Treatment with direct acting antivirals leads to NHS increased uptake of Injecting Equipment Provision Greater Glasgow and Clyde (IEP), and low rates of reinfection: results from a **Scottish Cohort**

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INTRODUCTION

A cohort of 90 GT3 F2/3 treatment naïve patients, treated with 8 weeks of sofosbuvir/velpatasvir prior to October



2017, have been previously described.¹

- 55% had self reported or urine screen evidence of drug use pre treatment
- High Intention to treat (95.6%) and per protocol (100%) SVR rates were described
- One patient experienced re-infection with subsequent spontaneous clearance between end of treatment and **SVR 12**

AIMS

We sought to examine whether utilisation of injecting equipment provision (IEP) changed following treatment, and examine re-infection rates with longer follow up.

METHODS



There were increases in number dramatically, number of injecting

- The cohort was linked to the needle exchange database (NEO) using a standard identifier
- Information on numbers registered with NEO was recorded

• For the 3 months prior to treatment (PRE) and 3 months post completion of treatment (POST) anonymous data was obtained on number of patients accessing IEP, number of transactions and number of injecting kits and foil obtained

RESULTS

Table 1: Patient characteristics

		n=90	Intention to treat SVR 12: 86/90 (95.6%) Per protocol* SVR 12: 86/86 (100%)
	Male (%)	72 (80)	[*Excluding 2 patients who prematurely discontinued, 1 patient who died, and 1 patient with re-infection and subsequent spontaneous clearance]
	Mean age (SD)	45 (8.4)	Post SVR 12:
	Fibrosis stage		> 67 (77.9%) SVR12 patients had a further test ≥ 17 weeks post treatment
	F0/1 (LSM <7.0kPa)	2 (2.2)	(mean 27, range 17-45 weeks) ≻ 66/67 (98.5%) remained PCR negative
	F2 (LSM >6.9 & <9.5kPa)	60 (66.7)	
	F3 (LSM ≥ 9.5 and <12.5kPa)	28 (31.1)	> One patient experienced low level viraemia (13 iu/ml) with 2 subsequent
	Mean LSM (SD)	8.8 (±1.5)	negative samples, in keeping with reinfection with spontaneous clearance
	Mean Viral Load (SD)	5.7 log iu/ml (±0.9)	CONCLUSIONS High SVR rates achieved in a cohort with high levels of drug use
	Viral load > 6 million	6 (6.6%)	
	HIV co-infected	3 (3.3)	
	HBV co-infected	1 (1.1)	 The post treatment period demonstrated increased utilisation of IEP
	Incarcerated	5 (5.5)	 amongst the cohort, suggesting that engagement in treatment and care may be beneficial in promoting safer injecting practice To date, no confirmed cases of persistent re-infection have occurred
	On opioid replacement therapy (ORT)	82 (91.1%)	
, S	Acknowledgements: We wish to thank Ms Elaine C Supervisor for help in extracting data.	Cadzow, HCV Database	Reference: 1. Boyle A, et al. 8 weeks sofosbuvir/velpatasvir in genotype 3 patients with significant fibrosis: Highly effective amongst an OST cohort. J Hepatol 68, S20.

SVR 12: