have a national action plan of HCV (in place of or in addition to a strategy)? ☐ Yes ☐ No	
4. If yes, does it include actions in regard of PWID?  ☐ Yes ☐ No	
5. Does your country have national guidelines for treatment of HCV?  Yes  No	
<ul> <li>6. If yes, does this include guidelines in regard of PWID or are these separate guidelines in regard of PWID? <ul> <li>Guidelines in regard of PWID are included</li> <li>Yes</li> <li>No</li> <li>Separate guidelines in regard of PWID</li> <li>Yes</li> <li>No</li> </ul> </li> <li>No</li> <li>No</li> <li>No</li> </ul>	
<ul> <li>7. In case there are separate guidelines in regard of PWID, are they applicable to:     PWID on opiate substitution treatment</li> <li>Yes</li> <li>No</li> <li>Active PWID</li> <li>Yes</li> <li>No</li> <li>No</li> </ul>	

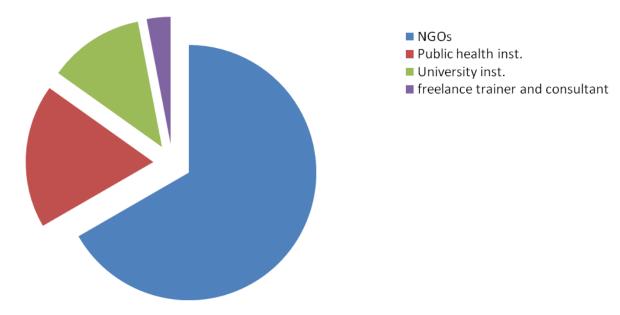
## A questionnaire

1. -	Does your country have a national strategy for treatment of HCV? Yes No
2.1	Definition
	months of PWID: 20t:
	non-injector former in is delive (drugs in n
5.1	Yes No No Past 6
6.1	Months) and former injectors (including active of or in addition to a strategy)?  Months) and former injectors (in past 6 of pwind of pwin
	Yes No
7.1	n case there are separate guidelines in regard of PWID, are they applicable to:  PWID on opiate substitution treatment  Yes  No  Active PWID  Yes
	No

National level activities on HCV treatment in PWID

## A survey of 33 European countries

#### **Affiliation of respondents**



NGOs: 22 (67%)

Public health institutions: 6 (18%)

University institutions: 4 (12%)

Freelance trainer and consultant: 1 (3%)

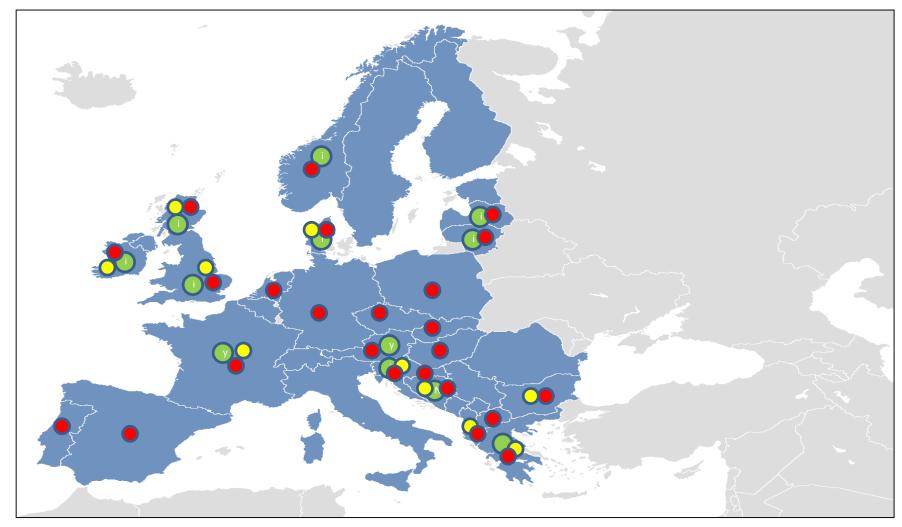
#### National level activities on HCV management

## A survey of 33 European countries

National strategy, 12 (10 PWID)

National action plan, 10 (7 PWID)

National treatment guidelines, 24 (20 PWID)



\*Scotland was treated separately from UK

#### National level activities on HCV treatment in PWID

## A survey of 33 European countries

National strategy for HCV treatment: 12/33 (36%) countries, PWID included in 11/12 countries:

Austria, BiH, Dennmark, France, Greece, Ireland, Lithuania, Norway, Slovenia, Scotland, UK, Latvia (PWID not included)

National action plan for HCV treatment: 10/33 (30%) countries, PWID included in 7/10 countries:

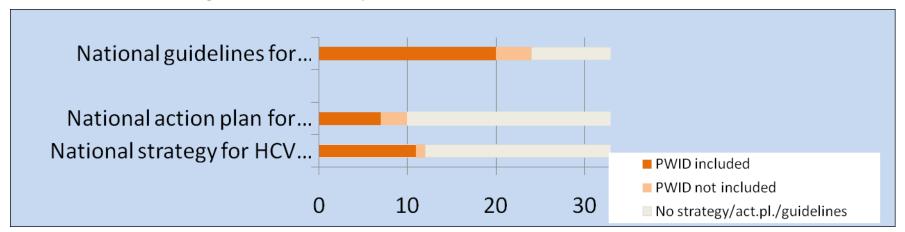
BiH, Dennmark, France, Greece, Slovenia, Scotland, UK, Albania, Bulgaria, Ireland (PWID not included)

- \* Croatia and Finland: action plan in developement
- \*\*Italy: awaiting for govermental approval

#### National guidelines for HCV treatment: 24/33 (73%), PWID included in 20/24 countries:

Albania, BiH, Croatia, Dennmark, France, Germany, Greece, Hungary, Latvia, Lithuania, Macedonia, Norway, Poland, Portugal, Slovakia, Slovenia, Scotland, Spain, Netherlands, UK (PWID not included)

- \*Italy: guidelines prepared, to be approved by the government
- \*\*Romunia: non-governmental document in use
- \*\*\*Finland and Switzerland: guidelines under developement



#### National level activities on HCV treatment in PWID

## A survey of 33 European countries

National strategy for HCV treatment: 12/33 (36%)

PWID included: 11/12 (92%)

National action plan for HCV treatment: 10/33 (30%)

PWID included: 7/10 (70%)

National guidelines for HCV treatment: 24/33 (73%)

PWID included: 20/24 (83%)

Separate guidelines for HCV treatment in **PWID on OST**: 15/33 (45%)

Separate guidelines for HCV treatment in active drug users: 9/33 (27%)

## National level activities on HCV treatment in PWID A survey of 33 European countries

Compared to 2013 WHO global policy report

Country	Albania	Austria	Belgium	Bulgaria	Croatia	CZ	Deennmark	Estonia	Finland	France	Germany	Greece	Hungary	Ireland	Italy	Latvia	Lithuania	Macedonia	Montenegro	Norway	Poland	Portugal	Romania	Scotland	Serbia	Slovakia	Slovenia	Spain	Sweden	Switzerland	Netherlands	λ
Natinal clinical guidelines for HCV th	N	Υ	Υ	Y	Y	Υ	Υ	Υ	Υ	Υ	Υ	n i	Y	N	N	Υ	Υ	Υ	N	n i	Υ	n i	n i	n i	Y	Y	Υ	Υ	N	Υ	Y	N
National strategy for HCV th	n d	Υ	N	N	N	Υ	N	N	N	Υ	N	n i	N	N	N	N	N	N	N	n i	N	n i	n i	n i	N	N	Υ	N	N	N	N	Y
National clinical guidelines for HCV th	N	Υ	N	Y	Υ	Υ	Y	N	N	Υ	Υ	Υ	Y	Y	N	Υ	Y	Υ	N	Y	Υ	Y	N	Y	N	Y	Υ	Υ	N	N	Y	Y
National strategy for HCV th	N	Υ	N	N	N	N	Y	N	N	Υ	N	Y	N	Υ	N	Y	Υ	N	N	Υ	N	N	N	Y	N	N	Y	N	N	N	N	Y

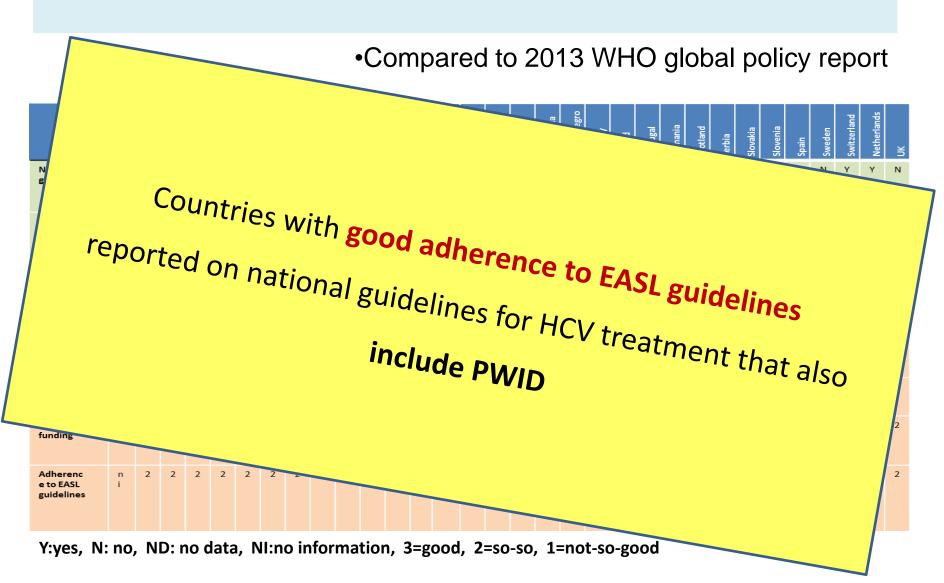
WHO report

33-countries survey

discrepancy

National level activities on HCV treatment in PWID

## A survey of 33 European countries

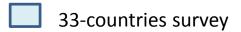


## WHO 2013 global policy report on viral hepatitis

Publicly funded treatment of HCV

Country	Albania	Austria	Belgium	Bulgaria	Croatia	CZ	Deennmark	Estonia	Finland	France	Germany	Greece	Hungary	Ireland	Italy	Latvia	Lithuania	Macedonia	Montenegro	Norway	Poland	Portugal	Romania	Scotland	Serbia	Slovakia	Slovenia	Spain	Sweden	Switzerland	Netherlands	Č Č
National clinical guidelines for HCV th	N	Υ	Υ	Υ	Υ	Y	Υ	Y	Y	Y	Y	n i	Υ	N	N	Y	Y	Υ	N	n i	Y	n i	n i	n i	Y	Υ	Υ	Υ	N	Y	Y	N
National strategy for HCV th	n d	Υ	N	N	N	Y	N	N	N	Y	N	n i	N	N	N	N	N	N	N	n i	N	n i	n i	n i	N	N	Y	N	N	N	N	Y
Availability of publicly founded treatment	n d	Y	Y	Υ	Y	Υ	Y	Y	Υ	Y	Y	n i	Y	Y	Υ	Y	Y	Υ	Υ	n i	Y	n i	n i	n i	Υ	n d	Y	Υ	Y	N	Y	Υ



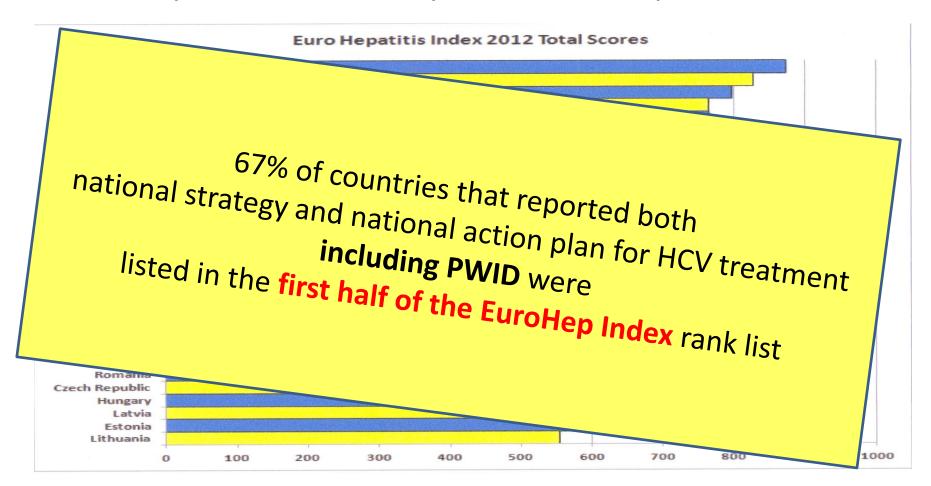


## WHO 2013 global policy report on viral hepatitis

- Publicly funded treatment of HCV finded treatment of HCV In all countries of the European WHO region, but Switzerland (data for Albania and Slovakia not available) active injection drug use is an absolute contraindication for publicly funded treatment in Finland Nationa clinical guidel only **75% of total treatment cost** is publicly funded in Latvia HCV<sub>t</sub> Natid HCV th Availability of publicly founded
  - WHO report 33-countries survey

## A survey of 33 European countries

Compared to Euro Hepatitis Index report, 2012



## **Conclusions**

- HCV treatment is safe and effective in population of PWID, with low risk of reinfection in former and current PWID
- International guidelines for the management of HCV in PWID exist and call for treatment
- National strategies, action plans and clinical guidelines on HCV treatment have not been introduced in all European countries; they are needed for general population as well as for PWID
- The introduction of new drugs for all in need are crucial for future management of HCV infection in PWID