

# **MORBIDITY AND MORTALITY IN HCV-INFECTED PEOPLE** WHO USE DRUGS (PWUD): BEYOND THE SVR12

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Background	Table 1. HCV SVR12 Demographics		Figure 2. Follow-up post SVR12	
In Canada there are approximately 250,000 individuals currently living with HCV infection. The prevalence	Demographics	n= 386	10	Ο
	Mean Age (years)	54	9	
of HCV infection among people who	Female (n.%)	83 (22)	O	7

use drugs (PWUD) exceeds 66%. The medical system can be used as a lever to treat HCV as well as maintain long-term engagement in care to promote safer drug using behavior and provide more effective addiction interventions.

#### Methods

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retrospective cohort evaluation was conducted among active/recent HCV completed PWUD who treatment at our centre. All were

Drug ι	JSE	
	Opioid (n,%)	103 (27)
	Amphetamine (n,%)	77 (20)
	Cocaine (n,%)	95 (25)
OST	(n,%)	154 (40)
Homeless (n,%)		53 (14)
Psychiatric condition (n,%)		187 (49)

#### Results

386 active/recent PWUD who achieved HCV cure (SVR12) at our centre are included in this analysis. Key demographics include:

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Follow-up post SVR12

Hepatocellular Carcinoma Re-infection

Death

### Conclusion

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report on long-term follow-up We active/recent PWUD who have Of achieved HCV cure. Long-term engagement in care also appears to reduce the rate of HCV reinfection and opioid-related mortality. We observed a significant reduction in overdoserelated deaths in our cohort, speaking of the important role programs such as ours could play in the societal response to the opioid epidemic. HCC continues to occur at a rate comparable to that reported among non-PWUD cirrhotic patients. This underscores the need to design systems to maintain cirrhotic PWUD in follow-up for HCC screening after SVR12.

multidisciplinary enrolled in a program of care to address medical, social, psychological and addictionrelated needs. In this analysis, we report baseline demographics, HCV related complications, liver reinfection and mortality.



age 54 years, 22% female, mean 27%/20%/25% opioid/amphetamine/cocaine use, 40% opiate substitution therapy, 14% homeless, and 49% with a diagnosed psychiatric condition. Mean fibrosis score improved from 10.82 kPa at baseline to 8.21 kPa at SVR12. In median follow-up of 2.7 years, there have been 4 cases of hepatocellular carcinoma (HCC) (0.39 per 100 person-years), all among cirrhotics. This is somewhat lower compared to cirrhotic HCC rates of 3.7 per 100 py in the general HCV-infected population. There have been 7 cases of HCV reinfection (0.68 per 100 person-years) and 9 deaths post HCV treatment. One death was due to hepatocellular carcinoma and five to nonliver related complications. Three deaths

Acknowledgements



were due to a drug overdose (0.15 per 100 py follow-up from initial attendance at clinic). Considering the complexity and drug use behavior of the target population, as well as the rate of overdose-related deaths in the community, we would have expected 33 drug overdose deaths.

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