

Príklady mikroelimináčnych programov pre HCV infekciu u PWID.



**11. AT konferencia
Bojnice 12. 10. 2019**

Eliška Lovrantová Oddelenie infektológie FNsP FDR B. Bystrica

Prezentácia vznikla za podpory

The logo for Abbvie, consisting of the word "abbvie" in a lowercase, sans-serif font, centered within a white square background.

abbvie

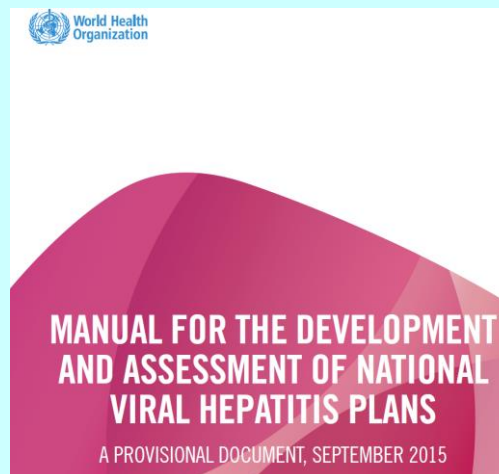
Úvod

Towards the Elimination of Hepatitis B and C by 2030

The draft WHO Global Hepatitis Strategy, 2016-2021
and global elimination targets



Dr Gottfried Hirnschall
HIV DEPARTMENT and
GLOBAL HEPATITIS PROGRAMME



Národný plán kontroly infekčných ochorení v Slovenskej republike Strategický plán na roky 2018 - 2020

Zlepšenie kontroly infekčných
ochorení pre všetkých obyvateľov
Slovenskej republiky



**STRETNUTIE CENTIER PRE LIEČBU
CHRONICKÝCH HEPATITÍD 2019**
4. – 5. október 2019 | Bratislava, Double Tree by Hilton

Advisory Board – 22.5.2019

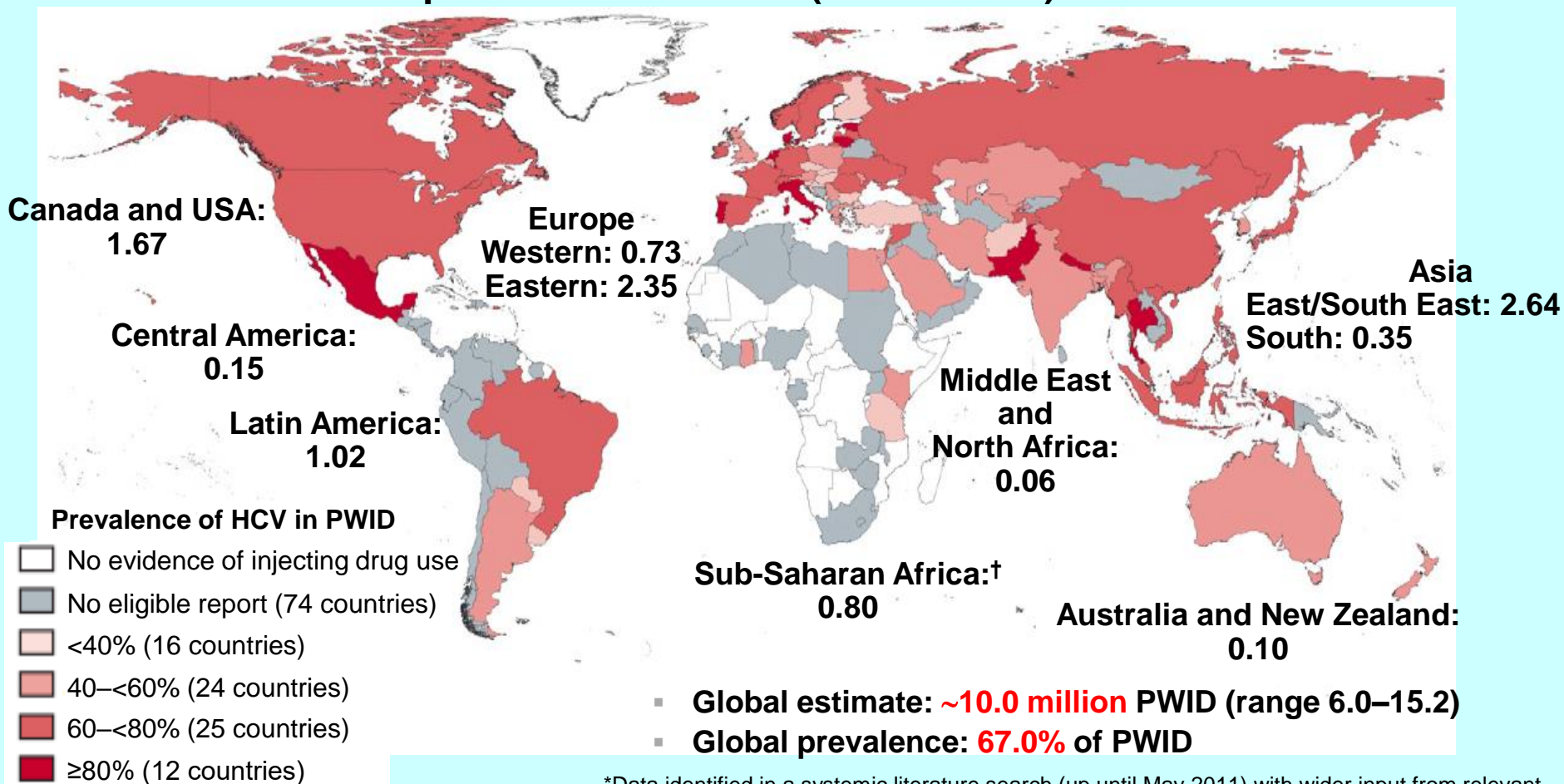
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Hepatitída C a PWID

Globálna prevalencia HCV infekcie u PWID

Predpoklad HCV u PWID (v miliónoch)*

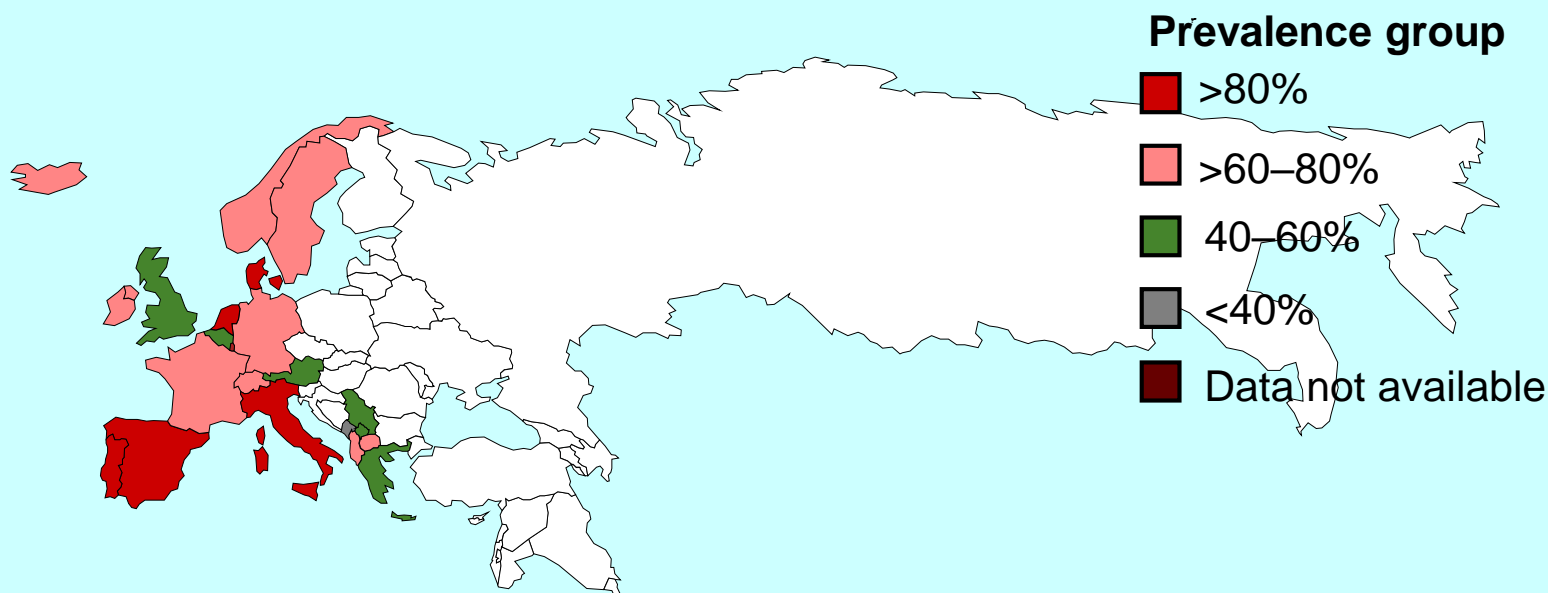


*Data identified in a systemic literature search (up until May 2011) with wider input from relevant organisations; Regional data are PWID positive for HCV antibodies (mid-point estimates);

†Prevalence derived from South Africa, Mauritius and Kenya only.
PWID: people who inject drugs

II. Prevalencia HCV infekcie u PWID

HCV prevalence in PWID in Western European countries (until 2011)*



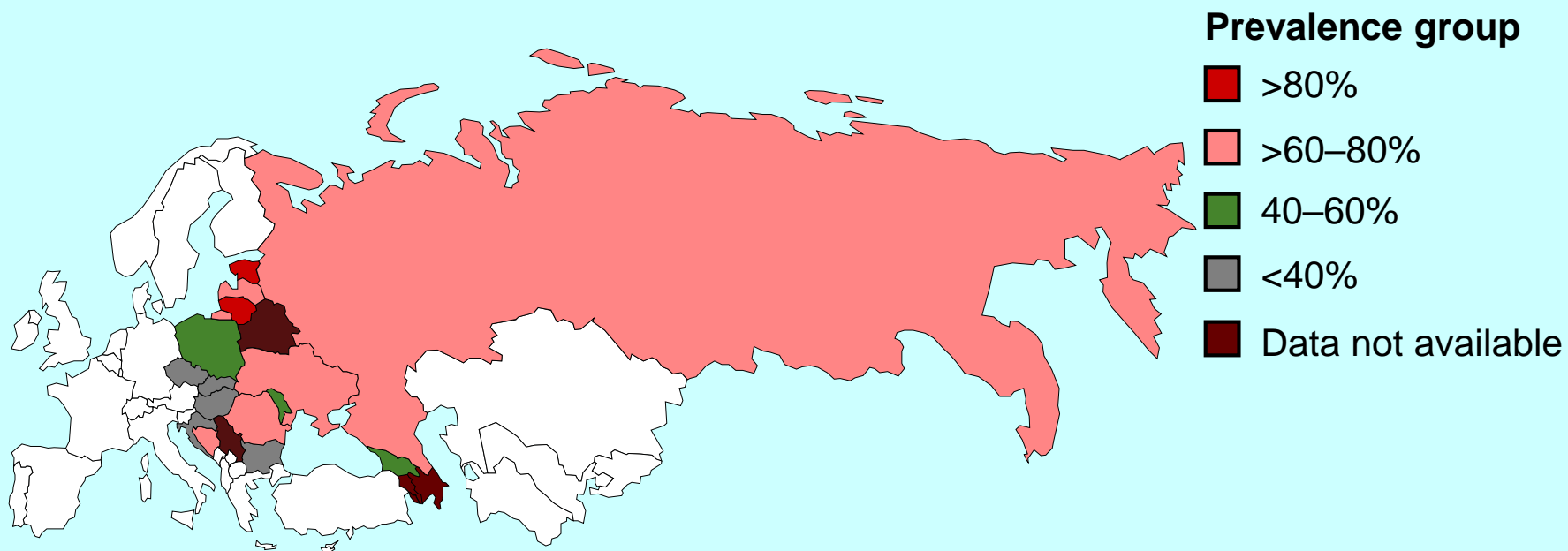
13 Western European countries reported HCV antibodies in >60% among PWID

*Data identified in a systemic literature search (up until May 2011) with wider input from relevant organisations.

PWID: people who inject drugs

III. Prevalencia HCV infekcie u PWID

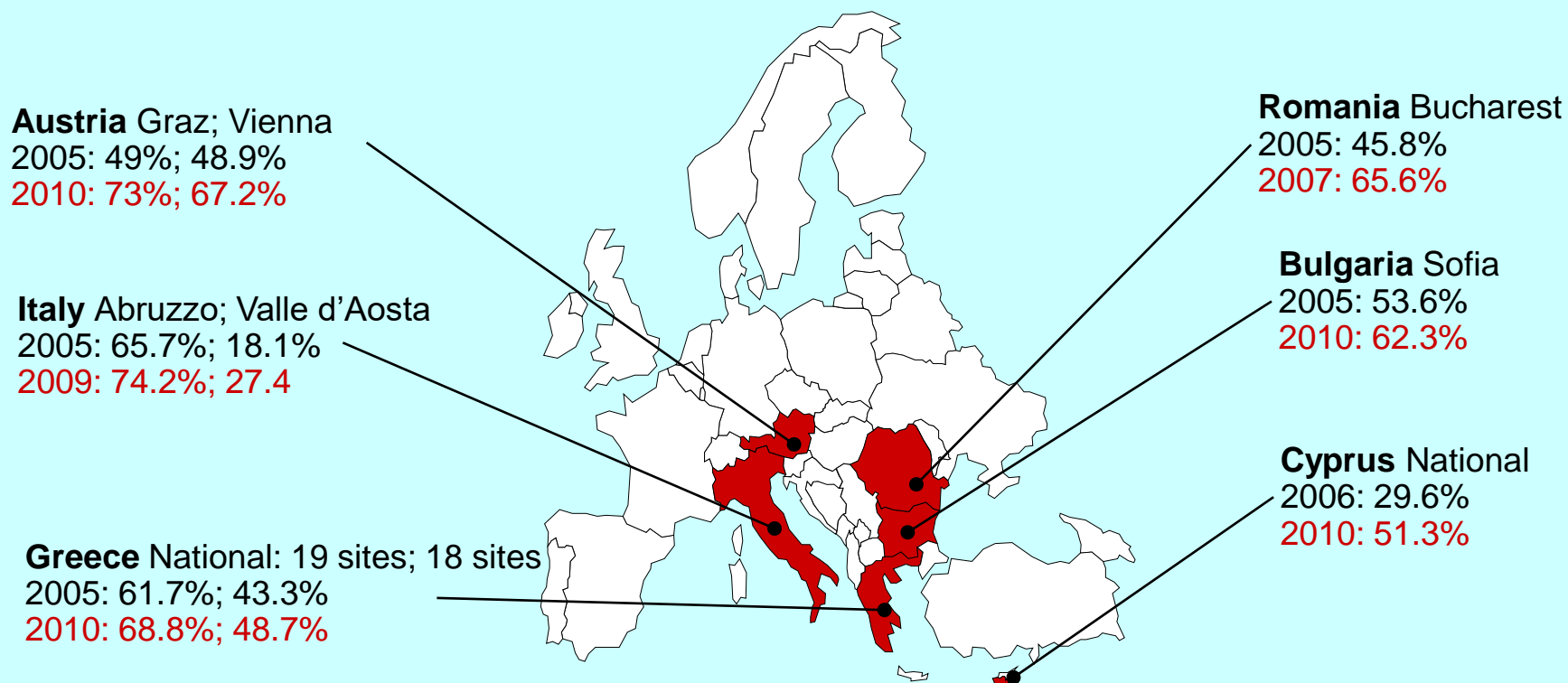
HCV prevalence in PWID in Eastern European countries (until 2011)*



6 Eastern European countries reported HCV antibodies in $\geq 60\%$ among PWID

Prevalencia u PWID v Europe v období 2005–2010 stúpla

HCV prevalence in PWID in Europe from 2005–2010

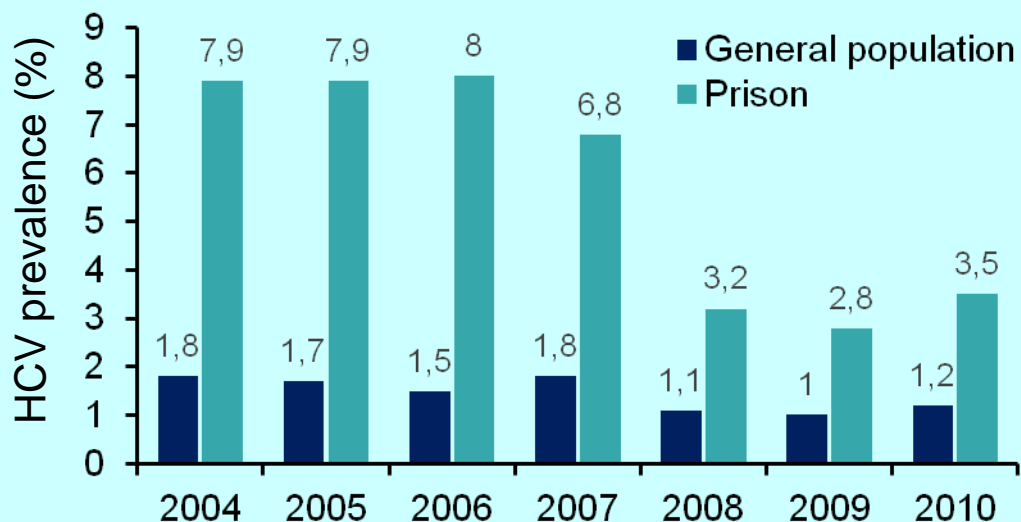


Increased prevalence of HCV infection* in PWID in 6 European countries†

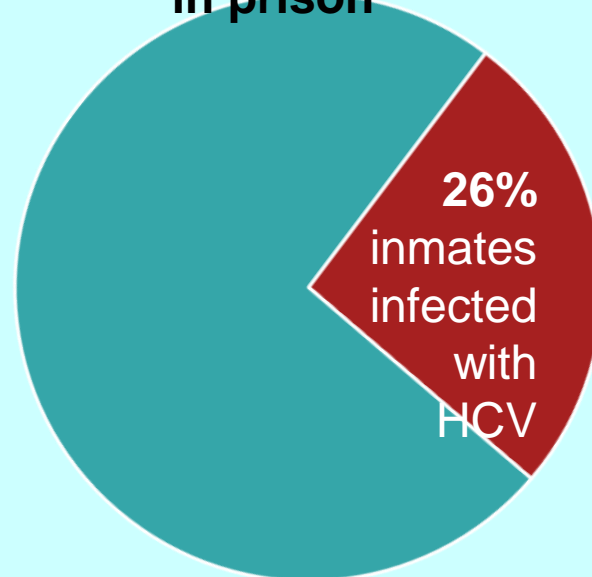
Ktoré faktory potencujú incidenciu a prevalenciu HCV infekcie

Uväznenie je nezávislým rizikovým faktorom pre HCV infekciu u PWID

HCV prevalence in the general population (n=46,125) and the prison population (n=5957)*1



Global HCV prevalence in prison²

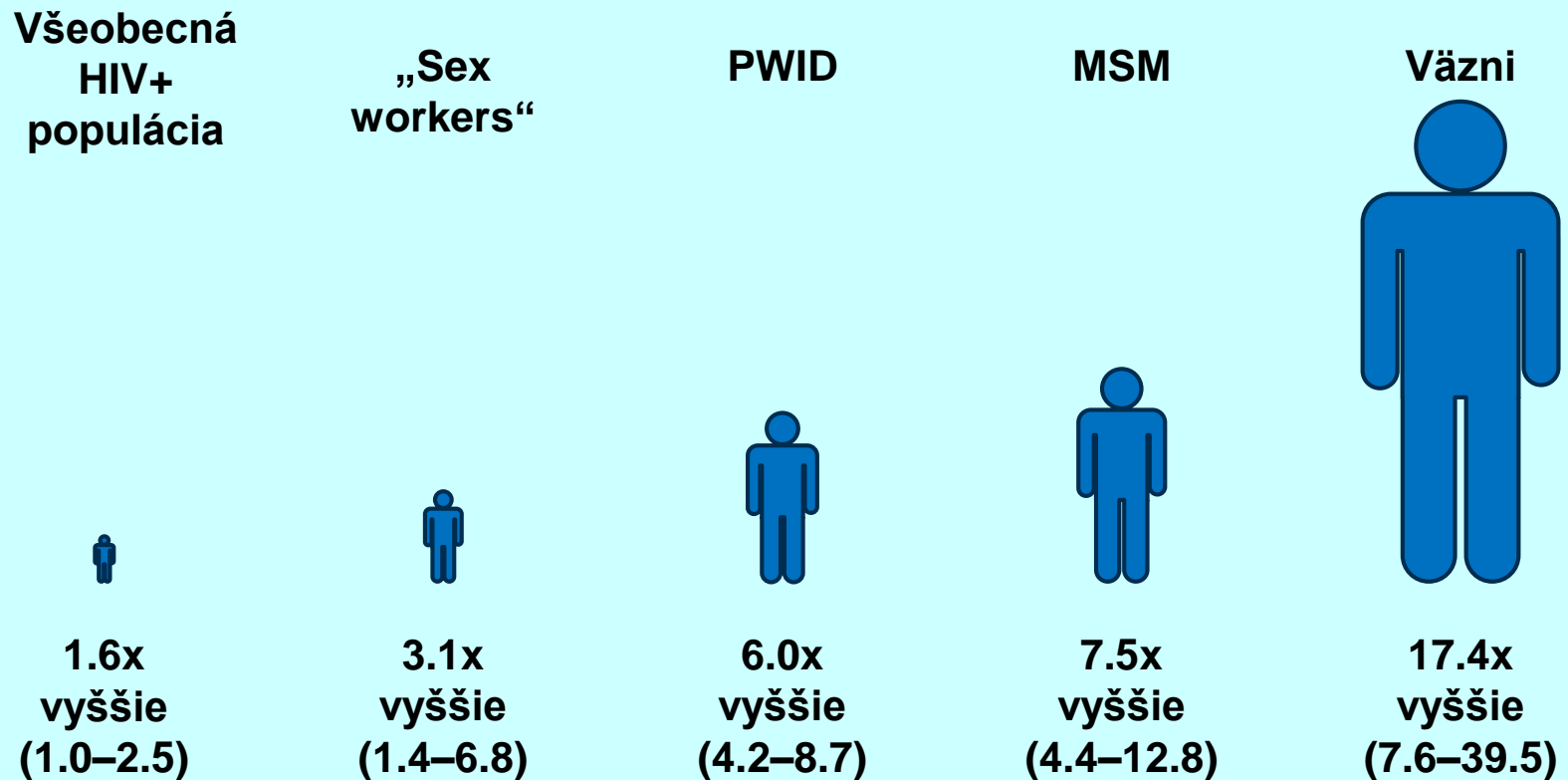


- HCV prevalence is much higher in prisons than in the general population
- Anti-HCV prevalence in inmates ~26%
- Many inmates are unaware of their HCV status

1. Roux P, et al. *BMJ Open* 2014;19:e005694;
2. Larney S, et al. *Hepatology* 2013;58:1215–24

*In South-Eastern France.
PWID: people who inject drugs

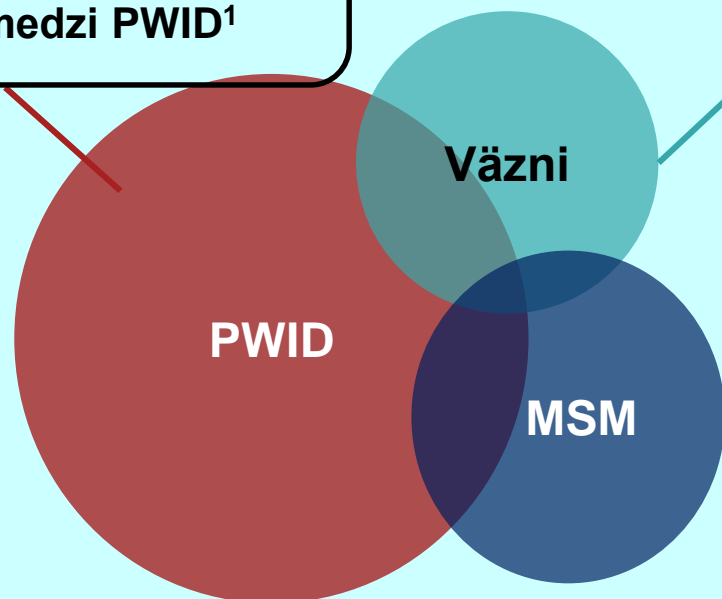
Riziko HCV infekcie u HIV+ a HIV- osôb je odlišné v rizikových populáciách



PWID, MSM a internované osoby (väzni) sú v najvyššom stupni rizika HCV infekcie

V ekonomicky vyspelých krajinách **80%** nových HCV infekcií je medzi PWID¹

Globálne **26%** väzňov je infikovaných HCV².



Vzostup incidencie HCV u osôb HIV+ MSM:
7.3% v r. 2004
9.9% v r. 2011³

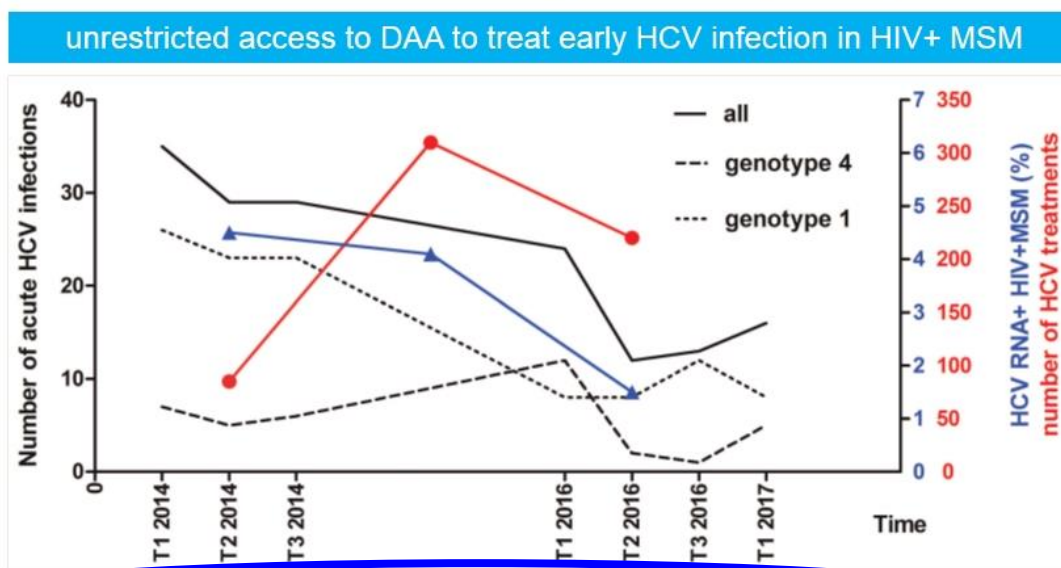
1. Grebely J, Dore GJ. *Antiviral Res* 2014;104:62–72;
2. Larney S, et al. *Hepatology* 2013;58:1215–24;
3. Martin N, et al. *Clin Infect Dis* 2016;62:1072–80

IDU: injecting drug use;
MSM: men with have sex with men;
PWID: people who inject drugs

Liečba ako prevencia HCV infekcie

Liečba ako prevencia: pokles *incidencie*

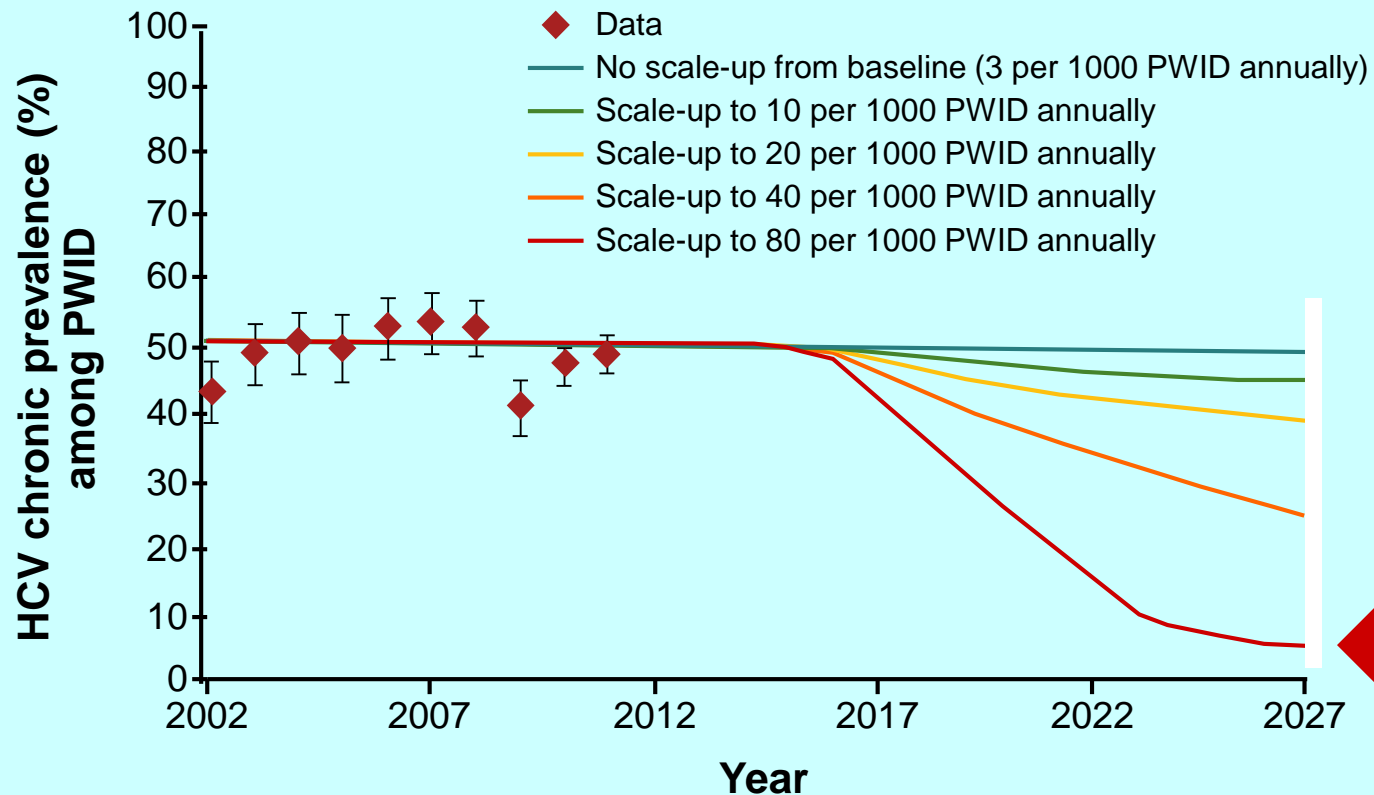
„*Treatment as prevention*“ works and can reduce new infections in high risk groups



→ Reduction of new acute HCV infections by 51% in HIV+ MSM

Liečba ako prevencia: pokles *prevalencie*

TAP Study: Treatment As Prevention HepC study



Liečba hepatitídy typu C je bezinterferónová

EASL Recommendations on the Treatment of Hepatitis C 2018

Genotype	Pangenotypic Regimens			Genotype-Specific Regimens		
	SOF/ VEL	GLE/PIB	SOF/ VEL/VOX	SOF/LDV	GZR/EBR	3D
Genotype 1a	Yes	Yes	No*	Yes ^a	Yes ^b	No
Genotype 1b	Yes	Yes	No*	Yes	Yes	Yes
Genotype 2	Yes	Yes	No*	No	No	No
Genotype 3	Yes ^c	Yes	Yes ^d	No	No	No
Genotype 4	Yes	Yes	No*	Yes ^a	Yes ^e	No
Genotype 5	Yes	Yes	No*	Yes ^a	No	No
Genotype 6	Yes	Yes	No*	Yes ^a	No	No

*Triple combination therapy efficacious but not useful due to the efficacy of double combination regimens.

^aTreatment-naïve patients without cirrhosis or with compensated (Child-Pugh A) cirrhosis.

^bTreatment-naïve and treatment-experienced patients without cirrhosis or with compensated (Child-Pugh A) cirrhosis with an HCV RNA level $\leq 800,000$ IU/mL (5.9 Log_{10} IU/mL).

^cTreatment-naïve and treatment-experienced patients without cirrhosis.

^dTreatment-naïve and treatment-experienced patients with compensated (Child-Pugh A) cirrhosis.

^eTreatment-naïve patients without cirrhosis or with compensated (Child-Pugh A) cirrhosis with an HCV RNA level $\leq 800,000$ IU/mL (5.9 Log_{10} IU/mL).

European Association for the Study of the Liver. *J Hepatol.* 2018;69:461-511.



PWID and patients receiving OST

Recommendations	Grade of evidence	Grade of recommendation
Test routinely and voluntarily for anti-HCV Abs and HCV RNA; test HCV RNA annually and following any high-risk injecting episode	A	1
Provide appropriate access to OST and clean drug injecting equipment as part of widespread comprehensive harm reduction programs, including in prisons	A	1
All HCV-infected PWIDs have an indication for antiviral therapy; DAA-based therapies are safe and effective in HCV-infected patients receiving OST, those with a history of IDU and those who recently injected drugs	A	1
HCV treatment should be offered to HCV-infected patients in prison	B	1
Pre-therapeutic education: include discussions of HCV transmission, risk factors for fibrosis progression, treatment, reinfection risk, and harm reduction strategies	B	1
In patients on OST, DAA-based anti-HCV therapy does not require methadone or buprenorphine dose adjustment	A	1
Provide harm reduction, education and counselling to prevent HCV reinfection following successful treatment	B	1
Monitor after SVR in PWID with an ongoing risk behaviour*	A	1
Retreat if reinfection identified during post-SVR follow-up	A	1

*Ideally bi-annual or at least annual HCV RNA assessment
EASL CPG HCV. J Hepatol 2018;69:461–511.

Potenciál pre liekové interakcie medzi OST a DAA

OST Legálna droga	Elbasvir/Grazoprevir	Glecaprevir/Pibrentasvir	OBV/PTV/r + DSV	Sofosbuvir/Velpatasvir	Sofosbuvir/Velpatasvir/ Voxilaprevir
Buprenorphine	◆	◆	■	▲	▲
Methadone	◆	◆	◆	◆	◆
Naloxone	◆	◆	◆	◆	◆

- Do Not Coadminister ■ Potential Interaction ▲ Potential Weak Interaction ◆ No Interaction Expected ⚡ No Clear Data
○ Do Not Coadminister □ Potential Interaction △ Potential Weak Interaction ◇ No Interaction Expected ⚡ No Clear Data

- ○ These drugs should not be coadministered
- □ Potential clinically significant interaction that is likely to require additional monitoring, alteration of drug dosage or timing of administration.
- ▲ △ Potential interaction likely to be of weak intensity. Additional action/monitoring or dosage adjustment is unlikely to be required
- ◆ ◇ No clinically significant interaction expected

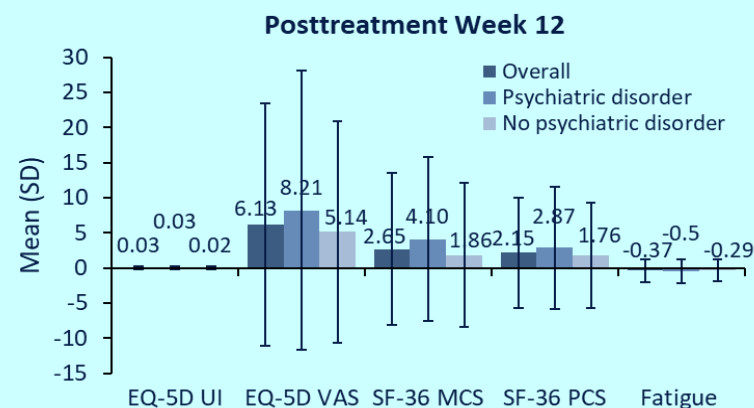
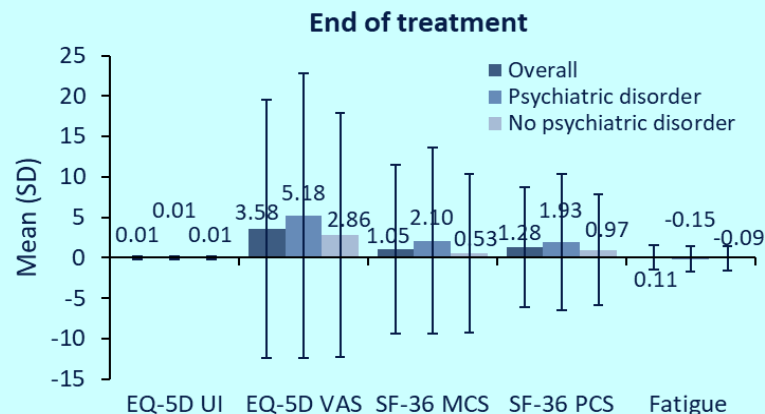
Kvalita života u pacientov s psychickými poruchami: súhrnná analýza z registračných štúdií GLE / PIB

6 registračných klinických štúdií G/P

2570 pacientov: 31% mali v minulosti psychiatrickú poruchu a/alebo užívali lieky na psychiatrickú diagnózu

- Bez ohľadu na psychiatrický stav, pacienti mali **zlepšenie kvality života** na konci liečby a v 12. týždni po liečbe
- Psychiatrické poruchy ukázali **najväčšie zlepšenie** v skóre mentálnych zložiek
- Pacienti s psychiatrickou poruchou majú takmer **dvojnásobný benefit z liečby**

- **Liečba by mohla mať väčší vplyv na tých pacientov s HCV infekciou, ktorí trpia psychickou poruchou**



-MCS, skóre mentálnych komponentov; PCS, skóre fyzických komponentov; UI, index utility.

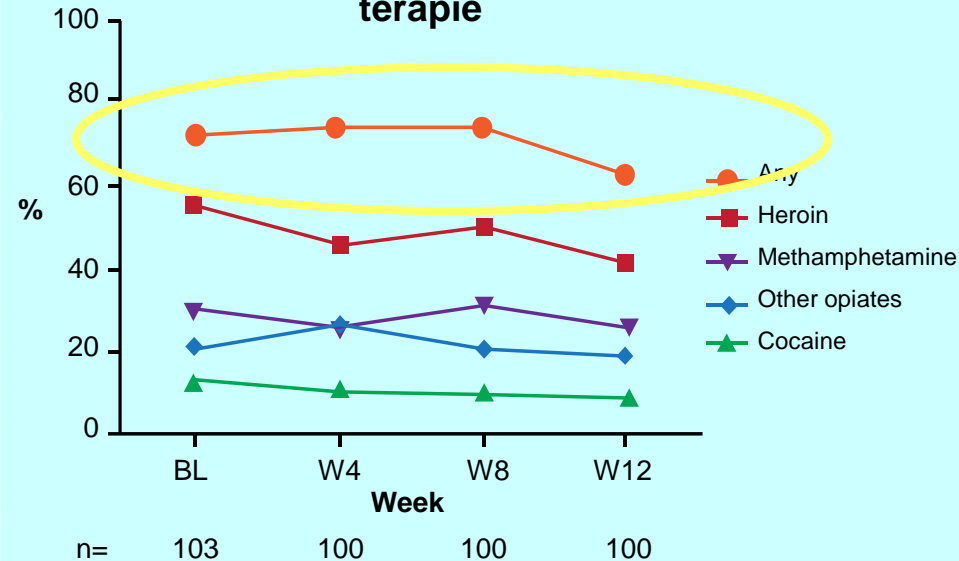
Väčšina pacientov pokračovala v užívaní drog počas HCV liečby (SIMPLIFY)

International, Phase 4, open-label study of 103 patients

Demografia

Age, years (range)	48 (41–53)
Male sex, n (%)	74 (72)
HCV genotype 1a / 1b / 2 / 3 / 4, %	34 / 1 / 5 / 58 / 2
Fibrosis stage (METAVIR) F0–F1 / F2–F3 / F4, %	61 / 28 / 9
Injecting drug use (in the last 30 days), n (%)	76 (74)
Heroin	57 (55)
Methamphetamines	31 (30)
Other opiates	22 (21)
Cocaine	13 (13)
≥Daily injecting drug use (in last month), n (%)	27 (26)
Current OST, n (%)	
Methadone	45 (44)
Buprenorphine	4 (4)
Buprenorphine ± naloxone	16 (16)

Užívanie drog počas terapie



Adherencia k HCV liečbe

- Median: 94%
- Mean: 89%

Mikroeliminačné programy sú súčasťou ***Národných stratégií* mnohých štátov**

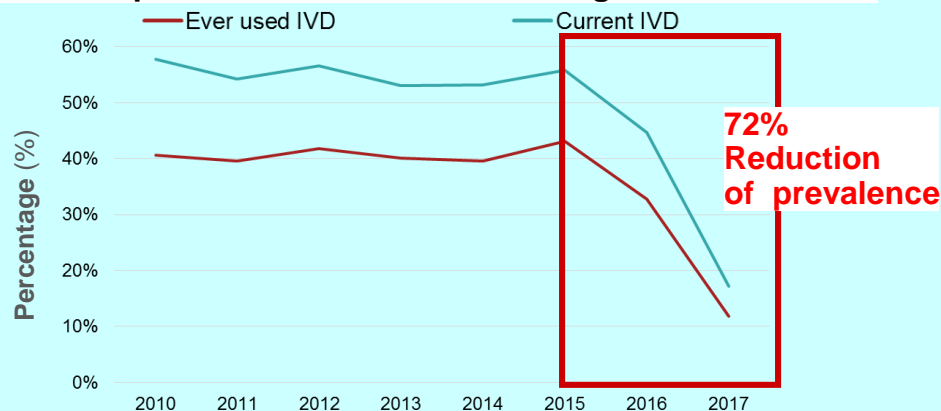
Island – Vogur Addiction Hospital - 2016/2017

Kombinácia liečby závislosti, VHC a „harm reduction“ vedie k eliminácii HCV u PWID

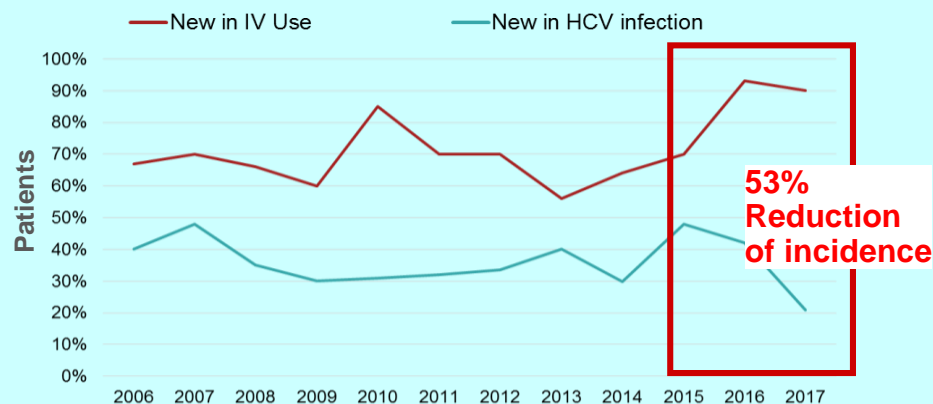
Iceland

- Population: 340,000
- Estimated HCV seroprevalence: 0.3%
- Treatment to all within 3 years
- Emphasis on those:
 - Actively injecting drugs
 - Incarcerated
 - With advanced liver fibrosis or cirrhosis
- 3rd year for “search and rescue”

Proportion of viraemic HCV among PWID



New injection drug users and new HCV infections,



Demographics	N=518
Living situation, %	
Home	75
Homeless/halfway house	16
Prison	8
IVDU, %	
Ever	88
Within 6 months	37
Current OST	12
Treatment site, %	
University Hospital	65
Addiction Hospital	30
Penitentiary	5

Program *Liečba ako prevencia* sa na Islande premietol do significantnej redukcie prevalence a incidencie v populácii PWID

Francúzsko - Perpignan



One 5-hour Test-to-treat session



Centre Hospitalier de Perpignan

HEPATITIS MOBILE TEAM News Tools of screening viral hepatitis in real life: the french model of care



2 Test-to-treat project: Mobile Hepatitis Team (MHT)

André-Jean Remy and Hakim Bouchkira, Perpignan, France



MHT supports a Test-to-treat strategy

An area of
~500,000¹
people



Perpignan, France

Aim: To increase the number of patients screened, linked to care (LTC) and treated for HCV by conducting all steps from HCV testing to treatment within two clinical sessions with the patient

Target populations for the MHT

- Drug users
- Homeless
- Migrants
- Prisoners
- Psychiatric patients
- Vulnerable people

Why is the model needed?

~150–200,000² people in France infected with HCV
 ~75,000² people infected with HCV are unaware of their status
 <20%¹ of drug users, homeless people and prisoners in France (up to 2016) had access to HCV screening and treatment
 100%* of people with HCV could now be treated with direct-acting antivirals (DAAs)

What is the model and how does it work?

Multidisciplinary team



- 1 hepatologist
- 1 nurse coordinator
- 1 screening nurse
- 1 education nurse
- 1 social worker
- 1 healthcare worker
- 1 secretary

Interventions to enhance HCV testing, LTC and treatment uptake

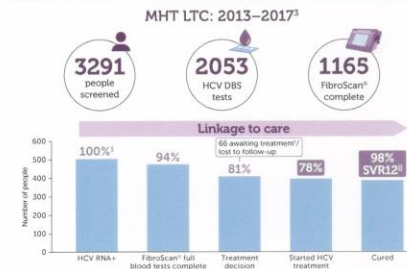
- Multidisciplinary mobile clinic (MHT) offers point-of-care (onsite) testing, counselling and liver disease assessment
- Patients are identified during MHT outreach sessions³ using point-of-care testing (OraQuick[®] dried blood spot (DBS) tests)
- Social evaluation (case management)
- Nurse-facilitated referral to a dedicated Test-to-treat session 1–2 weeks later



One 5-hour Test-to-treat session in practice

- Point-of-care testing (onsite, MHT): Cepheid Xpert[®] HCV Viral Load
- Point-of-care (onsite, MHT) non-invasive liver disease assessment using transient elastography (FibroScan[®])
- Point-of-care (onsite, MHT) nurse-led pre-treatment counselling
- Formal group information session including motivational interviewing/therapeutic education and harm reduction counselling provided by nurse
- Pangenotypic DAA treatment initiation

Outcomes



Test-to-treat: preliminary results March–August 2018³

52 eligible patients⁴ 9 sessions/7 sites
 1 drug unit
 1 prison
 5 social care units

51 (98%) patients attended their Test-to-treat session

29 (57%) were HCV RNA positive

27 (93%) HCV RNA positive patients started treatment

The simplified multidisciplinary Test-to-treat model, supported by the MHT, demonstrates that it is both feasible and effective to carry out HCV RNA testing, LTC and treatment in only one clinical encounter for patients who have already tested positive for HCV antibodies

1. Remy AJ, et al. AASLD 2016; Poster #775; 2. Remy AJ, et al. INSHU 2016; Poster #61; 3. Remy AJ, et al. Unpublished data.
 *The MHT model started prior to May 2016 when the French Health Ministry announced treatment for all HCV patients. The MHT operates at partner centres including low-threshold drug centres, methadone centres, housing and community associations and prisons; operations of the MHT have been previously described.¹ ²Some patients were seen prior to June 2016 when the French Health Ministry announced treatment for all HCV patients. ³560 patients with positive serology (98/395 (98%) of patients starting treatment; 5 relapsed, 3 new infections; 77% of HCV RNA positive cohort. ⁴Patients who have social insurance, who tested HCV antibody positive by DBS or serology during a prior MHT outreach session, who have unknown HCV viral load or were previously treated without control after treatment.



This initiative has received part funding from Gilead Sciences.
 This meeting has been organised and funded by Gilead Sciences Europe Ltd.
 Date of preparation: August 2018. HCV/19-03/1338th © Gilead Sciences Europe Ltd.



Belgicko - Antverpy



Integrovaný model starostlivosti - „not under one roof“



3 Antwerp Free Clinic

Stefan Bourgeois, Stefan Bratovanov, Tessa Windelinckx, Antwerp, Belgium

20 years of HCV management at the Free Clinic, Antwerp

Holistic Antwerp 'not under one roof' model for HCV management – started in 2015



Free Clinic



ZNA Stuivenberg

1,200,000¹

people living in the Antwerp Metropolitan Area

Antwerp, Belgium



Aim: An integrated, multidisciplinary model of care with a strong peer-support programme provides a continuum of HCV care from diagnosis, through to linkage to care (LTC), treatment and prevention of reinfection

Why is the model needed?



Target population: people who inject drugs (PWID)

- One of the leading sources of new HCV infections worldwide²
- Stigmatised, hidden population with limited access to mainstream healthcare²

What is the model and how does it work?

- Intervention used to enhance HCV testing, LTC and treatment uptake
- Integrated HCV care with peer support in a low-threshold setting, including point-of-care (onsite) HCV assessment (rapid HCV antibody testing)
 - Community-based nurse-led HCV evaluation, therapeutic education, pre-treatment counselling
 - Subsequent referral to hepatitis specialist for HCV evaluation and treatment
 - Follow-up (offsite) HCV RNA testing and non-invasive liver disease assessment using transient elastography (FibroScan®) at ZNA
 - Peer support provides education, scheduling of specialist appointments, home visits to locate individuals, patient navigation at hospital

Free clinic

- Pre-treatment: counselling, general practitioner/nursing care, social work
- HCV screening
- Information and education
- Referral to specialists
- Harm reduction counselling

Needle exchange

- Prevention
- Sterile injections
- Safe injecting technique
- Referral
- HCV screening
- Harm reduction counselling

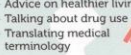


ZNA Stuivenberg

- 'Streetwise' specialist hepatologist
- Staging of liver fibrosis and cirrhosis
- HCV diagnosis and treatment
- Referral for other medical issues
- Treatment follow-up

C-Buddy peer support

- Connecting with new patients
- Guide the patient through the process
 - Appointment reminders
 - Patient navigation at the hospital
 - Advice on healthier living
 - Talking about drug use
 - Translating medical terminology



Why does the model work?

- Flexibility – the model can be changed depending on needs
- Team work – every member is important
- Dedication – every member of the team is committed and involved
- Communication – between the team and with the patients
- Peer support – brings extra value to the care cascade (peers need training, support and guidance)

Outcomes: Free Clinic in 2017³



(n=379) of Free Clinic PWID clients were tested for anti-HCV antibody



of PWID tested were anti-HCV antibody positive (n=286)



of anti-HCV+ patients underwent HCV RNA PCR testing (n=245)



of anti-HCV+ PWID were HCV RNA+ (n=105)

Each member of this dedicated, collaborative team has an important role in improving HCV screening, diagnosis, LTC and treatment among PWID

1. World Population Review – Antwerp. Available at <http://worldpopulationreview.com/world-cities/antwerp-population/> (accessed July 2018); 2. WHO. Global Hepatitis Report, 2017. Available at <http://apps.who.int/iris/bitstream/handle/10665/255016/9789241565455-eng.pdf;jsessionid=B352A81568E30F43D4FC40CF4430?sequence=1> (accessed July 2018); 3. Bourgeois S, Bratovanov S, Windelinckx T. Unpublished data.



This initiative has received part funding from Gilead Sciences. This meeting has been organised and funded by Gilead Sciences Europe Ltd. Date of preparation: August 2018. HCV/94/18-03/1338b © Gilead Sciences Europe Ltd.



Španielsko - Madrid



Mobilná „harm reduction“ jednotka: on-site screening



7th INHSU Cascais, Portugal 9 - 21 September 2018

6 Cañada Real Galiana shanty town

Pablo Ryan and Jorge Valencia, Madrid, Spain

Cañada Real Galiana, a shanty town on the outskirts of Madrid, has a population of

~40,000¹

Coordinated effort between Hospital Infanta Leonor (Madrid) and an NGO-operated mobile harm reduction unit (Servicio Móvil de Atención Sanitaria a Drogodependientes (SMASD)) based in Cañada Real



Madrid, Spain

Aim: To provide HCV screening, linkage to care (LTC), treatment and cure in a vulnerable, marginalised and difficult-to-reach population

Why is the model needed?

90%²

of sales and consumption of illegal drugs in the region occur in Cañada Real

~400-600³

people per day go to Cañada Real to score drugs

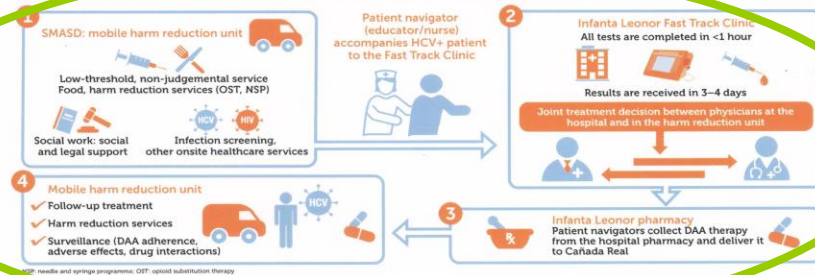
55%²

of recent injection drug users in Cañada Real are infected with HCV

Barriers to HCV care in Cañada Real

- Poor/no access to healthcare
- Lack of knowledge about new direct-acting antiviral (DAA) therapies
- Lack of motivation to seek treatment
- Long waiting times for liver consultation
- Fear of stigmatisation
- Inability to manage and lack of resources to attend multiple medical appointments
- Irregular adherence to long-term treatment

What is the model and how does it work?

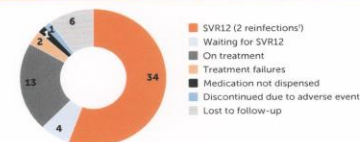


Interventions used to enhance HCV testing, LTC and treatment uptake

- Integrated point-of-care (onsite) HCV testing, counselling and education in a low-threshold setting (NGO-operated SMASD harm reduction unit in Cañada Real Shanty Town)
- Patient navigation* and facilitated referral to specialist for HCV evaluation and treatment (Infanta Leonor)
- Offsite non-invasive liver disease assessment using transient elastography (FibroScan[®]) and confirmatory HCV RNA testing (Infanta Leonor Fast Track Clinic)
- Treatment follow-up as a directly observed treatment, onsite follow-up clinical appointments and blood tests, therapeutic surveillance and education, and reintegration counselling (Cañada Real)

Outcomes: the Cañada Study Group⁴

Intention-to-treat population (n=61)



Low-threshold and non-judgemental services and coordination with the community are essential to build trust in order to improve HCV screening, LTC and harm reduction among this vulnerable, marginalised population

Models of care must be adapted to the needs and circumstances of the target population

¹ Frayer L. National Public Radio (27 April 2012). Available at: <https://www.npr.org/2012/04/27/150824509/showdown-booms-over-europes-largest-shantytown> (accessed 11 July 2018); ² Ryan P et al. EACS 2015; Poster #PE13/1; ³ Ryan P. Personal communication; ⁴ Valencia J et al. AASLD 2017; Poster #1148; *Patient navigation services include: appointment scheduling, appointment reminders, accompanying patients to Fast Track Clinic, collection of DAA therapy from hospital pharmacy; †Reinfections occurred after the 12-week post-treatment period; mITT: modified intention to treat; NGO: non-government organisation.

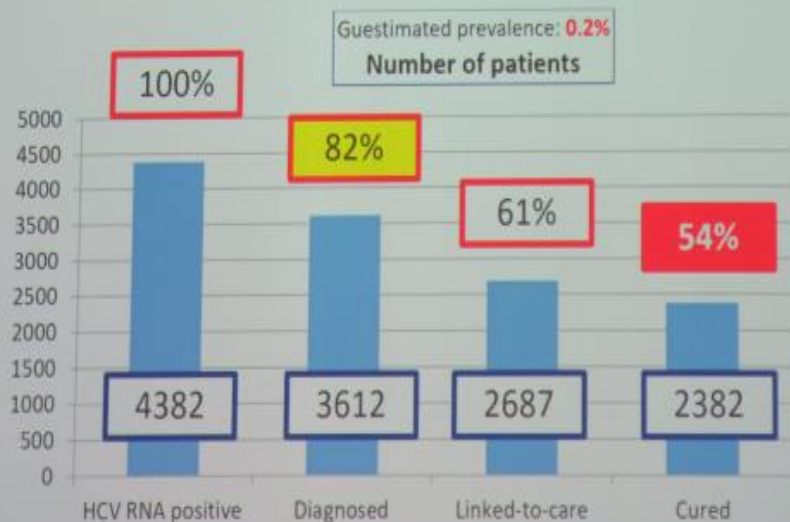


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Slovensko

SLOVENIA The cascade of HCV care in 2019



ECDC - Monitoring HCV infection - Report from Slovenia, March 2019. Unpublished data

FUTURE plans for micro-elimination: PWID in low-treshold settings

Anti-HCV positive PWID in two examined periods: 2017 (N=129) and 2018 (N=78)
In 2017: 38% anti-HCV positive
In 2018: 42% anti-HCV positive; 12% F3-F4

In 2019: MOBILE OUTREACH UNITS:

Testing
Fibroscan
Linkage-to-care



REPUBLIC OF SLOVENIA
MINISTRY OF HEALTH

univerzitetni
klinični center ljubljana



Univerza v Ljubljani
Medicinska fakulteta

SLOVENIA HEP

Cernota J et al. National Conference on HCV in PWID, Ljubljana, March 6, 2019.

Eliminácia VHC predpokladá vzájomnú spoluprácu

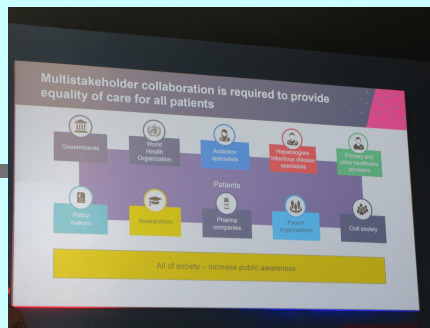


Záver

Advisory Board – 22.5.2019

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Pacient/ klient:

- PWID
- Epidemiologická anamnéza
- Hepatopatia
- Ideálne každý

Vyšetrenie:

- Bi, AST, ALT, GMT
- Anti - HCV

Centrá pre liečbu HCV infekcie:

www.virusova-hepatitida.sk/liecebna-centra

LIEČEBNÁ CENTRÁ

Odborné pracoviská, ktoré sa špecializujú na diagnostiku a liečbu vírusovej hepatitídy C

Banskobystrický kraj kraj

Bratislavský kraj

Košický kraj

Nitrianský kraj

Prešovský kraj

Trenčianský kraj

Trnavský kraj

Žilinský kraj

Pracoviská pre liečbu vírusových hepatítíd¹

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Literatúra: 1. <https://www.slovhep.sk/pracoviska/zobrazit-ambulancie/>

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Pracoviská pre liečbu vírusových hepatítíd¹

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Ďakujem

