



- WHO Viral Hepatitis Strategy 2016-2021
- WHO HBV and HCV Elimination Targets for 2020 and 2030
- · Current Australian situation in relation to WHO targets
- HCV treatment uptake and modelling-based elimination scenarios
- · Key issues for HBV and HCV elimination in Australia

KrbyIn

2.5 2.0 **DEATHS (MILLIONS)** 1.5 1.1 1.0 - HEPATITIS 0.5 - HIV MALARIA 0.0 ТВ 2000 2005 2010 2015

Global Burden of Infectious Diseases

3

WHO global health sector strategy on viral hepatitis 2016–2021. Available at: http://www.who.int/hepatitis/strategy2016-2021/ghss-hep/en/ (accessed March 2018).

WHO Viral Hepatitis Strategy: 2016-2021

Elimination of viral hepatitis as a major public health threat by 2030



WHO Global Health Sector Strategy on Viral Hepatitis, 2016–2021. Available at: http://apps.who.int/iris/bitstream/10665/246177/1/IWHO-HIV-2016.06-eng.pdf?ua=1; WHO. Combating Hepatitis B and C to Reach Elimination by 2030. Available at: http://apps.who.int/iris/bitstream/10665/206453/1/WHO_HIV_2016.04_eng.pdf?ua=1 (both accessed May 2018)

Krbylr

WHO Viral Hepatitis Elimination Targets: 2016



5

WHO global health sector strategy on viral hepatitis 2016-2021. Available at: http://www.who.int/hepatitis/strategy2016-2021/ghss-hep/en/ (accessed March 2018).

							KrbyInsch
/HO Vir	al Hepa	titis S	trategy	: 2016 [.]	-2021		
Service coverage targets	Baseline 2015	2020 Targets	2030 Targets	Australia	in 2017		
Hepatitis B virus vaccination: childhood vaccine coverage (third dose coverage)	82% ¹¹ in infants	90%	90%	90-95 %	\checkmark		
Prevention of hepatitis B virus mother-to-child transmission: hepatitis B virus birth-dose vaccination coverage or other approach to prevent mother-to-child transmission	38%	50%	90%	85-90%			
Blood safety	39 countries do not routinely test all blood donations for transfusion-transmissible infections 89% of donations screened in a quality-assured manner ²²	95% of donations screened in a quality- assured manner	100% of donations are screened in a quality- assured manner	100%	\checkmark		
Safe injections: percentage of injections administered with safety-engineered devices in and out of health facilities	5%	50%	90%	99%	\checkmark		
Harm reduction: number of sterile needles and syringes provided per person who injects drugs per year	20	200	300	400	\checkmark		
Viral hepatitis B and C diagnosis	<5% of chronic hepatitis infections diagnosed	30%	90%	61% HBV	; 81% HCV		
Viral hepatitis B and C treatment	<1% receiving treatment	5 million people will be receiving hepatitis B virus treatment	80% of eligible persons with chronic hepatitis B virus infection treated	50% UDV			
		3 million people have received hepatitis C virus treatment	80% of eligible persons with chronic hepatitis C virus infection treated	50% HBV	50% HBV; 30% HCV		
		(Both targets are cumulative by 2020)					

6

WHO global health sector strategy on viral hepatitis 2016-2021. Available at: http://www.who.int/hepatitis/strategy2016-2021/ghss-hep/en/ (accessed March 2018).



WHO HCV Elimination Targets: Progress



WHO 2018: Progress report on access to hepatitis C treatment (WHO/CDS/HIV/18.4)



```
9
```

CDA 2018: Polaris Observatory (http://centerforda.com/polaris/)



Kirby Institute 2018

DAA uptake very high in patients with cirrhosis



Hajarizadeh B, et al. J Viral Hepat 2018; Dore GJ & Hajarizadeh B. Infect Dis Clin N Am 2018



Larney S, IJDP 2017; Kirby Institute 2017



DAA uptake high in current PWID

Annual Needle Syringe Program Survey (n = 2,000-2,500)

Iversen J, et al. AVHC 2018.

CEXSE

HCV elimination in HIV population

HCV RNA prevalence among HIV/HCV cohort (antibody +ve)

% HCV RNA+



Martinello M, et al. AVHC 2018

HCV elimination in HIV population

🚱 CEXSE

Modelling HCV incidence in Australian HIV population



Salazar Viccaya L, et al. IAS 2018

Treatment scenarios to achieve HCV elimination

Treatment roll-out	2015 (IFN + DAA)	2016	2017	2018	Post- 2019
Pessimistic	7,296	32,600	21,370	12,822 (40%♦)	7,693 (40%♦)
Intermediate	7,296	32,600	21,370	17,096 (20%♦)	13,677 (20%♦)
Optimistic	7,296	32,600	21,370	21,370	21,370



Kwon, A et al. Kirby Institute 2018



Kwon, A et al. Kirby Institute 2018



Kwon, A et al. Kirby Institute 2018



HCV notifications in Australia: 15 – 24 years



NNDSS 2018 (accessed 9 August 2018: http://www9.health.gov.au/cda/source/cda-index.cfm



HBV and HCV Elimination in Australia

Summary

Prof. Alex Thompson (Australia) Prof. Jacob George (Australia) Prof. Ed Gane (New Zealand) **Dr. Homie Razavi (USA)**

- · Several "service coverage" 2030 targets already achieved: HBV vaccination, blood safety, NSP coverage
- On-track for HCV elimination impact targets (declines: 80% incidence; 65% mortality)
- Initial HCV mortality decline (in NSW) consistent with modelling prediction
- Declining HCV treatment initiations of concern, particularly for mortality target
- HBV mortality reduction will require enhanced HBV diagnosis and linkage to care/treatment
- Feasibility of overall global HBV and HCV impact 2030 targets, very low

