Best practices:

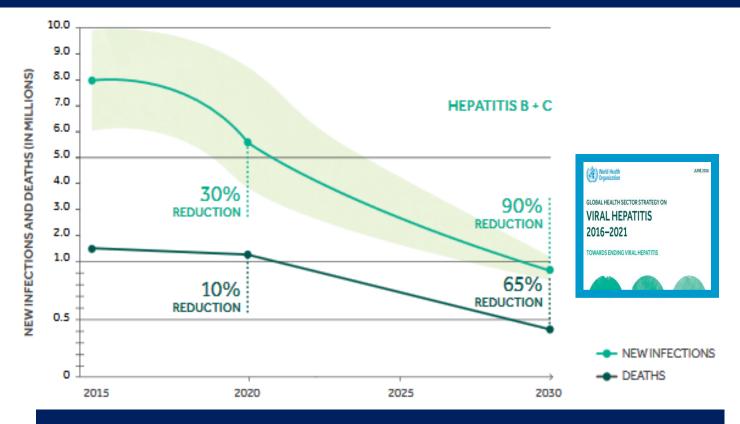
National Hepatitis approach of Slovenia

Prof. Mojca Matičič, MD, PhD

University Medical Centre Ljubljana
Faculty of Medicine, University of Ljubljana
Slovenia

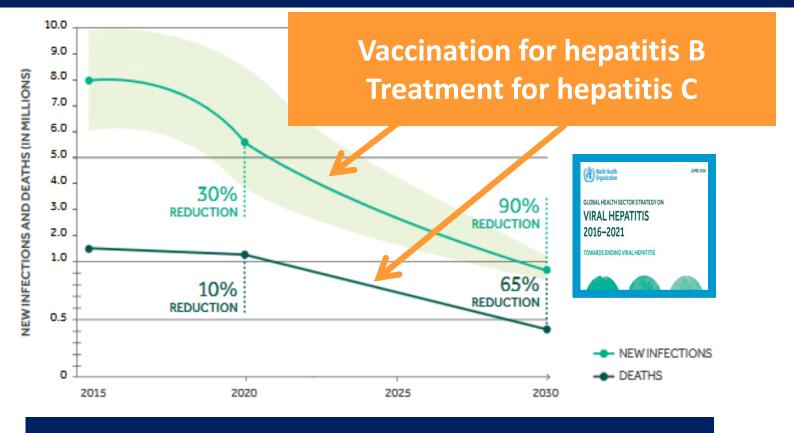
VHPB Meeting, Budapest: October 31, 2019

WHO strategy towards elimination of viral hepatitis as a public health threat (from 2016)



Goals for reducing new cases of infection and deaths from chronic hepatitis B and C by 2030

WHO strategy towards elimination of viral hepatitis as a public health threat (from 2016)

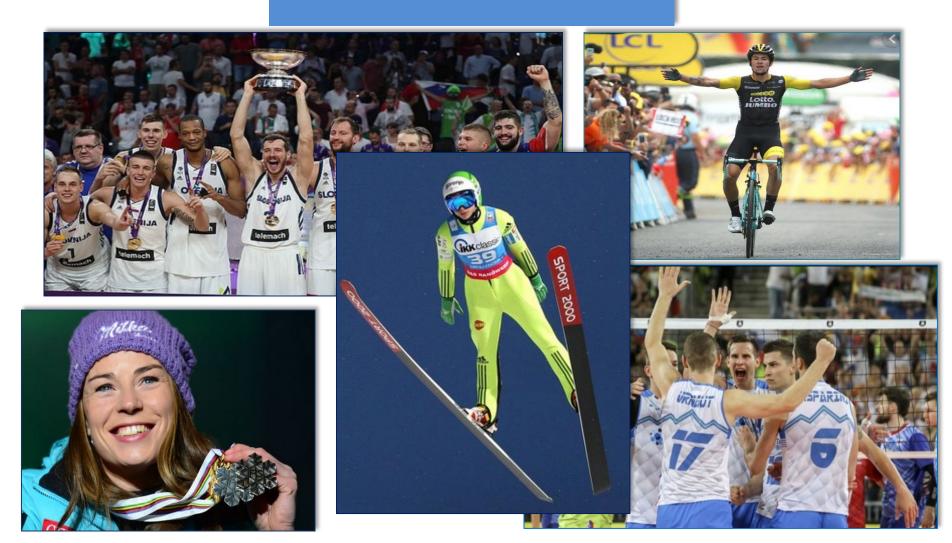


Interventions for achieving the goals represent a continuum of services





Inhabitants: 2 million



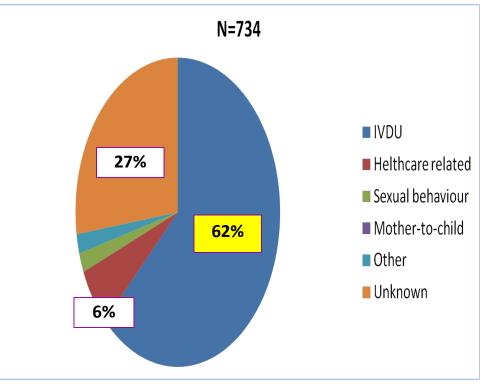
SLOVENIA **Hepatitis C**





HCV RNA prevalence	HCV RNA positive	PWID
%	N	N
est. 0.3	est. 6 500	est. 6-8 000

Anti-HCV positive persons by risk groups (period 2008-2015)



Alfaleh FZ, Nugrahini N, Maticic M, et al. J Viral Hep **2015**; 22(Suppl 4): 42-65.

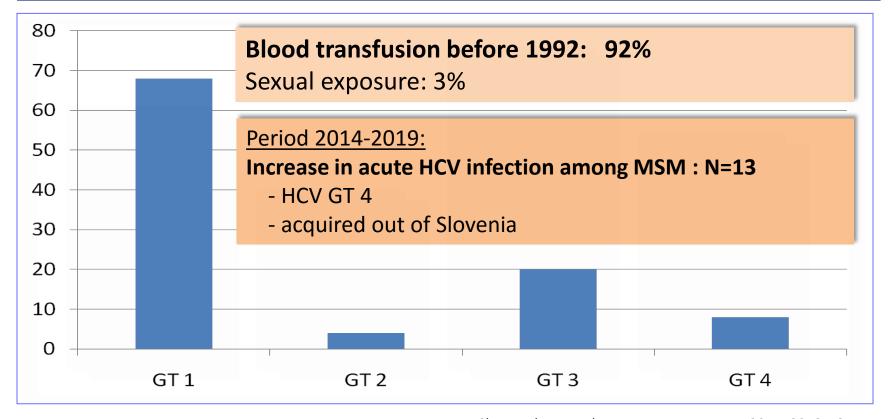
Gregorčič S et al. ECCMID 2018. Madrid, April 23, 2018. Poster #Mon-13.

SLOVENIA 1986-2013

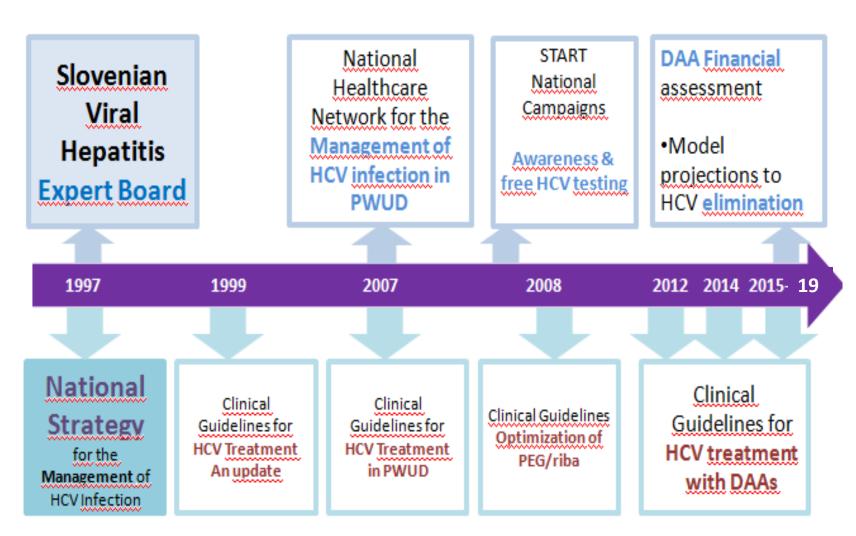
Co-infected HIV/HCV

• HIV/anti-HCV positive: 44/579 = **7.6%**

HIV/HCV RNA positive: 33/579 = 5.7%

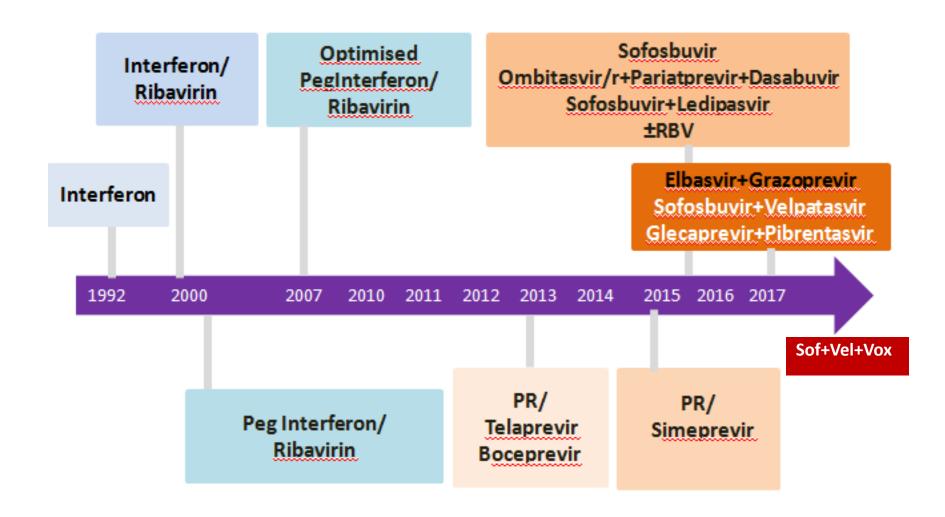


22 years of the national policy for HCV management

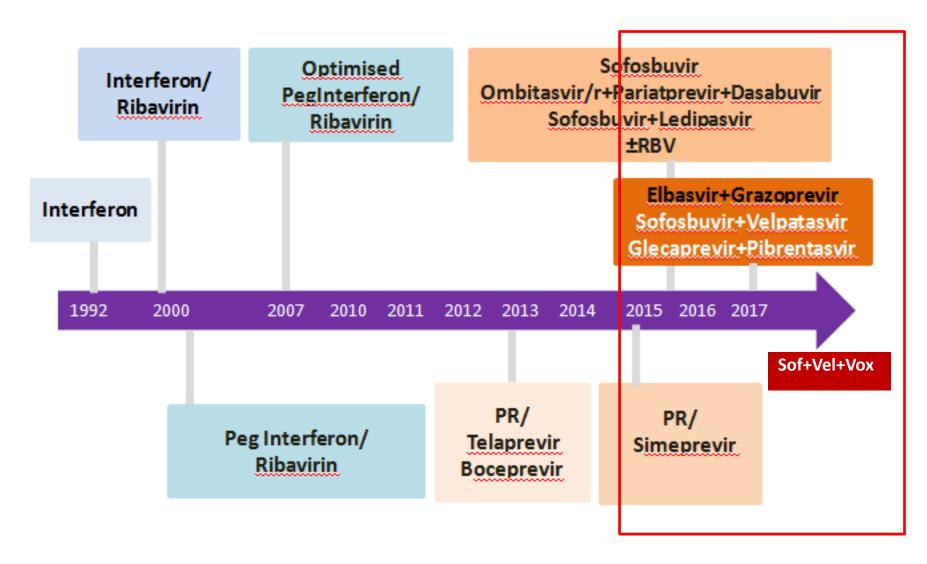


Matičič M et al. Isis 1999; 8: 49-51. Matičič M, Kastelic A. Zdrav Vestn 2009; 78: 529-39. Matičič M, Poljak M. Zdrav Vestn 2010: 79. 58-78.

Availability of standard-of-care treatment for HCV period 1992 – 2018



Availability of standard-of-care treatment for HCV period 1992 – 2018



HCV treatment policy

5 centers for HCV treatment



Treatment for everybody since 1997

- National Health Insurance System
- NO restrictions
 - except DAAs in 2015-2017 (F score; some high-risk groups prioritised)
- PWID: Never contraindicated

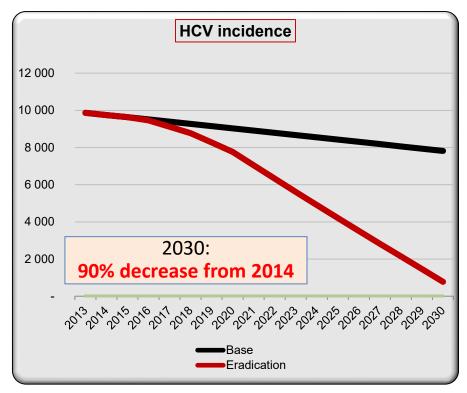
Prescribers:

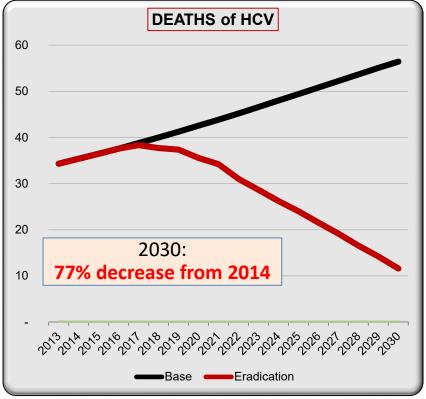
- Nominated specialists (infectologists, hepatologists)
- National guidelines
- National register of all the treated patients (since 1997)

SLOVENIA: 2014-2030

Model projection: HCV elimination seems feasible

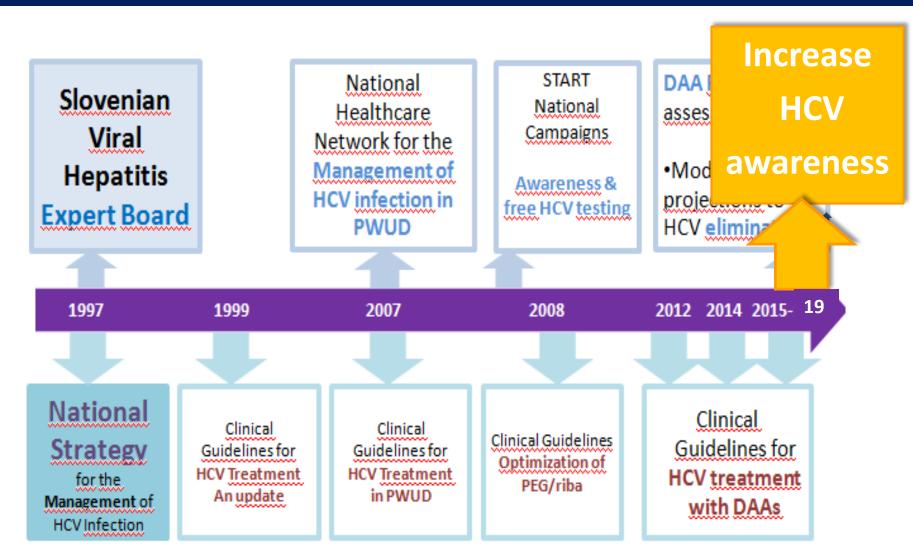
Use of Direct Acting Antivirals, reasonably increasing diagnosis and treatment rates





Alfaleh FZ, Nugrahini N, Maticic M, et al. J Viral Hep Oct 2015; 22(Suppl 4): 42-65.

22 years of HCV management policy



Matičič M et al. Isis 1999; 8: 49-51. Matičič M, Kastelic A. Zdrav Vestn 2009; 78: 529-39. Matičič M, Poljak M. Zdrav Vestn 2010: 79. 58-78.

National Viral Hepatitis Expert Group. Consensus guidelines for DAA treatment. Ljubljana, December 6, 2017.



HEP-Y

Spletna aplikacija za prepoznavanje in informiranje o hepatitisih

Ali ste okuženi z virusom hepatitisa?

https://hepy.mf.uni-lj.si







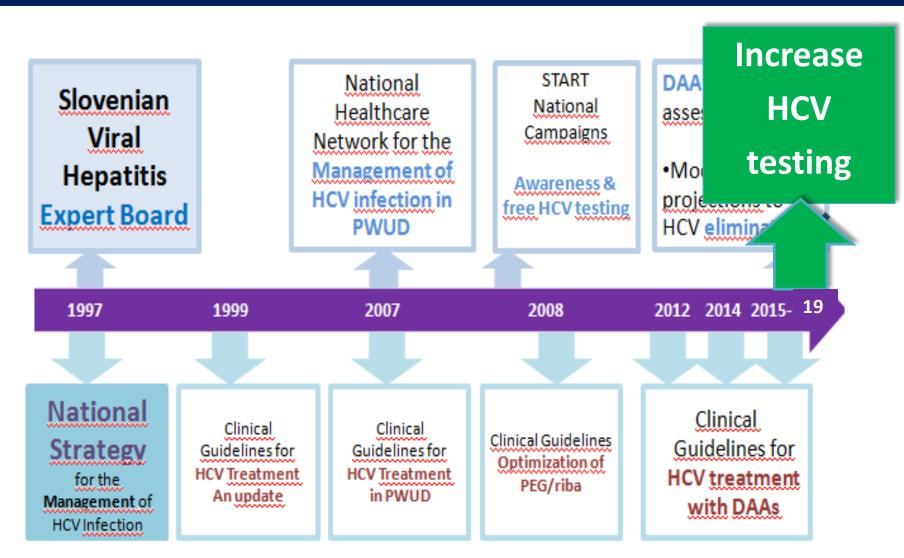








22 years of HCV management policy



Matičič M et al. Isis 1999; 8: 49-51. Matičič M, Kastelic A. Zdrav Vestn 2009; 78: 529-39. Matičič M, Poljak M. Zdrav Vestn 2010: 79. 58-78.

National Viral Hepatitis Expert Group. Consensus guidelines for DAA treatment. Ljubljana, December 6, 2017.

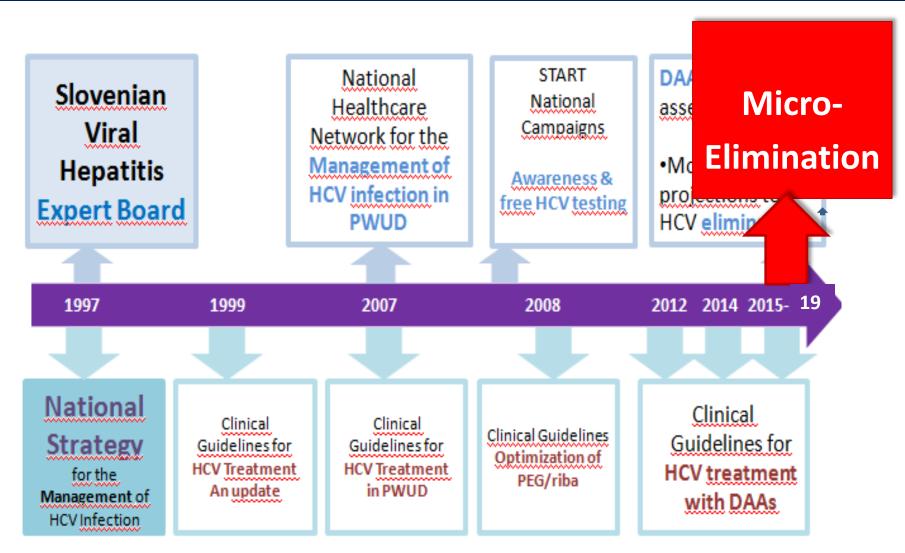
HOW to increase HCV TESTING??

HCV Testing outside hospital settings:

- ✓ GPs
- ✓ Certain specialists (extrahepatic manifestations of HCV)
- ✓ STI specialists
- ✓ Anonymous free-of-charge testing
- Outside healthcare settings Within high-risk groups:

Network of OST Centers MSM NGOs Prisons

22 years of HCV management policy

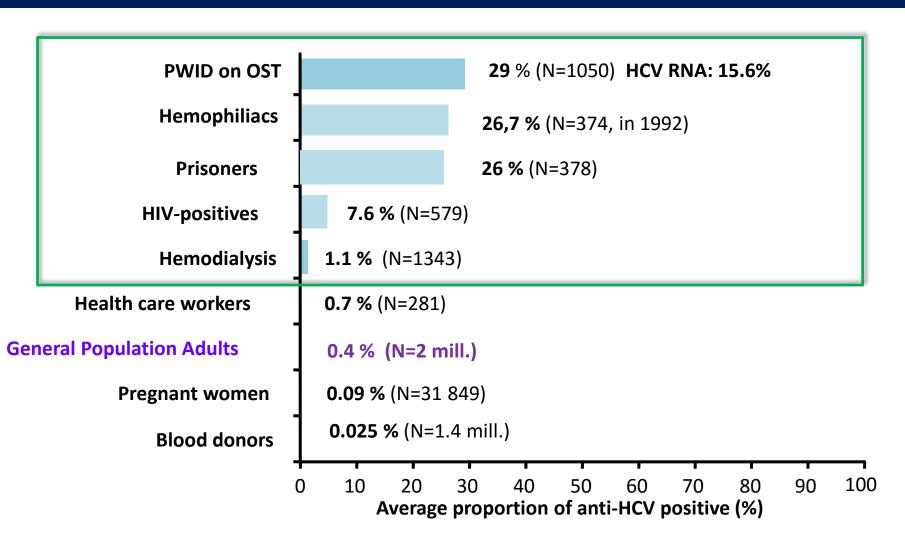


Matičič M et al. Isis 1999; 8: 49-51. Matičič M, Kastelic A. Zdrav Vestn 2009; 78: 529-39. Matičič M, Poljak M. Zdrav Vestn 2010: 79. 58-78.

National Viral Hepatitis Expert Group. Consensus guidelines for DAA treatment. Ljubljana, December 6, 2017.

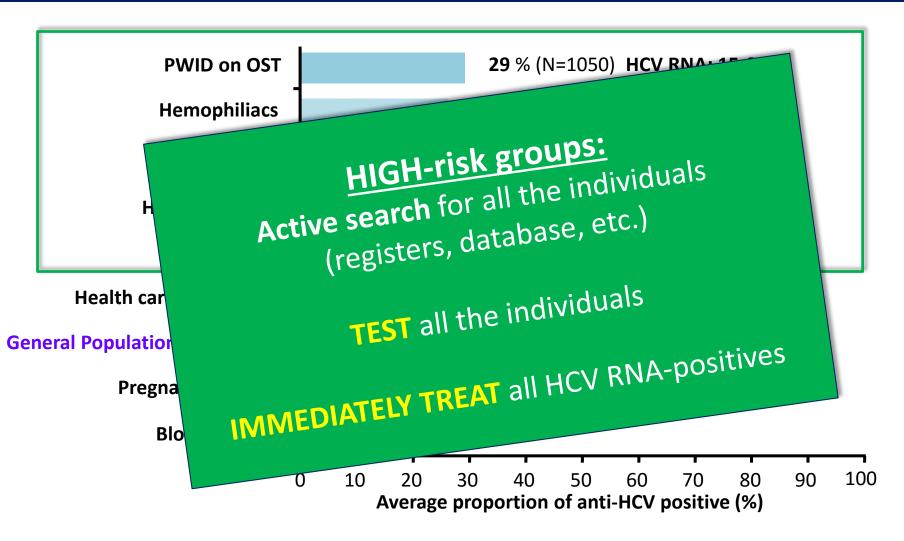
SLOVENIA 2000-2015

Anti-HCV prevalence by selected groups



SLOVENIA 2000-2015

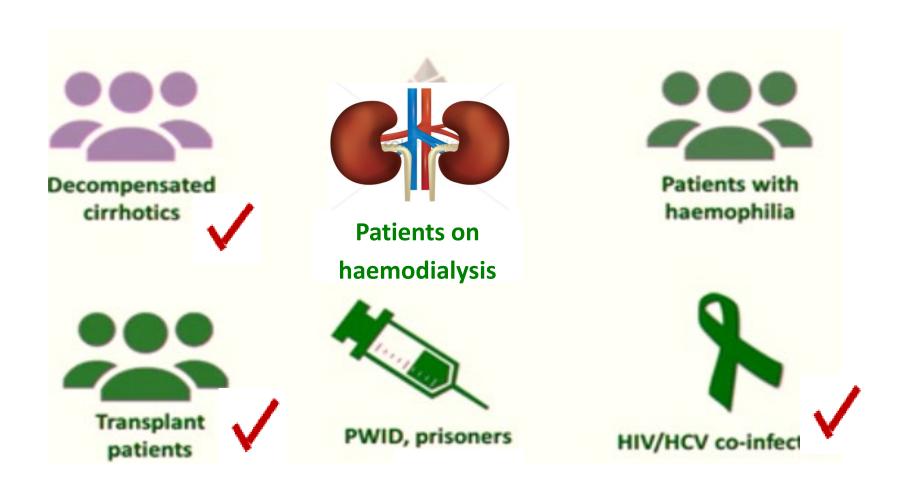
Anti-HCV prevalence by selected groups



SLOVENIA in 2017

HCV micro-elimination:

It became adopted in certain high-risk populations

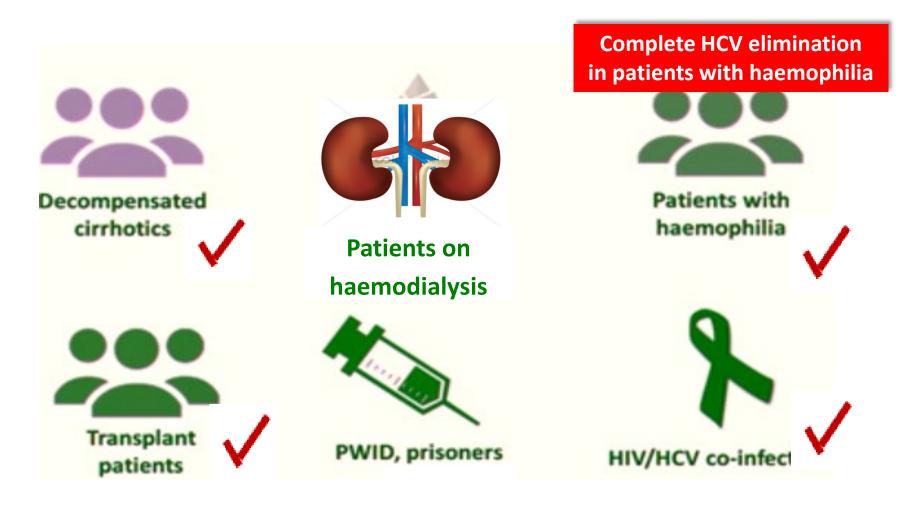


Lazarus JV et al. J Hepatol. 2017;67: 665-6.

Maticic M et al. EASL ILC 2018. Poster #THU-126.

HCV micro-elimination:

It became completed in certain high-risk populations



HCV infection in HAEMOPHILIACS



- A comprehensive management of haemophiliacs has been organized systematically and with extreme care since 1967
- Donated blood has been tested since 1992
- The management of HCV infection in those infected before 1992 has been organized systematically for over two decades with all of them screened for HCV in the mid-1990s

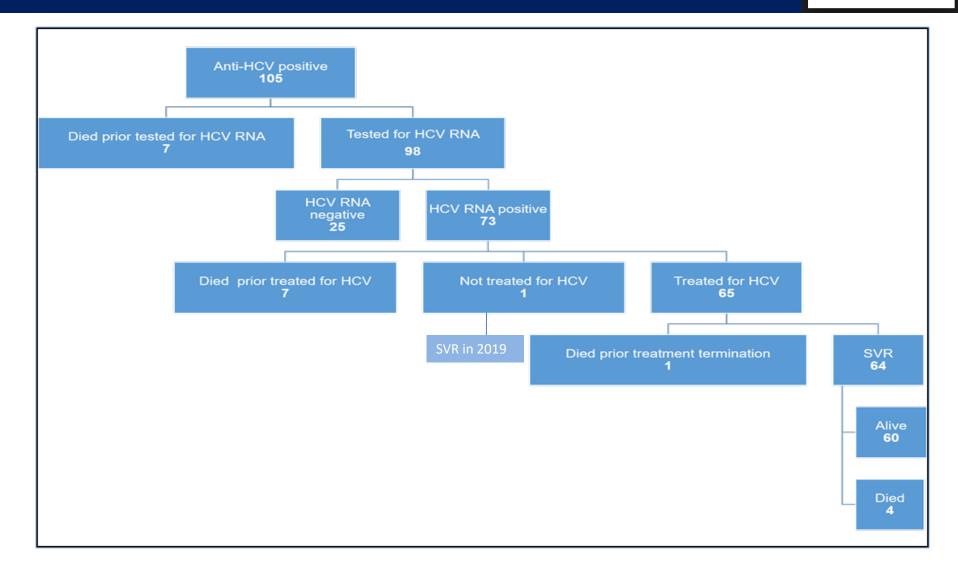
HCV infection in HAEMOPHILIACS



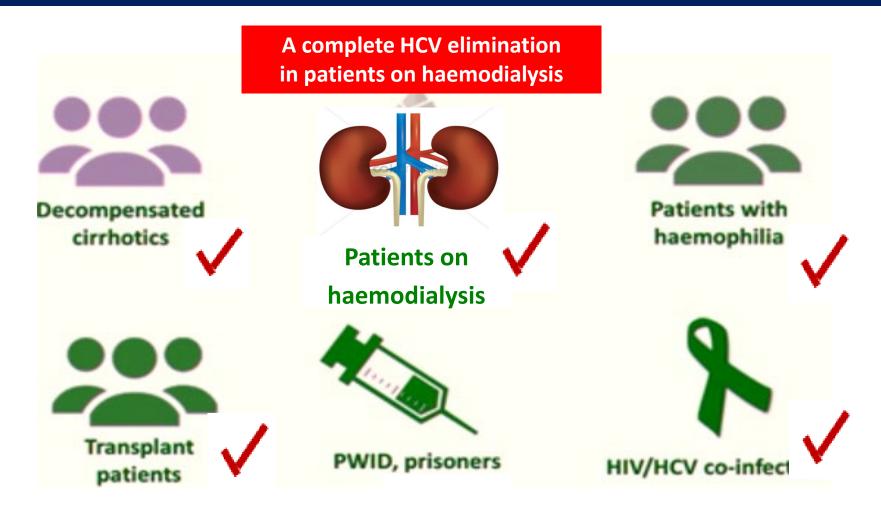
- A comprehensive management of haemophiliacs has been organized systematically and with extreme care since 1967
- Donated blood has been tested since 1992
- The management of HCV infection in those infected before 1992 has been organized systematically for over two decades with all of them screened for HCV in the mid-1990s
- With the advent of DAAs, a national strategy for HCV micro-elimination in this sub-population was prepared by a multidisciplinary expert team
- In case the patient has not been treated yet successfully, he was actively invited to the infectologist (repetedly, if necessary!!!)
- DAA treatment was prioritised and introduced immediatelly

The analysis tree of haemophiliacs treated for HCV



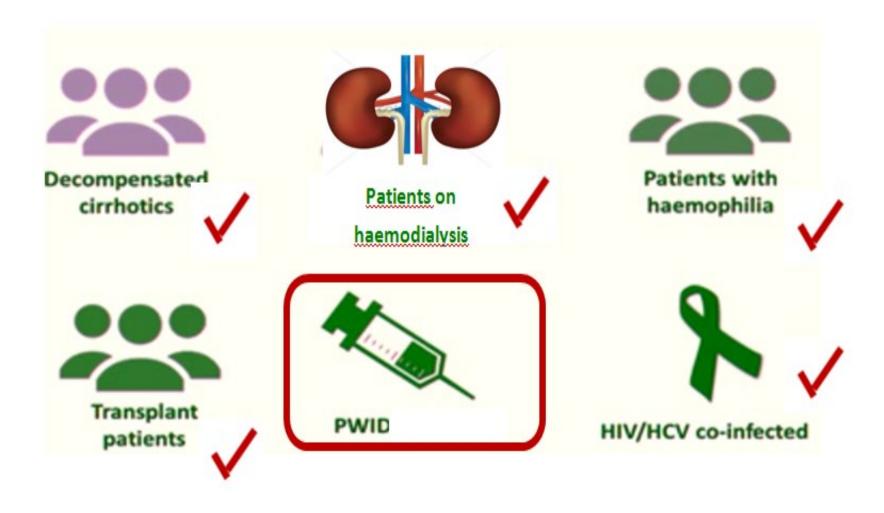


HCV micro-elimination: It became feasible in certain high-risk populations



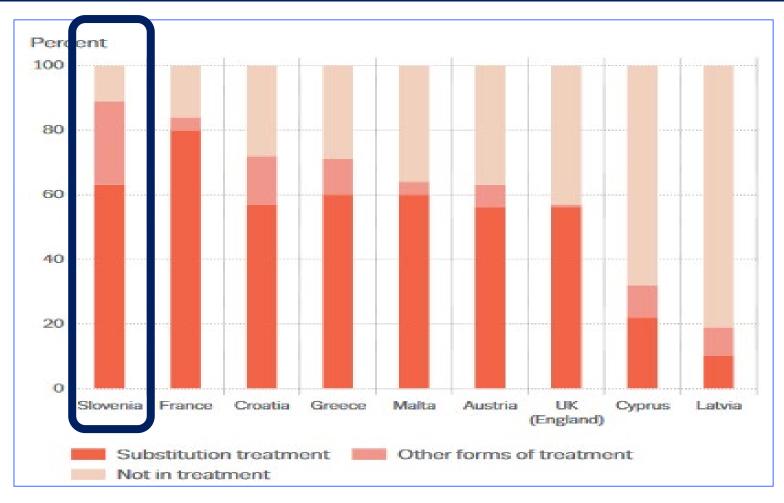
SLOVENIA in 2018

HCV micro-elimination in 2018: It became feasible in certain high-risk populations



Lazarus JV et al. J Hepatol. 2017;67: 665-6. Maticic M et al. EASL ILC 2018. Poster

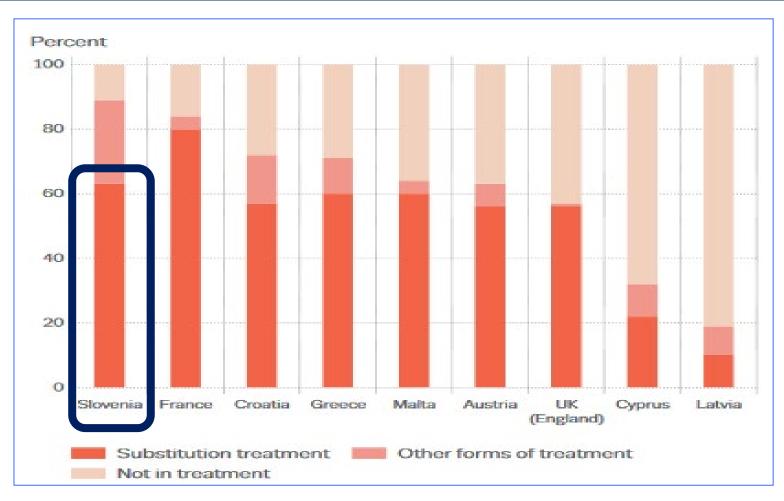
Percentage of high-risk opioid users receiving drug treatment in European countries



EMCDDA 2017. European Drug Report: Trends and Developments.

http://www.emcdda.europa.eu/system/files/publications/4541/TDAT17001ENN.pdf

Percentage of high-risk opioid users receiving drug treatment in European countries



EMCDDA 2017. European Drug Report: Trends and Developments.

http://www.emcdda.europa.eu/system/files/publications/4541/TDAT17001ENN.pdf

A NETWORK

of 18 Centers for treatment and prevention of drug addiction



NIJZ. National Drug Report. 2017 http://www.nijz.si/sites/www.nijz.si/files/publikacije-datoteke/np 2017 zadnja.pdf.

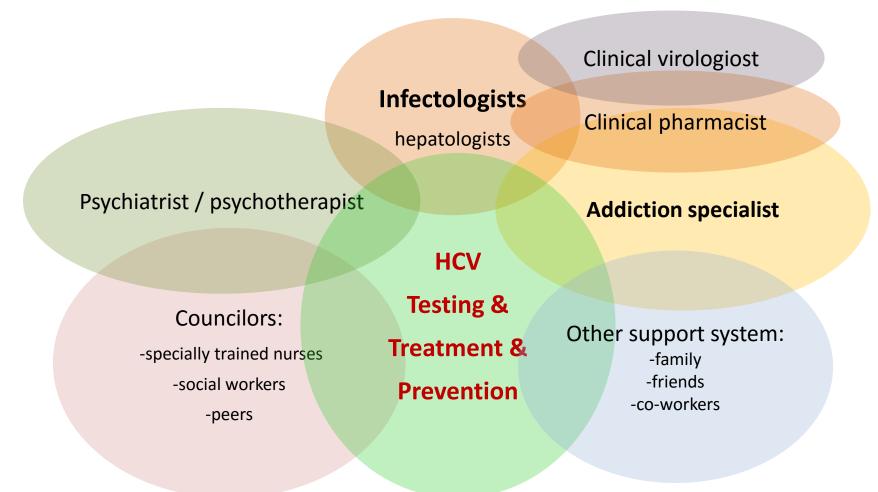
National healthcare network for HCV management in PWID

INTEGRATED: 18 Centers for treatment and prevention of of drug addiction 5 Centers for treatment of viral hepatitis

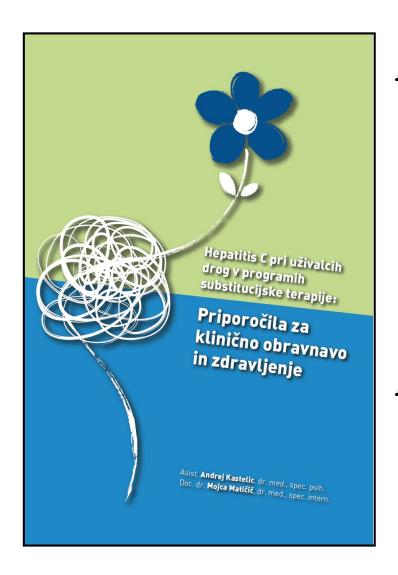


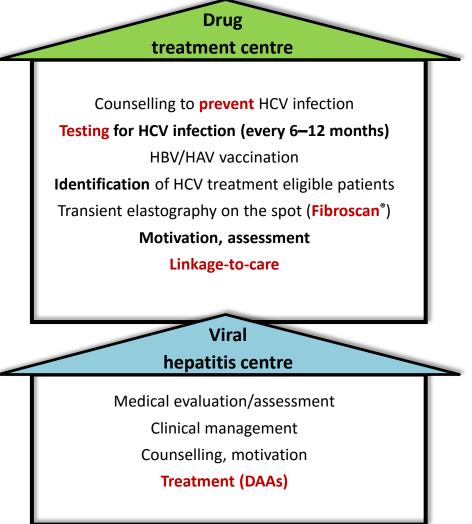
SLOVENIA since 2007

National healthcare network for managing HCV in PWUD A multidisciplinary team

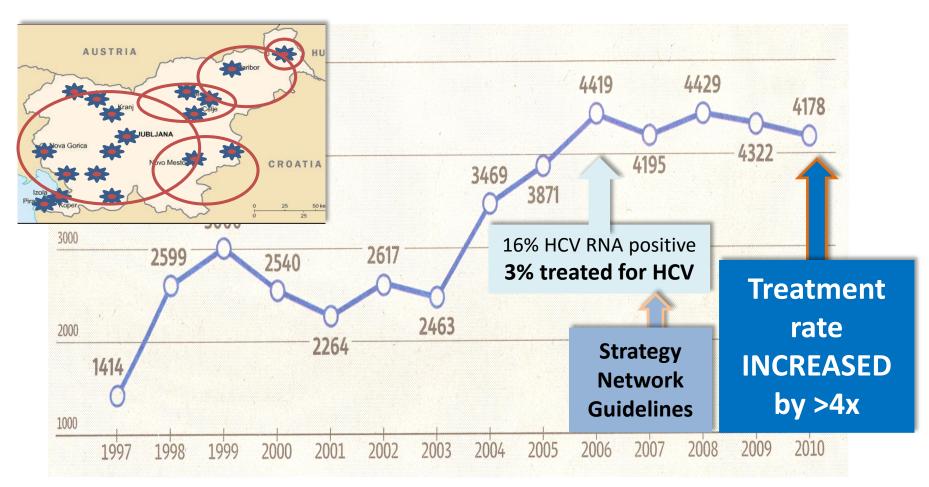


National healthcare network for managing HCV in PWUD An integrated approach



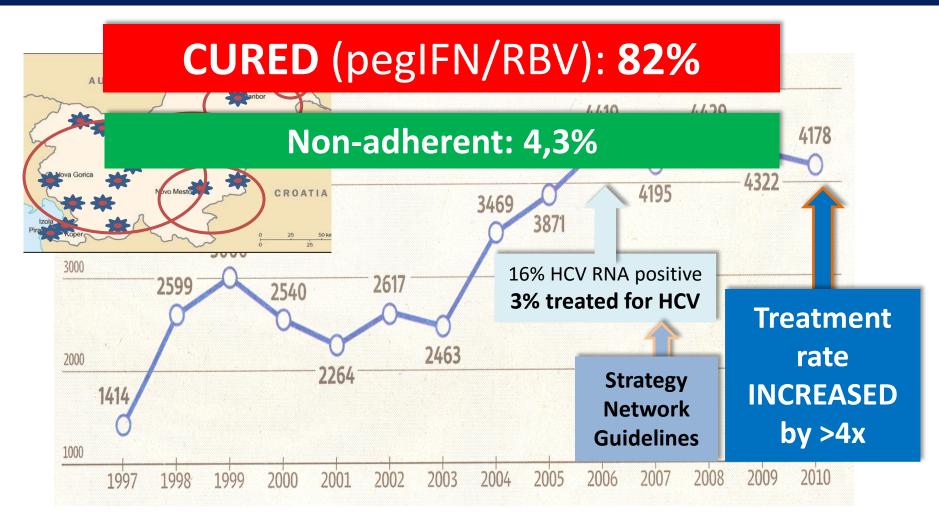


HCV treatment success in the national healthcare network, 2008-2010



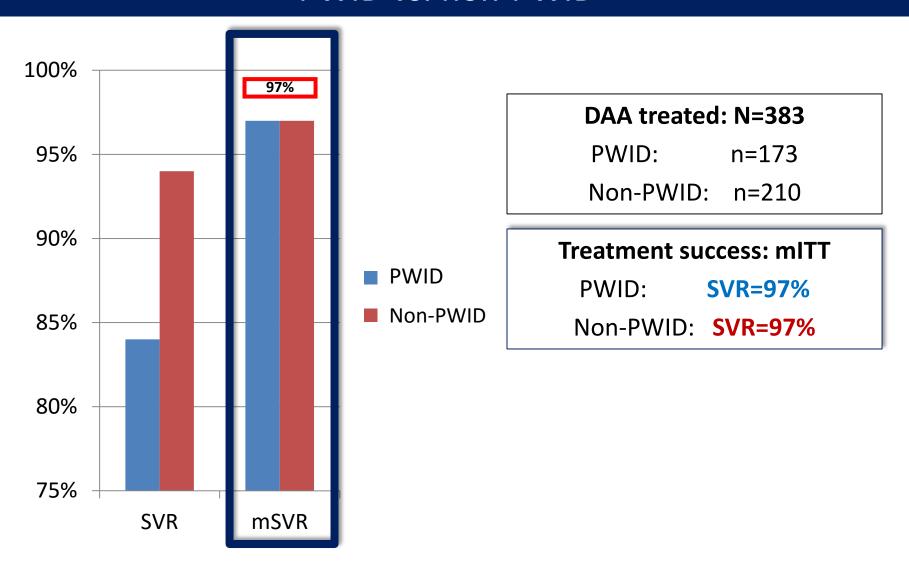
Coordination of Centers for Prevention and Treatment of Illict Drug Abuse, Slovenia 2011. Maticic M, Kastelic A. Zdrav Vestn 2009; 78: 529-39. Maticic M et al. Suchtmed 2013; 15: 245. Maticic M et al. BMC Infect Dis 2014; 14(Suppl 6): 12-3.

HCV treatment success in the national healthcare network, 2008-2010



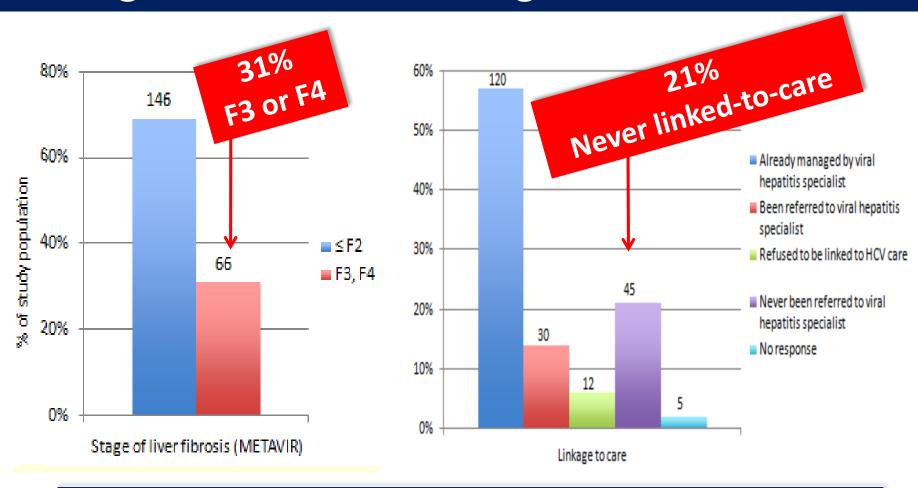
Coordination of Centers for Prevention and Treatment of Illict Drug Abuse, Slovenia 2011. Maticic M, Kastelic A. Zdrav Vestn 2009; 78: 529-39. Maticic M et al. Suchtmed 2013; 15: 245. Maticic M et al. BMC Infect Dis 2014; 14(Suppl 6): 12-3.

Efficacy of DAA treatment (SVR), period 2015-2017 PWID vs. non-PWID



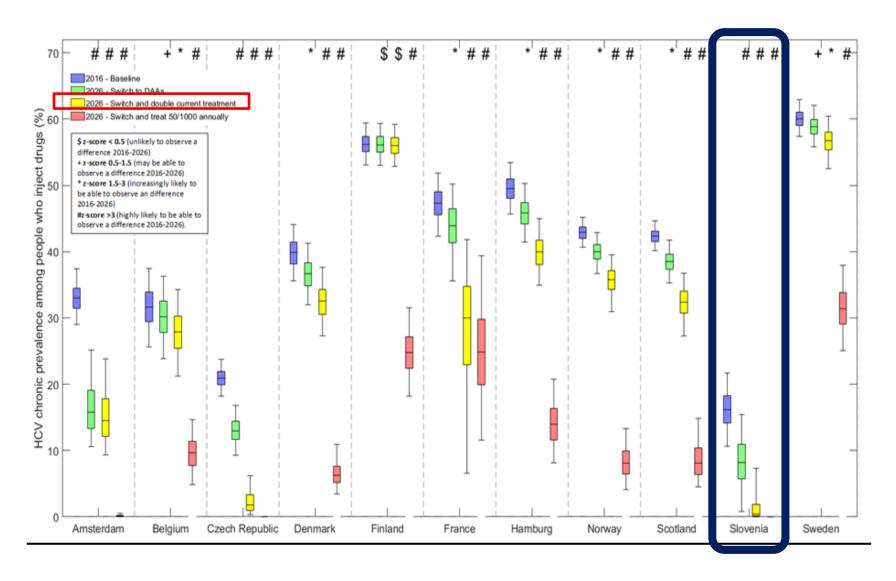
Network of Centres for Prevention and Treatment of Drug Addiction

Stage of fibrosis and linkage-to-care in PWUD



Results of a national study, period 2016/2017 (N=212)

A modeling study towards HCV micro-elimination in PWID (2016-2026)



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

In 2019:

MOBILE OUTREACH UNITS:

Testing
Fibroscan
Linkage-to-care











FUTURE plans for micro-elimination: **PRISONERS**

Average number of prisoners in Slovenia: 1350

Prison	Number of known HCV-positive prisoners	
LJUBLJANA	146	
MARIBOR	76	
NOVO MESTO	74	
CELJE	4	
Total	300	(22%)





N=276

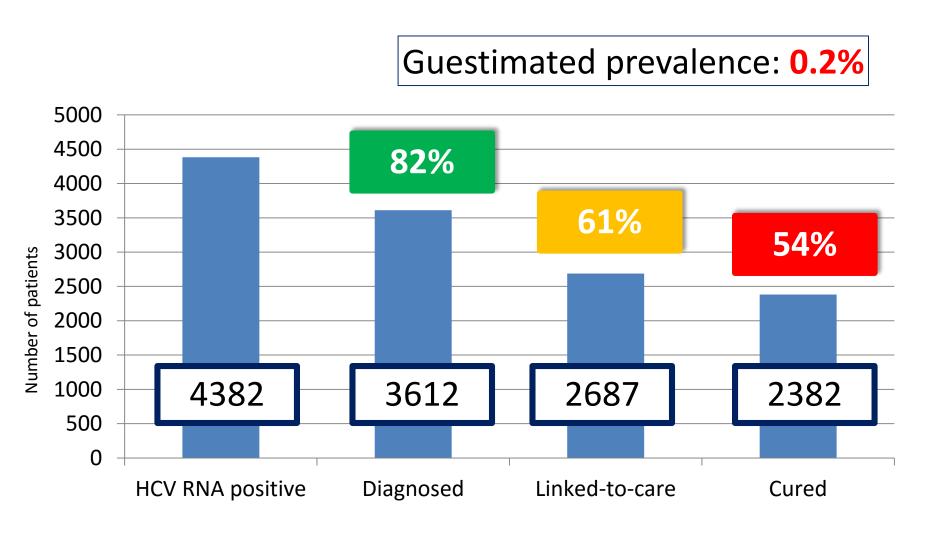
Managed at the infectologist



N=94 (34%)

HCV CURE while in prison

The cascade of HCV care in 2019



CONCLUSION

Slovenia:

- Has a potential to eliminate HCV as a public health problem before 2030
- Micro-elimination has been completed in some major highrisk groups
- However, an increase in identifying the infected and linkageto-care is still needed
- Cooperation between medical services and non-medical organisations is crucial



Thank you!