

## Treatment outcomes for Indigenous and non-Indigenous inmates with hepatitis C in New South Wales prisons

**TO THE EDITOR:** Davis and colleagues recently described outcomes for Indigenous and non-Indigenous people in the Northern Territory who received antiviral therapy for chronic hepatitis C virus (HCV) infection.<sup>1</sup> They showed similar outcomes when comparing eight Indigenous people with 88 non-Indigenous people who were assessed for sustained virological response (SVR) after interferon-based treatment — SVR was achieved by 50% and 61%, respectively. Outcomes of therapy for HCV infection in Indigenous Australians had not previously been reported.

Here, we extend this observation by reporting the outcomes from a de-identified database held by the hepatitis service of the Justice Health and Forensic Mental Health Network in New South Wales. As these data were de-identified and collected for quality assurance purposes, ethics approval was not sought.

Treatment services for HCV infection have been available in NSW correctional centres for more than a decade.<sup>2,3</sup> Of 788 people treated with pegylated interferon and ribavirin over the period May 2002 to December 2012, 136 (17.3%) were Indigenous (Box). During this period, 16.9%–22.9% of inmates in NSW were Indigenous.<sup>4</sup> Those receiving treatment were recorded as Indigenous (ie, Aboriginal or Torres Strait Islander), white and of English-speaking background, or from a culturally and linguistically diverse background. There were no differences between these groups in the distribution of viral genotypes (predominantly 1 and 3) and the SVR rates were closely comparable, although the proportion of women (who have more favourable treatment outcomes) was higher in the Indigenous patient group.

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inmates. The advent of simpler and better tolerated interferon-free therapies for HCV infection in the next few years will further enhance this treatment opportunity.

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**1** Davis JS, Kulatunga AC, Hajkowicz K. Outcomes for Indigenous and non-Indigenous patients who access treatment for hepatitis C in the Top End of the Northern Territory [letter]. *Med J Aust* 2013; 199: 23.

**2** Boonwaat L, Haber PS, Levy MH, Lloyd AR. Establishment of a successful assessment and treatment service for Australian prison inmates with chronic hepatitis C. *Med J Aust* 2010; 192: 496–500.

**3** Lloyd AR, Clegg J, Lange J, et al. Safety and effectiveness of a nurse-led outreach program for assessment and treatment of chronic hepatitis C in the custodial setting. *Clin Infect Dis* 2013; 56: 1078–1084.

**4** Australian Bureau of Statistics. Prisoners in Australia. Canberra: ABS, 2013. (ABS Cat. No. 4517.0.) [http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/4517.02012?Open Document](http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/4517.02012?OpenDocument) (accessed Jul 2013). □

Comparison of age, sex, HCV genotype and treatment outcomes for white English-speaking, Indigenous and CALD prison inmates who received interferon-based treatment for HCV infection, New South Wales, 2002–2012\*

	Total (n = 788)	White (n = 527)	Indigenous (n = 136)	CALD (n = 125)	P†
Mean (SD) age, years	40.2 (8.6)	40.7 (8.6)	39.2 (8.4)	39.1 (8.8)	0.06
Men	673 (85.4%)	455 (86.3%)	106 (77.9%)	110 (88.0%)	0.03
HCV genotype					0.65
Number assessable	769	511	134	124	
Genotype 1, 4 or 6	351 (45.6%)	224 (43.8%)	69 (51.5%)	58 (46.8%)	
Genotype 2 or 3	390 (50.7%)	269 (52.6%)	60 (44.8%)	61 (49.2%)	
Unknown	28 (3.6%)	18 (3.5%)	5 (3.7%)	5 (4.0%)	
Outcome					0.70
SVR achieved (intent-to-treat analysis)	296 (37.6%)	193 (36.6%)	51 (37.5%)	52 (41.6%)	
SVR not achieved	78 (9.9%)	49 (9.3%)	16 (11.8%)	13 (10.4%)	
SVR not determined	414 (52.5%)	285 (54.1%)	69 (50.7%)	60 (48.0%)	
SVR achieved (evaluable patients)	296 (79.1%)	193 (79.8%)	51 (76.1%)	52 (80.0%)	0.93
Reasons SVR not determined					0.46
SVR assessment pending	52 (12.6%)	39 (13.7%)	8 (11.6%)	5 (8.3%)	
Still on treatment	65 (15.7%)	37 (13.0%)	17 (24.6%)	11 (18.3%)	
Did not complete treatment	59 (14.3%)	39 (13.7%)	10 (14.5%)	10 (16.7%)	
Lost to follow-up‡	238 (57.5%)	170 (59.6%)	34 (49.3%)	34 (56.7%)	

HCV = hepatitis C virus. CALD = culturally and linguistically diverse. SVR = sustained virological response. \* Data are number (%) unless otherwise stated. † One-way analysis of variance and  $\chi^2$  tests were used to test for differences between white, Indigenous and CALD groups. ‡ Loss to follow-up was predominantly because of release from prison. ♦