Hepatitis C in the Emergency Department (ED): Screening and Linkage to Care for Hepatitis C Infection in the ED using Point-of-care Testing

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APASL, March 16, 2018, New Delhi









Disclosures

- This project was funded by the Research Endowment Fund, St. Vincent's Hospital Melbourne
- Advisory board member Gilead, Abbvie, Bristol-Myers Squibb (BMS), Merck, and Roche Diagnostics
- · Speaker Gilead, Merck, BMS, Abbvie
- · PI Gilead, Merck, Roche, BMS, Spring Bank
- Research / grant support Gilead, Merck, BMS, Abbvie

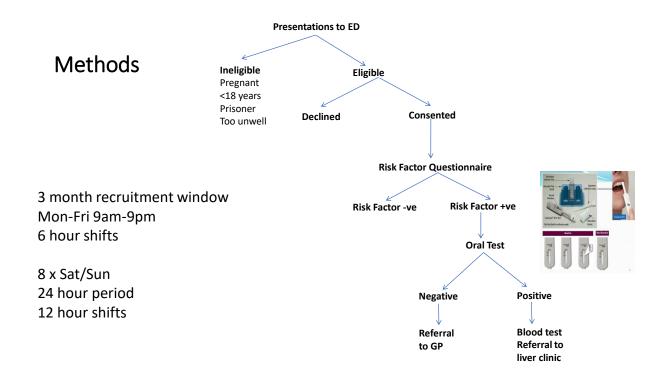
The key challenge for eliminating HCV in Australia is now engagement of marginalised individuals not currently in care

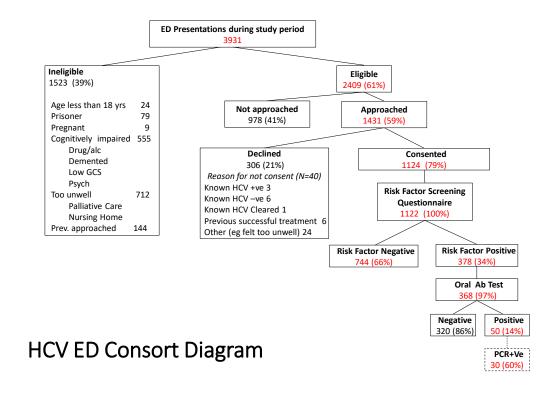
New models of care for HCV are needed



Aims

- To identify the <u>prevalence</u> and <u>risk factors</u> for hepatitis C in people presenting to a busy metropolitan ED
- To evaluate the efficacy of <u>linkage to outpatient liver clinic for</u>
 <u>DAA treatment</u> among people identified to be positive for anti-HCV in the ED





Risk factors for HCV (N=368)

	Anti-HCV +ve	Anti-HCV -ve	P-value
	(N=50)	(N=318)	
Male gender	72%	59%	0.06
Age (mean)	45 yrs	47 yrs	0.25
Country of birth – Australia vs. overseas	84%	67%	0.01
Indigenous	10%	2%	0.01
Preferred language - English	96%	98%	0.63
Homeless	24%	3%	0.00**
Previous test for HCV	88%	37%	0.00**
(test positive – recall)	(68%)	(1%)	0.00**
PWID	88%	14%	0.00**
Tattoos/piercings	46%	23%	0.00**
Prison	60%	16%	0.00**
Needle-stick injury	28%	30%	0.73
Blood product recipient pre-1990	6%	14%	0.14
Previous HIV test	12%	3%	0.006
Mother HCV +	4%	3%	0.67
Household contact HCV +	46%	21%	0.00**
Born overseas – high prevalence country	0%	3%	0.37
Lived overseas – high prevalence country > 2 yrs	0%	6%	0.09
Lived in a refugee camp	0%	1%	1.00
Invasive procedure high prevalence country	0%	1%	1.00

*p<0.005

Risk factors among anti-HCV +ve (N=50)

All had one of the following 3 Risk Factors:

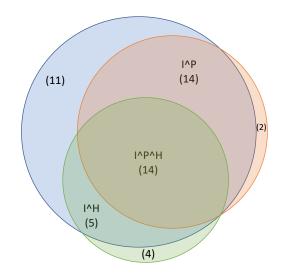
I PWID (N=44)

P Prison (N=30)

■ H Household contact HCV +ve (N = 23)

Additional Risk Factors:

Tattoos/Piercings (N=23)
Needle-stick injury (N=14)
Previous HIV test (N=8)
Blood product pre-1990 (N=3)
Mother HCV+ (N=2)
Born / lived / invasive procedure in a high prevalence country (N=0)



Risk factors among anti-HCV +ve (N=50)

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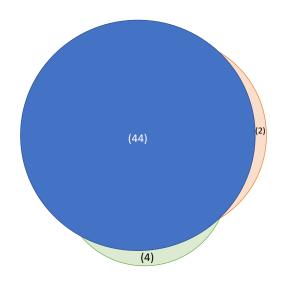
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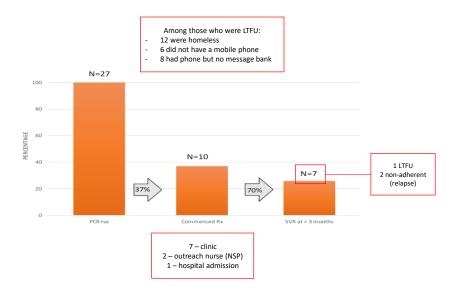
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Born / lived / invasive procedure in a high prevalence country (N=0)



Cascade of Care – HCV RNA positive subjects (n=27)



Conclusions

- ED visits are an opportunity to screen for HCV (anti-HCV)
 - 34% reported a risk factor for HCV
 - 14% anti-HCV +
 - 8% reported risk factor = IDU
 - 51% anti-HCV +
 - 4%* anti-HCV positive (consented participants)
- · A single screening question identified most anti-HCV positive participants
 - "Have you ever injected drugs?"
 - 8% of those screened
 - detected 90% of total anti-HCV + participants
 - Suitable as a triage question for screening in the ED
- · Linkage to the hospital clinic and treatment was challenging
 - · Novel models of care are needed; many participants were homeless

