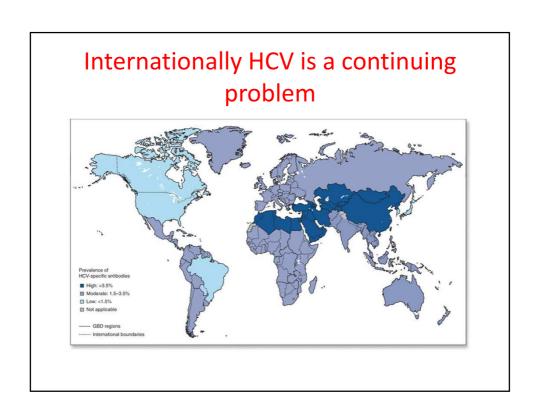
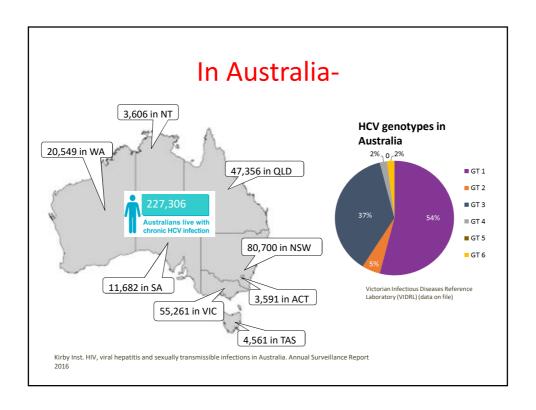
# Hepatitis C

Where we are at in the Goulburn Valley!!







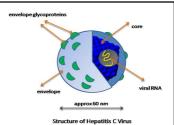
# Hepatitis C in Australia

- ~227,306 people were living with hepatitis C at the end of 2015
  - -29,070 had severe fibrosis
  - -17,149 had hepatitis C-related cirrhosis
  - -818 deaths were attributable to hepatitis C
- 55,261 Victorians living with hepatitis C

#### **HCV Can Be Cured!!!**

Unlike HIV and HBV infection, HCV infection is a curable disease

Being an RNA virus, HCV does not archive its genome



#### Cure

- = Undetectable HCV RNA at 12 weeks after completion of antiviral therapy for chronic HCV infection
- = Sustained Viral Response (SVR 12

Cure means the virus is gone, but the liver disease may still present and need further investigation or ongoing surveillance Cure is durable

But cure does not provide immunity to re-infection

Aghemo A et al, J Hepatol 2012;57:1326-35; Ghany MG, et al. Hepatology. 2009;49(4):1335-1374; Hill A et al, AASLD

# New era of hepatitis C treatment

 1st March 2016, Australia publicly subsidised through the Pharmaceutical Benefits Scheme (PBS) curative Direct Acting Antiviral (DAA) regimens for all people with hepatitis C

No restrictions on stage of liver disease No restrictions on alcohol or drug use No restrictions on the number of times a person can be treated

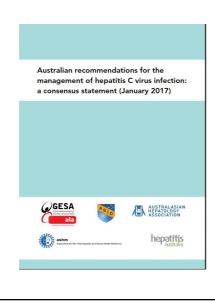
# Hepatitis C treatment in 2016 and beyond



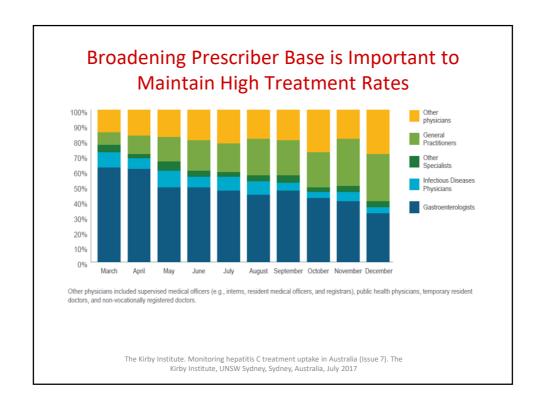
"..no matter what their condition or how they contracted it..."

#### Annual HCV Treatment Uptake, 1997-2016 IFN-based First generation DAA available (in combination with PegIFN+RBV) IFN+RBV combination available PegIFN+RBV combination available The Kirby Institute. Monitoring hepatitis C treatment uptake in Australia (Issue 7). The Kirby Institute, UNSW Sydney, Sydney, Australia, July 2017

### Australian consensus recommendations (2017)



- www.gesa.org.au
- Best practice guidelines for the management of hepatitis C
- Focuses on primary care management of hepatitis C



#### What tests to order

In comments or notes section: ? hepatitis C infection.

#### Lab tests ordered for hepatitis C evaluation:

- hepatitis C antibodies (HCV Ab)
- +/- hepatitis C RNA (HCV RNA)
- +/- hepatitis C quantitative RNA and genotype.

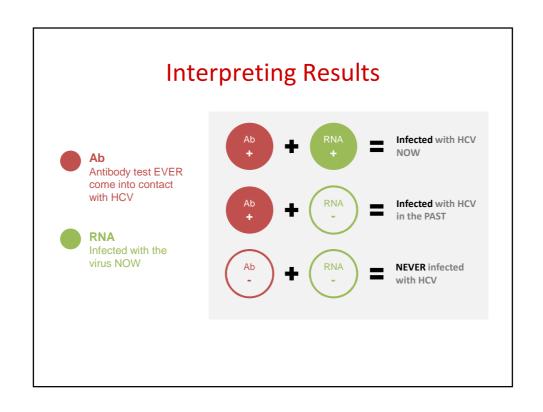
In addition required for DAA commencement: Hepatitis B surface antigen (HBsAg), hepatitis B core antibody (HBcAb), hepatitis B surface antibody (HBsAb), LFT, FBE, INR, eGFR, U&E, HIV serology, hepatitis A serology.

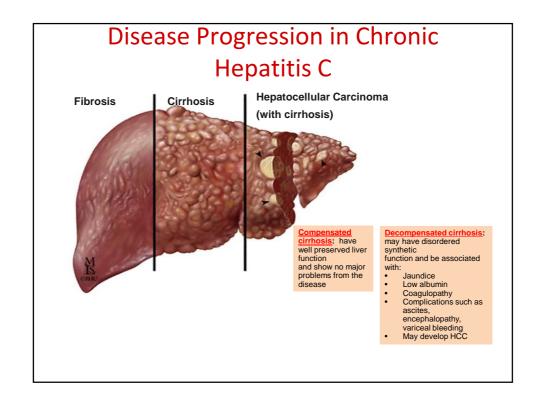
#### Who should we test?

#### Table 1. Populations to consider for a hepatitis C virus (HCV) screening test

- People who inject drugs or who have ever injected drugs
- People in custodial settings
- People with tattoos or body piercing
- People who received a blood transfusion or organ transplant before 1990
- Children born to HCV-infected mothers
- Sexual partners of an HCV-infected person (individuals at higher risk of sexual transmission include men who have sex with men and people with HCV-HIV coinfection)
- People infected with human immunodeficiency virus or hepatitis B virus
- People with evidence of liver disease (persistently elevated alanine aminotransferase level)
- People who have had a needle-stick injury
- Migrants from high-prevalence regions (Egypt, Pakistan, Mediterranean and Eastern Europe, Africa and Asia)

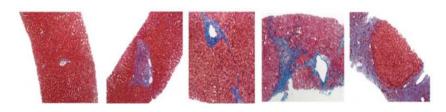
Hepatitis C Virus Infection Consensus Statement Working Group. Australian recommendations for the management of hepatitis C virus infection: a consensus statement (August 2017).

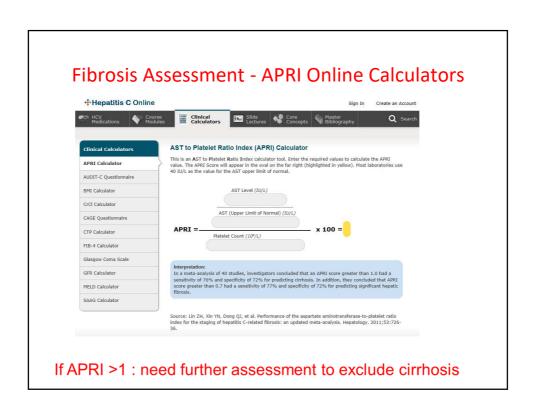




### Why it is Important to Diagnose Cirrhosis?

- Implications for future prognosis
- Determines urgency for treatment to prevent complications
- Determine treatment regimen and duration
- Counselling: liver cancer screening, variceal screening, vaccination for HBV/HAV, counselling about managing cofactors: HBV/HIV, alcohol, obesity





## **Drug Interactions**

List of prohibited drugs is relatively short

Varies depending on regimen chosen List of 'potential interaction' drugs is longer

Review all prescription and OTC meds, herbals/ supplements

Be alert for interactions with common drugs

Eg. Statin, proton pump inhibitor, birth control preparation

No herbs – esp. St John's Wort Ask about PRN usage of other drugs HEP Drug Interactions website www.hep-druginteractions.org



**HEP iChart app** App store | Google Play



#### Hepatitis C Drugs Available in Australia in 2017



#### **Prescribers**

The PBAC recommendation was updated on the 1st June 2017:

DAAs can be prescribed by any medical practitioner experienced in the treatment of chronic hepatitis C infection, or in consultation with a gastroenterologist, hepatologist or infectious diseases physician experienced in treating chronic hepatitis C infection Nurse practitioners are also approved to prescribe

#### How to Prescribe



- If confident, go ahead and prescribe using the GESA Guidelines to assist
- If seeking advice re treatment, can refer to GV Health using the GESA 'Remote Consultation Form' available on the GESA website. This will be reviewed by the next available Gastroenterologist and signed off with any appropriate advice
- If patient is referred for treatment and is deemed not cirrhotic based on the information provided by the referring GP, then patient will be seen asap by the NP and commenced on treatment
- If patient is cirrhotic and patient needs review and workup by the Gastroenterologist then the patient will be seen via the waiting list (6-12 months)

# Specialists Available in the Goulburn Valley

- Three visiting Specialist Gastroenterologists, minimum fortnightly to GV Health, all treating Hepatitis C, direct referrals to Specialist Consulting Suites.
- One Nurse Practitioner-Suzanne Wallis working alongside the Gastroenterologists fortnightly
- One visiting Infectious Diseases Physician, visiting monthly to Shepparton Medical Clinic, referrals can be sent to Shepparton Medical Clinic
- Two GP Clinics supported by the Hepatitis C Integrated Hepatitis C Nurse on a fortnightly basis, to establish and treat patients existing within those practices
- Several GPs already actively involved in the care of and treating Hepatitis C patients

Advice re this process is available by contacting the HCV Integrated Nurse

## Resources available to practitioners

Lots of information available for GPs in particular

- ASHM
- EC Eliminate Hepatitis C
- VHHITAL
- PHN
- Hepatitis Victoria
- GESA









