Guiding the sector – Clinical support tools to achieve hepatitis C elimination in New South Wales



Authors: Jennings K¹, Stevens A¹, Bourne C¹, Dang H¹, Read P², Prain B¹.

¹ Hepatitis Programs and Policy Unit, Centre for Population Health, NSW Health ² Kirketon Road Centre, South Eastern Sydney Local Health District

Introduction

The NSW Ministry of Health (Ministry) is dedicated to eliminating hepatitis C as a public health concern by 2028. Progress towards elimination is monitored under the NSW Hepatitis C Strategy (2022 – 2025).

NSW observed large increases in hepatitis C treatment uptake in 2016, however the number of treatments has steadily declined since 2017. To reverse this trend, the Ministry developed a range of clinical support tools to increase testing and treatment across key settings listed in the NSW Hepatitis C Strategy (2022–2025).

Approach

The Ministry developed four clinical support tools in collaboration with stakeholders from key services including drug and alcohol, prisons, mental health and needle and syringe programs. The clinical support tools are outlined below:

- Hepatitis C models of care in key NSW settings: developed in partnership with Local Health Districts to outline models of care to increase testing and treatment in key settings including homelessness services, Needle and Syringe Programs, Alcohol and Other Drug and Mental Health. Successful initiatives included:
 - nurse outreach models using point of care testing
 - same visit treatment initiation
 - testing blitzes at community correction sites and homelessness services.
- Enablers for hepatitis C treatment uptake in NSW: evidence-based strategies to support priority populations treatment initiation and completion. Examples include:
 - incentives
 - medication collection support
 - peer workers to support patients through their care and treatment journey.
- NSW Hepatitis C testing framework: summarising
 - test type (venepuncture, Dried Blood Spot or Point of Care)
 - setting type
 - time to treatment initiation
 - risk of loss to follow-up
 - estimated cost.

See image 1 for further information.

Image 1: NSW Hepatitis C testing framework snapshot

	Increasing time to treatment initiation								
	Point of Care F	NA (GeneXpert)	Venepuncture		Dried Blood Spot RNA				
	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6			
Visit 1	Point of care (POC) Ab +/- POC RNA Treatment	POC RNA +/- Treatment	POC Ab +/- Venepuncture	Ab +/- RNA Venepuncture	POC Ab +/- DBS RNA	DBS RNA			
Visit 2			Treatment	Treatment	RNA venepuncture	RNA venepuncture			
Visit 3					Treatment	Treatment			
Cost per Rx initiation	\$1,169	\$1,866	TBC	\$1,571	\$1,514	\$2,416			
Pros	 Currently no additional cost to services Treatment at the point of care Cost effective when using reflex Ab Client acceptability Reduced loss to follow up (LTFU) 		 Utilises existing resources MBS item for venepuncture 		 Portable/ no clinical space required Low tech/skill MBS item for venepuncture Client acceptability 				
Cons/ Dependencies	Need a POC machineResearch	e (limited mobility)	Clinical spaceResearchPossible LTFU	Clinical spacePossible LTFU	 Research Confirmatory venepuncture required Possible loss to follow up from extra steps 				
Funding	Research – NHMRC funded until 2024		LHD funded		Research - NSW Health funded until 2024				
Examples of possible settings	 AOD Primary NSP Outreach bus Testing blitz e.g. der service Aboriginal Communi Pharmacies 	ital clinic, homelessness ty Health	 AOD Primary NSP Outreach bus Sexual Health Clinic 	 Mental health inpatient Resi-rehab GP Antenatal Emergency Dep Sexual Health Clinic 	 Clozapine clinic Mental health inpatient Resi-rehab OTP clinic Dental Primary and Secondary NSP Homelessness regular drop in Community corrections Aboriginal Community Health Pharmacies 				

 Hepatitis C testing and care in NSW Alcohol and Other Drug services: specific guidance to all NSW Alcohol and Other Drug services on the appropriate testing and care of people at risk of hepatitis C.
 The document identifies opportunities to enhance hepatitis C care, boost workforce capabilities and leverage new and existing partnerships.
 See image 2 for further information.

Image 2: NSW Hepatitis C testing and care in Alcohol and Other Drug services snapshot

Service Capability				Role of service in BBV testing and treatment				Example	
Service Type		Workforce	Pathology	Testing	Delivery of results	Treatment	Ongoing assessment		kample Service
A	•	Allied health and peer workers Other workforce (not venepuncture trained)	 No on-site pathology collection No Point of Care Testing (POCT) 	Dried Blood Spot (DBS) Testing	 According to site initiation plan- NSW Sexual Health Infolink (SHIL) or service If HCV+, refer to another service for HCV work up bloods Check attendance to referred service 	According to local referral pathway	Offer testing every 12 months if client is at risk	co P N S	OD ounselling, rimary eedle & yringe rogram
В	•	As for Service Type A Part-time nurse, nurse practitioner or doctor No arrangement with remote prescriber	On-site pathology collection	 DBS Testing And Venepuncture for HCV (HCV Ab +/-RNA), LFT 	 According to site initiation plan - NSW Sexual Health Infolink (SHIL) or service If HCV+, complete venepuncture confirmation (HCV Ab +/- RNA and LFT) 	Prescribe treatment or refer to appropriate service	Offer testing every 12 months if client at risk	•	

Outcome

The clinical support tools were endorsed at multiple hepatitis C governance committees including the Hepatitis C Strategy Implementation Committee and the Hepatitis C Strategic Clinical Action Group.

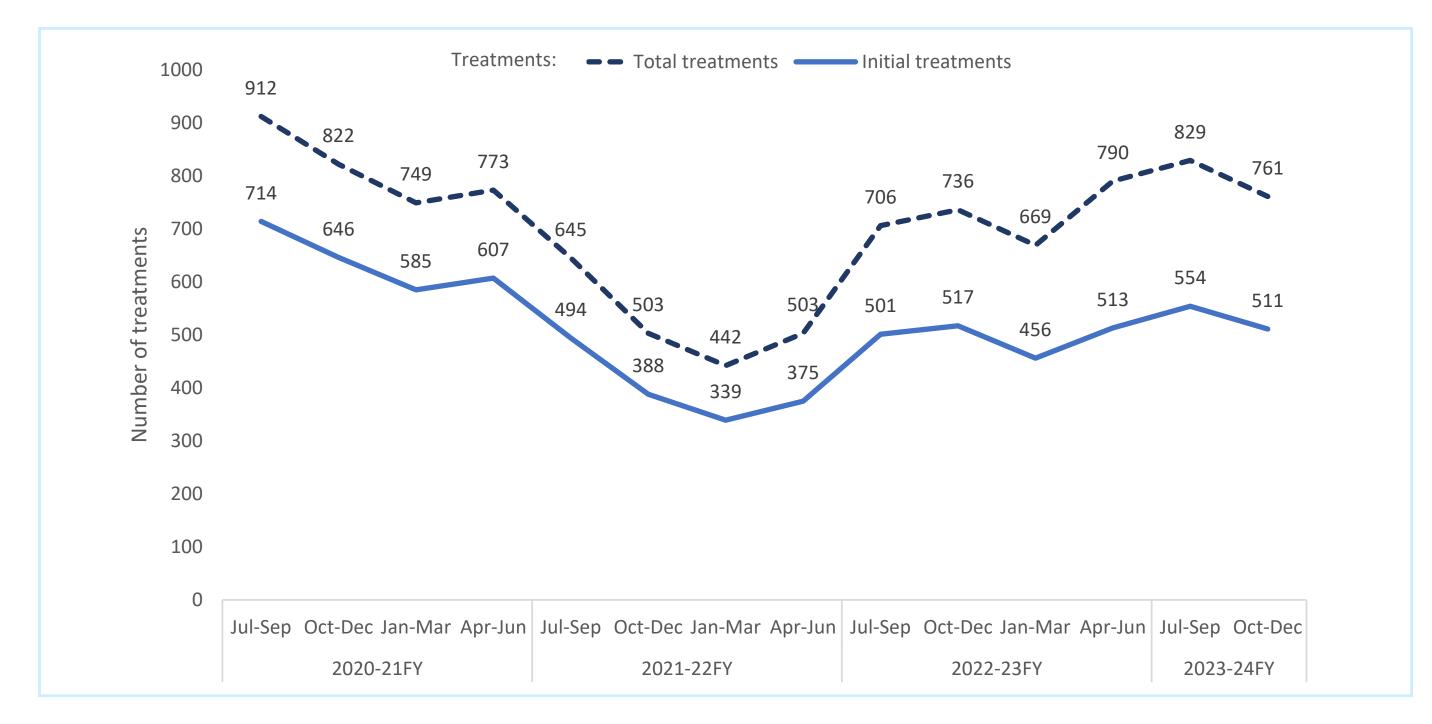
The tools were then distributed to Local Health Districts and Non-Government Organisations for implementation in all key services including drug and alcohol services, needle and syringe programs and Aboriginal community health services.

Conclusion

Clear clinical guidance and support tools for Local Health Districts and Non-Government Organisations are key elements for hepatitis C elimination in NSW.

The clinical tools support the expansion of testing, like Dried Blood Spot and Point of Care, and treatment initiatives. In 2023 testing increased by 34% and treatment initiations increased by 17% compared to 2022 (figure 1). NSW has treated 59% of people (36,605) estimated to be living with hepatitis C, saving an estimated \$103,748,045 in avoidable health costs.

Figure 1: Number of people prescribed hepatitis C treatments in NSW by quarter between July 2020 and December 2023



Next steps

The Ministry in partnership with Local Health Districts and Non-Government Organisations will continue to emphasis the use of the clinical support tools to guide hepatitis C testing and treatment across key settings, with a focus on linkage to care for priority populations including in General Practice settings and through the remote prescribing program.