



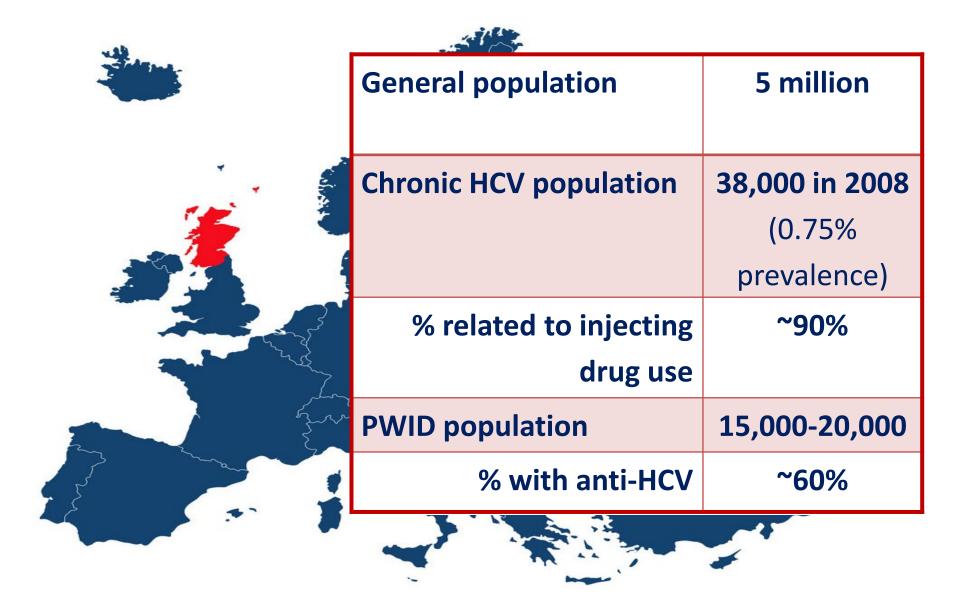
University for the Common Good

Progress on Hepatitis C elimination in Scotland

Sharon Hutchinson

(Glasgow Caledonian University/Health Protection Scotland)

Scotland and Hepatitis C: context



Scottish Government Policy in the pre-DAA era

2008-14 Hepatitis C Action Plan

- Aim : Reduce HCV transmission/ morbidity/ mortality
- Additional funding £15 million/yr
 - Optimise HCV Services (covering prevention, diagnosis, treatment)
 - Coordination
 - Monitoring and evaluation
- Performance managed
 - HCV Treatment Targets
- Multi-disciplinary approach
 - Facilitated through local and national networks

Monitoring Progress: national surveillance systems

Prevention : Surveys of PWID (biennial)

Diagnosis : Laboratory surveillance including

HCV Test and Diagnosis databases

Treatment : Clinical Databases at HCV treatment centres

Disease : Record-linkage of HCV databases
with hospital/cancer/deaths
registries

Lessons learnt in the pre-DAA era

(Hutchinson et al. IJDP 2015)

Prevention

: Improvements in harm reduction services

(~70% recent OST and ~70% adequate NSP coverage)

: But prevalence/incidence of HCV remains high

Diagnosis

: DBS testing in drug treatment settings effective

(~50% increase in proportion of infected diagnosed)

: <u>But</u> large minority HCV infected remain undiagnosed

Treatment

: Increase in clinical (specialist nurse) capacity

(with 2.5-fold rise in annual number treated)

: <u>But</u> number treated within specialist care reached a

ceiling in the interferon era

Disease

: Numbers developing HCV-related liver failure/cancer

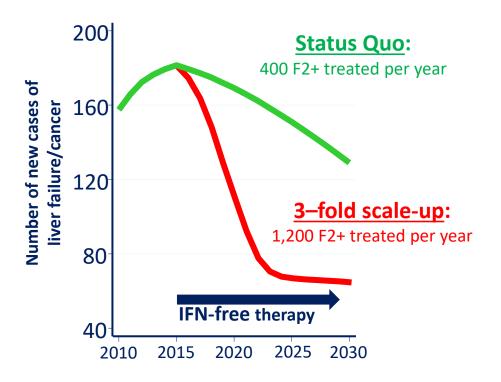
continued to rise

Modelling work to inform scale-up of DAAs

(Innes et al. Gut, 2015)

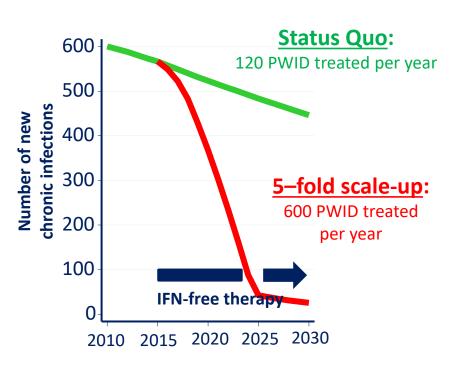
A) Prevent severe liver disease

Modelled incidence of HCV-related liver failure/cancer in Scotland with different treatment scale-up of F2+



B) Prevent transmission

Modelled incidence of new HCV infection in Scotland with different treatment scale-up of PWID



Scottish Government Policy in the DAA era (2015-2018)





The Scottish Government

Hepatitis C Treatment & Therapies

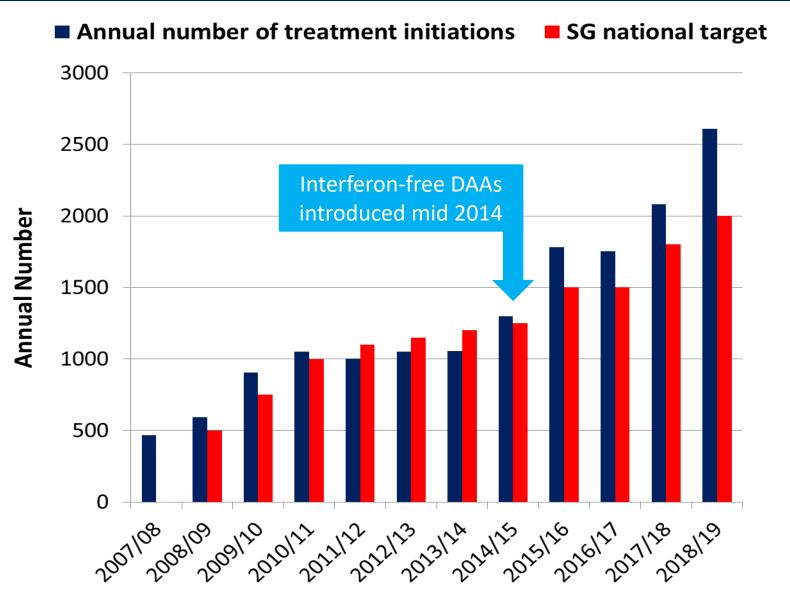
Group Report

Revised December 2015

Treatment Strategy

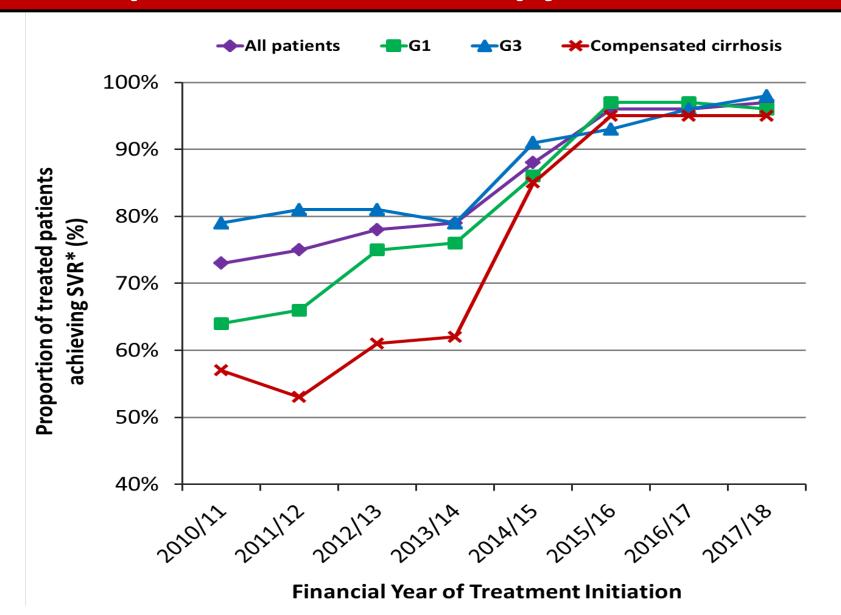
- Disease Target: 75% ↓ in liver failure by 2020
- Treatment Targets: 50% 个 modest scale-up initially
- Prioritisation based on disease stage (<u>lifted in 2018</u>)
- Aim to deliver therapy for most infected people in community settings (includes prisons)

Scale-up of HCV therapy in Scotland



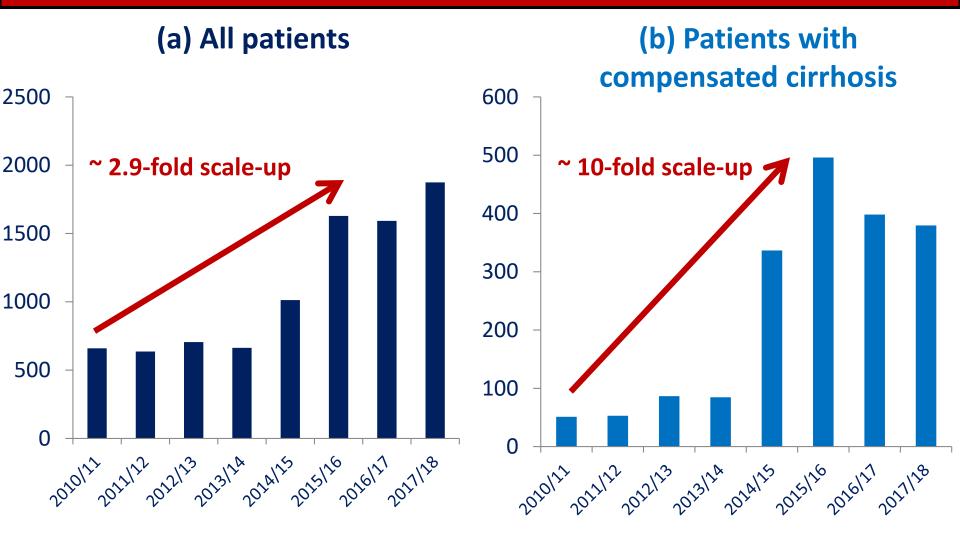
Financial Year

Response to HCV therapy in Scotland



^{*} Among those with SVR (sustained viral response) status known, relating to 74% of all treated patients

Estimated scale-up of the number of patients achieving SVR* in Scotland

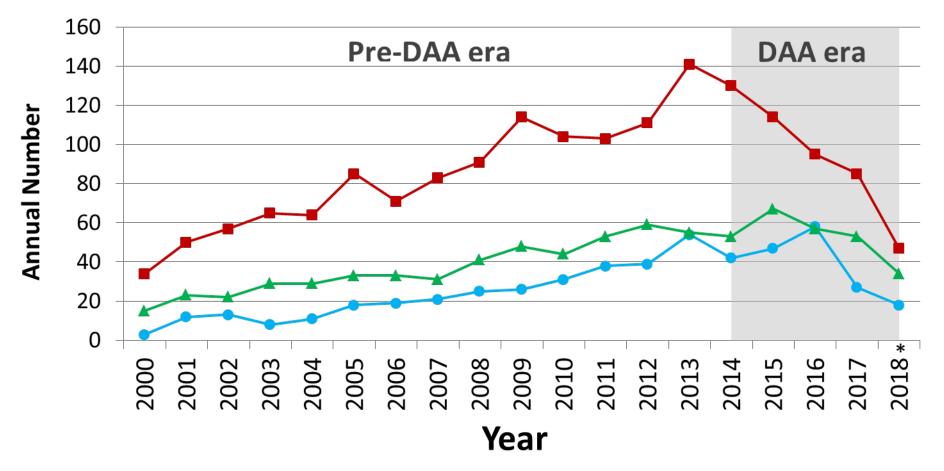


Financial year of treatment initiation

^{*} Assumed equivalent SVR rate for those who have completed therapy but without SVR status as for those with SVR status

Monitoring impact of DAAs on presentations of decompensated cirrhosis, HCC and mortality among persons with chronic HCV infection** in Scotland

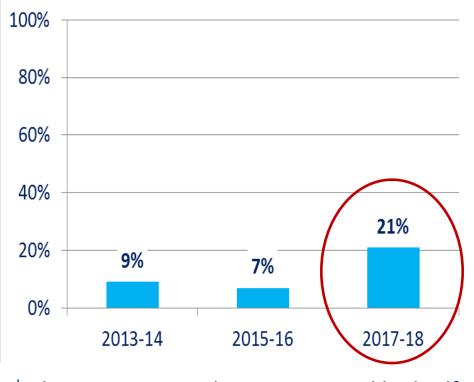
→HCC presentation →DC presentation →Death with mention of DC and/or HCC



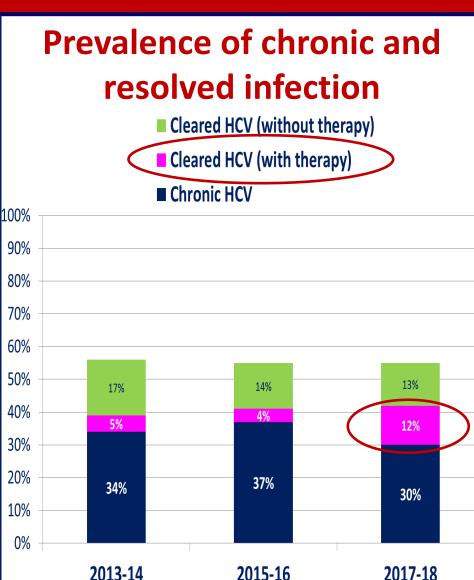
^{*} Provisional estimates for 2018 presented; ** Chronic HCV at time of presentation

Scale-up and impact of HCV therapy among PWID in Scotland

Started HCV therapy in the last year (among PWID eligible for treatment in the last year^{‡)}



[‡] Ab+ve PCR+ve or Ab+ve PCR-ve and had selfreported initiated treatment in the last year



Rapid major scale-up of DAAs among PWID: a feasibility study

NHS Tayside 'elimination' plan*

- Rapid & major scale-up of DAAs among PWID (500 over 2 years)
- Aim to reduce chronic HCV prevalence among PWID from 30% to <10%
- Testing (by services) & treatment (by nurses & pharmacists) in multiple community settings

NHS Tayside

Popln: 400,000

PWID: 2,700

(800 with chronic HCV)



*Evaluation supported by funding from NIHR

Reduction in chronic HCV prevalence associated with treatment among PWID, by region in Scotland

- Cleared HCV (Ab+ PCR-) (no evidence of treatment)
- Cleared HCV (Ab+ PCR-) (evidence of treatment)
- Chronic HCV (Ab+ PCR+)



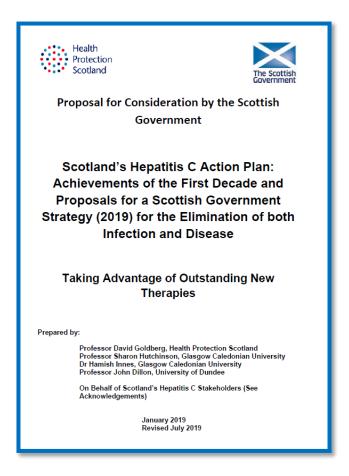
% reduction in chronic HCV between 2013-14 & 2017-18:

38%

14%

4%

Scottish Government HCV Elimination Strategy (2019-2024)





news.gov.scot/news/eliminating-hepatitis-c

Scottish Government HCV Elimination Strategy (2019-2024)

 Elimination of infection and disease as a serious public health concern

New targets (by 2024)

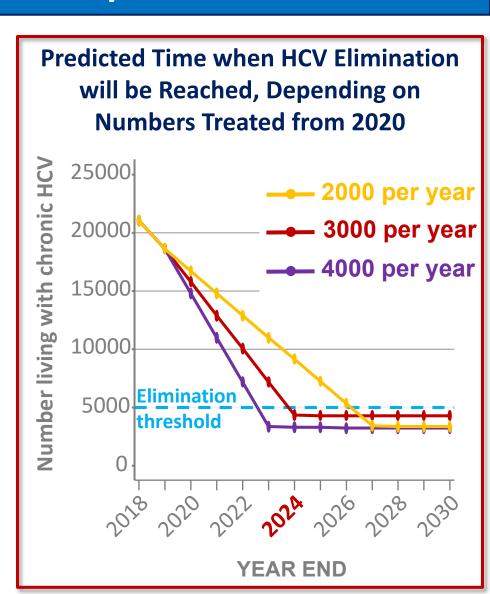
Disease: Less than 10 deaths/

liver failure/liver

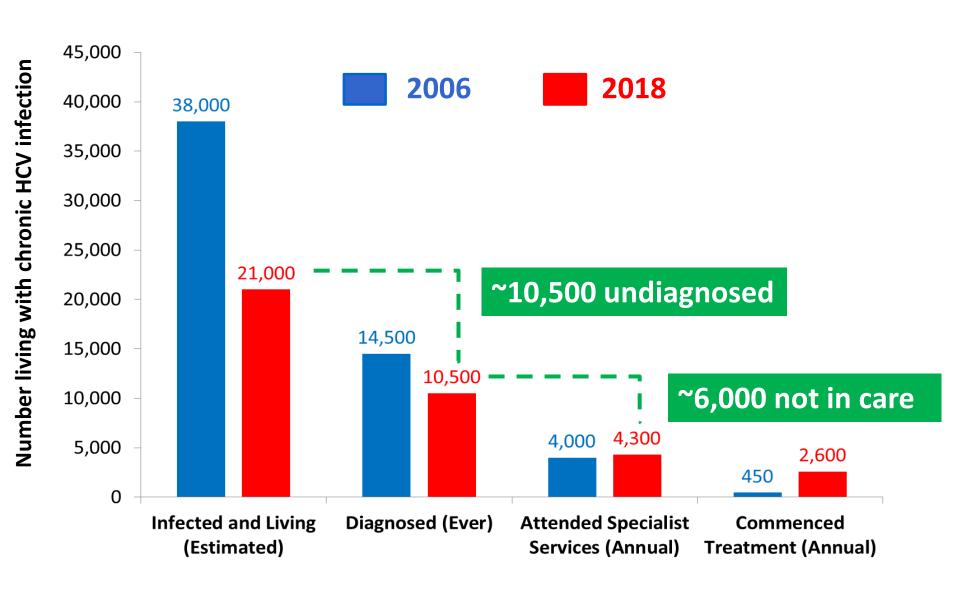
cancer cases

Infection: Less than 5,000

infected (1 in 1,000)



Elimination challenges



HCV Case Finding and Access to Care



Recommendations on HCV Case Finding and Access to Care

Report of National Short Life Working Group

Chaired by Prof John Dillon and Dr Esther Aspinall

Nov 2018

18 recommendations

- Opt-out testing for high risk groups (e.g. prisons, drug/harm reduction services, homeless services)
- Local MCNs to support GPs in testing initiatives
- Pilots of **POC testing** and other novel testing initiatives
- Local awareness raising campaigns led by Public Health
- Training for primary and secondary care HCWs
- Treatment provided at the testing venue, where possible
- Regular look-back re-engagement exercises
- Feasibility study to identify people at risk from OST/drug addiction administrative records
- Pilot of birth cohort screening in high deprivation areas

In summary

- Robust evidence informed the Scottish strategy AND continual monitoring and evaluation informs updates to that strategy
- □ Government targets on treatment numbers both at national and local level proven important in scaling up efforts
- □ Compelling evidence of population impact of DAAs in averting liver morbidity/mortality, and emerging evidence on *HCV treatment as prevention*
- Monitoring data critical to help identify issues in the scale-up of services and drive innovation to achieve elimination



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