

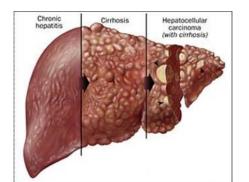
Overview

- Background
- Hepatitis C treatment in prisons
 - Nurse-led model of care (NLMC)
 - Scoping project
- Surveillance and Treatment of Prisoners with hepatitis C (SToP-C)



Background

- 80 million chronically infected with HCV globally
- High rates amongst PWID including prisoners
- Growing burden of disease
- Prevention challenging
- Prison = incarceration / prison ≠health care
- Predominantly short stay
- Frequent movements
- NSW: 11,000 inmates; 25,000 annually
- 93% male; 19% Indigenous
- Poor mental health; ~30% chronic HCV









HCV prevention in NSW prisons

No preventative vaccine



Hepatitis C Incidence and Transmission Study in prisons (HITS-p)

- 49% reported injecting drug use in follow-up
- 31% reported sharing apparatus
- HCV incidence 14% per annum
- No apparent protection from 'always' bleach e and cleansing or OST
 syringe programs

Luciani F. et al. Addiction 2014



Nurse-led model of care (NLMC)

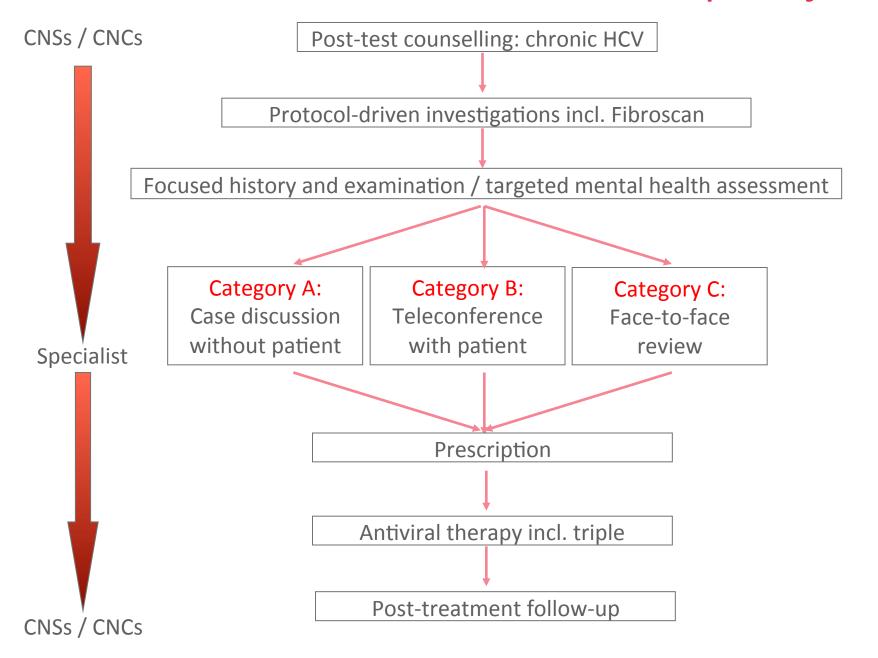
Goal: Increase HCV treatment rates in NSW prisons

Boonwaat et al Med J Aust 2010; 192 (9): 496-500

- NLMC pilot: (2009-2010)
 - Skills-based training of Clinical Nurse Consultants (CNCs)
 - Protocol driven nurse assessment and triage
 - Specialist reviews via telemedicine
 - Three centres Lithgow, Goulburn, Long Bay
 - Qualitative and quantitative evaluation
- Safe, efficient, acceptable

Lloyd A et al *Clin Infect Dis* 2013 Apr;56(8):1078-84

NLMC roll-out - NHMRC Partnership Project





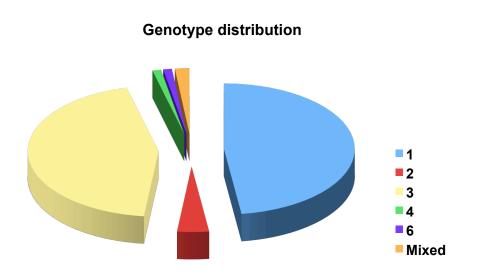
Triage decision

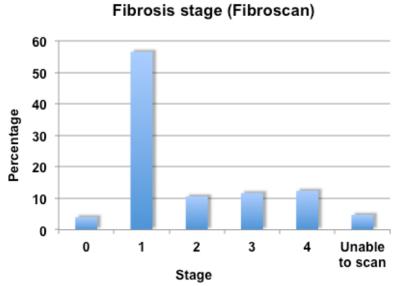
Category	Risk of medical or psychiatric complications on treatment	Motivation and psychosocial issues	Additional considerations	Action
A	Low risk, as there are no apparent medical or psychiatric conditions on history or current evaluation	Well-motivated and no psycho-social obstacles to successful completion of treatment and follow-up.	Stable circumstances in the correctional centre; good personal skills and social support structures.	Work up as per protocol and present to specialist (without the patient) for consideration for treatment.
В	Generally low risk of adverse events on treatment, but there are medical or psychiatric comorbidities evident, such as a history of psychosis or possible auto-immune disease.	Well-motivated, but some issues requiring additional support and surveillance, such as ongoing injecting drug use or mental health concerns.	Generally stable circumstances in the correctional centre, but other concerns such as limited personal skills or social support structures.	Provide care plan addressing the individual's issues of concern, and arrange telephone consultation with specialist and patient.
С	Significant risk of serious adverse events on treatment, as there are pre-existing medical and/or psychiatric co-morbidities which are likely to impact upon antiviral treatment, such as advanced liver disease, HIV-co-infection, or current major depression.	Motivated, but has psycho-social issues, which are likely to impact upon treatment, such as active injecting drug use or a risk of deliberate self-harm.	To consider treatment: stable circumstances in the correctional centre, reasonable personal skills and social support structures required.	Arrange face-to-face consult with specialist physician. Additional investigations (e.g. exercise stress test) and specialist consultations (e.g. psychiatrist) likely to be required.

Slides removed - until publication



Patient characteristics

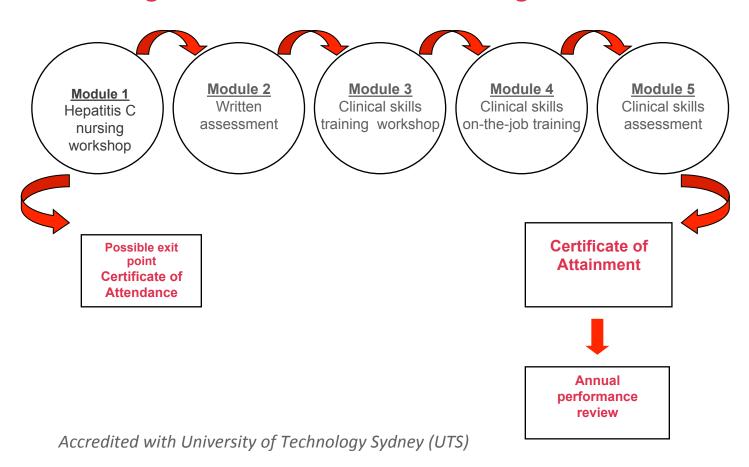






CNC / CNS hepatitis training program

Knowledge and skills-based training



C



Scoping project

Prisoners in Australia, 30/6/2013

	Total Prisoners	Median age (years)	ATSI (%)	Median sentence length (years)	Remand (% of prisoners)	Remand (median time, months)	Prior adult imprison- ment (%)	Current strategy HCV services
NSW	9,897	34.2	23	3.6	28	3.3	55	/
VIC	5,340	35.3	7	3.3	18	2.7	51	1
QLD	6,076	32.9	31	3.0	22	3.5	65	~
SA	2,266	35.9	22	4.5	34	2.3	51	×
WA	4,924	33.3	40	2.5	20	2.4	62	*
TAS	483	32.7	15	2.0	24	1.5	65	×
NT	1,436	32.6	86	1.3	25	1.2	71	×
ACT	353	31.2	18	2.8	26	1.4	73	~



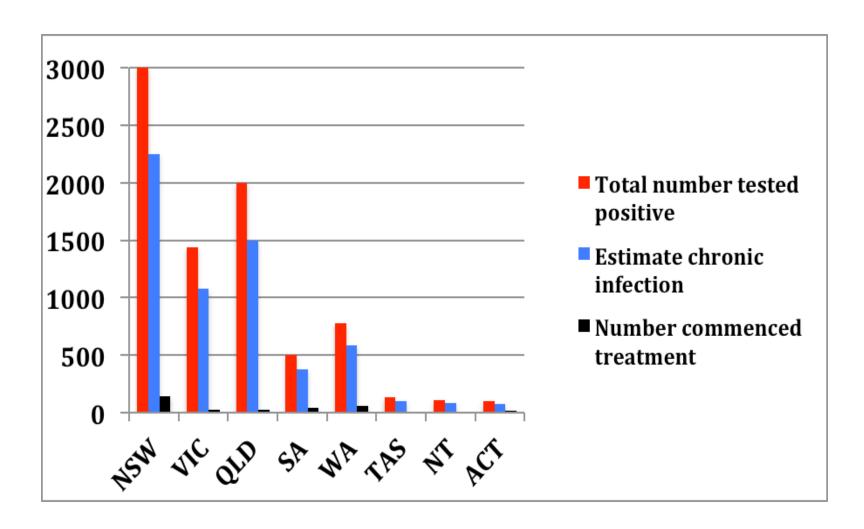
Scoping project

Prisons and health care personnel

	Total number of prisons	with		Specialist physician - hospital based		General nurse		Psychiatrist	Psychologist	Mental health nurse	D&A counsellor
NSW	31	31	/	/	1	/	/		/	/	/
VIC	14	3	/	/	1	/	/	/	×	/	/
QLD	11	8	/	/	1	/	/		×	/	x
SA	8	8	х	/	1	/	/		×	/	x
WA	16	9	×	/	1	/	/	×	<	/	/
TAS	7	7	/	/	×	/	х	×	х	×	x
NT	5	3	×	/	1	/	/	×	х	×	/
ACT	2	2	/	/	1	/	/	1	×	×	х

Mina M. et al. International Journal of Prisoner Health 2015 (in press)

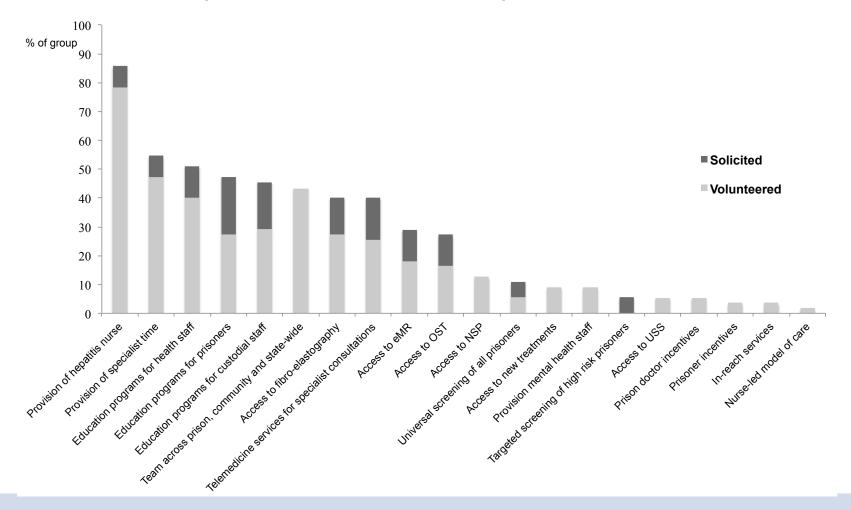
HCV testing & treatment in prisons





Scoping project

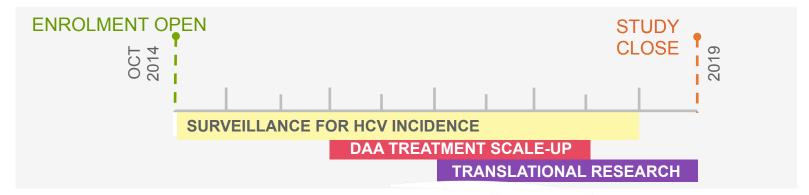
How could hepatitis services be improved



Goals

- To evaluate the impact of rapid scale-up of DAA treatment on incidence and prevalence of HCV infection in the prison setting
- To develop a translational framework for subsequent establishment of treatment-as-prevention programs in the prison sector

Study design



Primary end-point:

Reduction in HCV incidence in cohort across 4 SToP-C prisons

Additional aims:

Mathematical modelling

- Treatment sample size and epidemiological impact Cost-effectiveness and budget impact
- Is DAA therapy in prisons good value for money and can we afford it? Qualitative evaluation
- Patient & provider attitudes & barriers towards DAA therapy in prisons Implementation toolkit
- How can DAA therapy be scaled up in prisons across NSW and nationally?

SToP-C network

Goulburn Correctional Centre

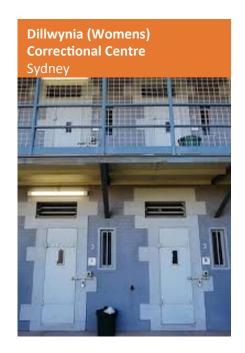
Goulburn



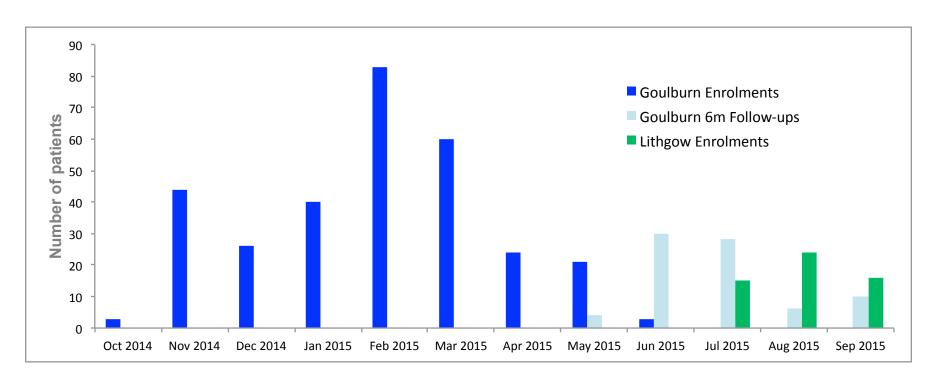


Outer Metropolitan Multipurpose Correctional Centre Sydney





Current status - surveillance phase (at 10 Sep 2015)



TOTAL	359	78
Lithgow Correctional Centre	55	0
Goulburn Correctional Centre	304	78

Treatment phase - 2016

- All prisoners with HCV infection eligible
- 12-week directly acting antiviral (DAA) therapy (sofosbuvir/velpatasvir)
- One fixed-dose tablet once daily
- >90% cure rates for Gt1-6
- Minimal side-effects
- Monitor re-infection rates and re-treat

Education and promotion

Prison staff (custodial & health) information sessions





Project partners, stakeholders, funders



















