Impact of rapid point-of-care hepatitis C testing in needle and syringe services for people who inject drugs: the RAPID EC Study

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Disclosures

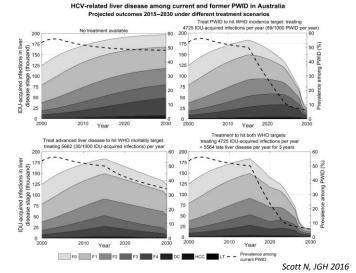
- Investigator- initiated research grants from Gilead Sciences, AbbVie, Merck
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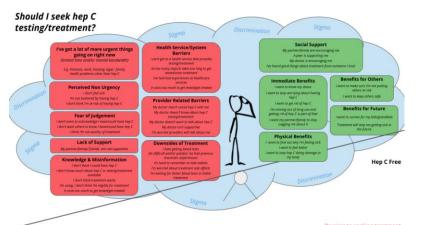
Achieving hepatitis C elimination

- People who inject drugs (PWID) are a key target population
- Need to increase number of PWID tested and treated for hepatitis C
 - · Reduce new infections
 - · Reduce morbidity and mortality





Barriers to the HCV cascade of care



- Stigma
- Health service barriers
- Multi-step process of current HCV care cascade

Gold et al. Tailoring Hepatitis C Health Promotion for People Who Inject Drugs. **POSTER #131**Madden et al PLoSOne 2018:13(11); Goutzamaniset al BMC Infect Dis 2018 18(1);
Chong et al Hepatitis C treatment –Peer insights on barriers and motivations to DAA treatment uptake.





Have hep C

Aim

- To assess the impact of a HCV POC testing on linkage to care and HCV treatment uptake
 - Three community clinics with NSPs



Methods - Rapid EC Pilot Study

- Three community clinics with busy NSPs in Melbourne
- Clients offered HCV POC antibody and RNA testing (visit 1)
 - NSP worker, community health worker or clinic nurse
 - Standard of care bloods also taken
 - · Education/counselling
- Follow up visit booked results, APRI, +/- Fibroscan (visit 2)
- Appt made with GP for HCV treatment



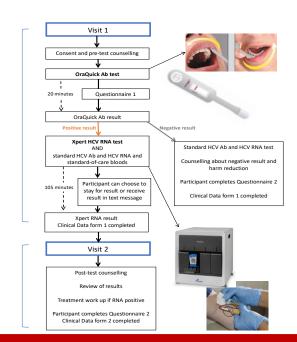
Methods

VISIT 1

+ Routine blood tests (laboratory)

VISIT 2

Assessment Linkage to care For treatment





Post Rapid EC study

- 6 months post pilot follow up clients to assess impact of pilot study
- Retrospective chart review
 - DAA prescription given
 - DAA started
 - DAA completed
 - SVR12 bloods taken
 - CURE
- Confirmed by PBS and MBS data



Results

• 174 participants consented to the study and had HCV POC testing

Table 1: Participant Characteristics (n=174)		
Median age (IQR)	41 (35 – 48)	
Male gender	118 (67%)	
Injecting drug use in last 6 months	154 (94%)	
Previous incarceration	125 (74%)	
Homeless or unstable accommodation	54 (31%)	
Any sharing of any injecting equipment in last 6 months	93 (53%)	
Previous hepatitis C test	167 (97%)	
Last hepatitis C test result PCR positive	73 (44%)	
Previous hepatitis C treatment	37 (22%)	



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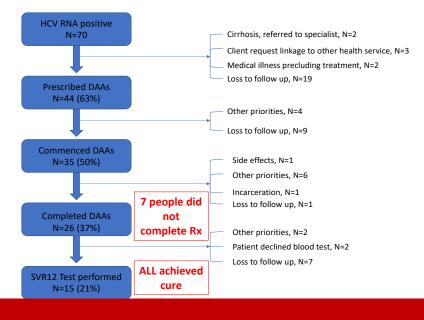


Testing outcomes

- 174 participants had HCV POC testing
- 150 (86%) HCV Ab positive
- 140 (93%) had a POC HCV RNA test
- 70 (40%) were HCV RNA positive

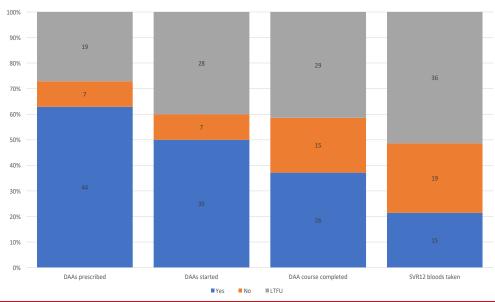


Flow through the HCV cascade of care at 6 months: Reasons lost to follow up





Flow through the HCV cascade of care at 6 months: people who are HCV RNA positive





Results: Associations with DAA uptake

- Treatment initiation highest at Clinics A (76%) and B (71%) compared with Clinic C (27%)
 - P<0.001
 - Clinic A and B: NSPs were embedded within community clinics
 - Clinic C: NSP co-located but separate to the community clinic
- Other associations with DAA uptake:
 - Higher education level (p=0.006)
 - Homelessness (p=0.042)
 - Current opiate substitution therapy (p=0.049)



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Table 2: Crude (unadjusted) associations with being prescribed HCV DAA treatment				
	Prescribed DAAs (n=44)	Not prescribed DAAs (n=26)	p-value*	
Site A B C	16(36%) 18 (40.9%) 10(22.7%)	5 (15.4%) 6 (23.1%) 15 (57.7%)	0.014	
Previous HCV test	42 (95.5%)	26/ 26(100%)	0.526	
Previously treated for HCV	6 (13.6%)	4 (15.5%)	0.560	
Age Category 20-39 years ≥40 years	12 (27.3%) 31 (70.4%)0.014	17 (65. 4%) 9 (34.7%)	0.038	
Gender Male Female	27 (61.4%) 16 (36.4%)	18 (69.2%) 8 (30.8%)	0.614	
ATSI	6/ 44 (13.6%)	8/ 26 (30.8%)	0.125	
Education level No schooling Primary Secondary and above	1 (2.3) 5 (11.6%) 37 (86.1%)	1 (3.9%) 11 (42.3%) 14 (53.9%)	0.006	
Employment Not working Working	41 (95.4%) 2 (4.7%)	25(96.2%) 1 (3.9%)	1.00	
Homeless	31 (72.1%)	12 (46.2%)	0.042	
Hazardous Aicohoi consumption	22/ 44 (50%)	10/ 26 (38.5%)	0.707	
Injecting drugs in past month	29/ 44 (65.9%)	22/ 26 (84.6%)	1.00	
Opiate substitution therapy Never Previous Current	6/ 44 (13.6%) 11/ 44 (25%) 26/ 44 (59.1%)	1/ 26 (3.9%) 14/ 26 (53.9%) 11/ 26 (29.7%)	0.049	
Incarceration	30/ 44 (68.2%)	21/ 26 (80.8%)	0.535	



Conclusions

- 6 months post HCV POC testing pilot over 2/3rds of PWID were linked to care and prescribed DAAs
- POC testing in NSPs and community clinics may be a novel tool to engage new clients in HCV testing and improve client retention in the care cascade
- Further studies are needed to determine how best to incorporate
 POC testing into existing models of care for people who inject drugs



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