Hepatitis C

Dr. Shay Keating Medical Officer

This presentation was made in conjunction with the publication "Hepatitis C – A Guide for Drug Users and Their Families" which is available to download from www.addictionireland.ie or by calling The Drug Treatment Centre Board 01 6488600















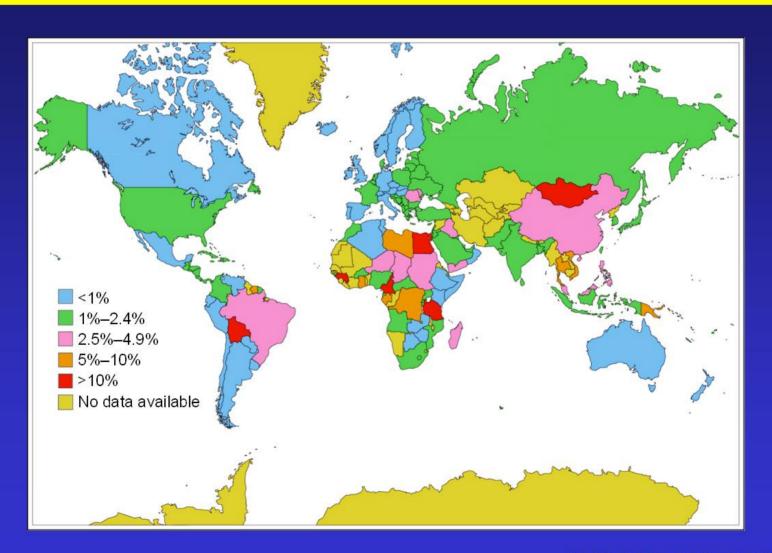
Hepatitis

- Inflammation of the liver
- This can be caused by:
 - Viruses a range of hepatitis viruses (A,B,C,D & E) & others
 - Drugs notably alcohol
 - Auto-immune disease
 - Unknown causes

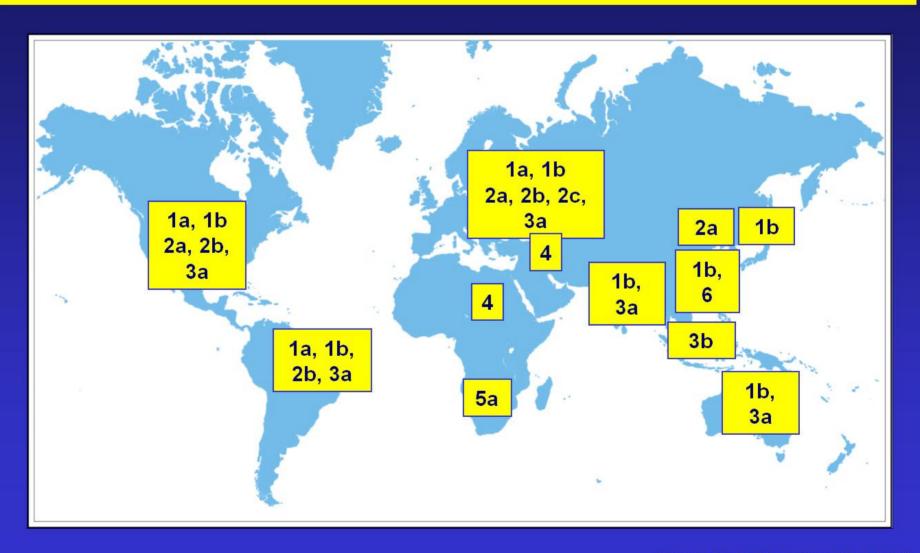
Background

- First identified in 1989
- WHO 170 million people infected
- 80% of IVDUs in the Dublin area (approximately 10,000)
- Without treatment, 20% will develop liver cirrhosis in 20years – 6% liver Ca.
- 6 genotypes world-wide

HCV Infection: Worldwide Prevalence



HCV Infection: Worldwide Genotype Distribution



The Hepatitis C virus-Transmission

- Injecting drug use the majority of new cases
- Snorting cocaine
- Mother to baby ~5%
- Sexual transmission <1%
- Needle stick injury ~3%
- Body piercing, tattooing, electrolysis & acupuncture (if contaminated equipment or supplies used)
- Previously blood transfusion & blood products

Factors Relating to Poor Outcomes

- Alcohol consumption
- Co-infection with HIV or Hepatitis B
- Age at which the infection was acquired
- Male gender
- Obesity

Tests for Hepatitis C

Blood Tests

- Anti-hepatitis C Virus Antibody Test
- Polymerase Chain Reaction (PCR) Test
- Liver Function Tests (LFTs / ALT)

Liver Biopsy

Role of Liver biopsy

Assess the severity of damage

 Evaluate possible concomitant disease process, eg. Alcoholic liver disease

Assess therapeutic intervention

Immunisation

No vaccine is available for Hepatitis C

Immunisation against hepatitis A and B should be actively promoted among drug users

Pre-Test Counseling

- Positive test result
- Social and financial implications
- The patient's understanding
- Supports available
- Treatment available

Hepatitis C Antibody Negative

Meaning of a negative result

- Ways of avoiding further exposure
- Further test if indicated

Immunise against hepatitis A and B

Management of Hepatitis C

- Optimise social support
- Refer to a specialist
- Minimise the risk of transmission to others
- Advise about alcohol
- Provide immunisation against hepatitis A and B & advise on testing for HIV & HBV

Combined Therapy for Hepatitis C

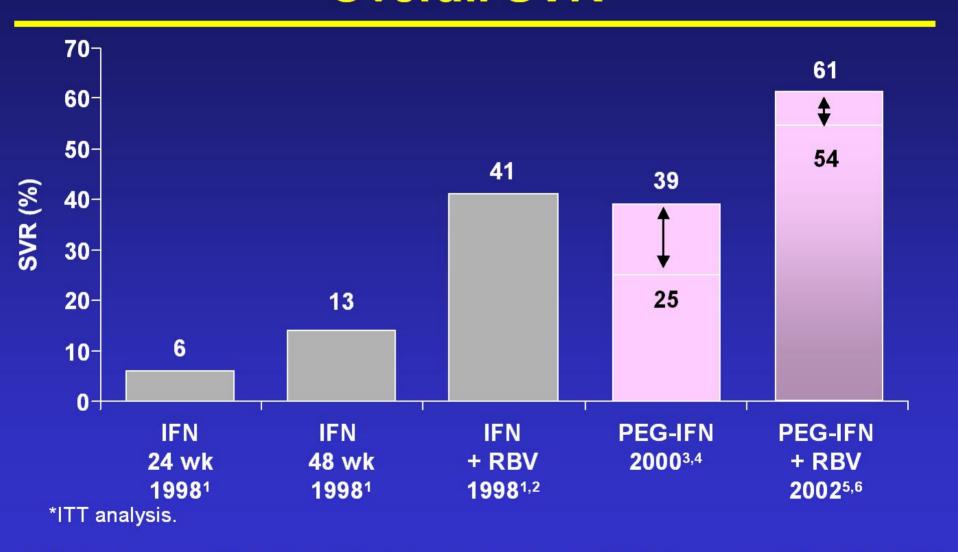
- Current guidance combination therapy of pegylated interferon alpha & ribavirin in appropriately selected patients
- S.C. pegylated interferon once a week, and ribavirin taken orally, for 24 or 48 weeks
- Biopsy genotype 1

Goals of Treatment

Viral clearance

- Slow or reverse the disease progression
- Reduce the risk of hepatocellular carcinoma
- Improve health related quality of life

Results of HCV Therapy: Overall SVR*



^{1.} McHutchison et al. N Engl J Med. 1998; 2. Poynard et al. Lancet. 1998; 3. Zeuzem et al. N Engl J Med. 2000; 4. Lindsay et al. Hepatology. 2001; 5. Manns et al. Lancet. 2001; 6. Hadziyannis. EASL 2002.

Side Effects of Interferon Treatment

- Flu-like symptoms
- Nausea
- Anorexia
- Diarrhoea
- Psychiatric symptoms depression/insomnia
- Alopecia
- Leucopoenia/thrombocytopoenia
- Thyroiditis

Side Effects of Ribavirin Treatment

- Haemolytic anaemia
- Teratogenicity
- Cough
- Rash and pruritis
- Insomnia
- Anorexia

Treating Hepatitis C Positive Drug Users

- Many too unstable
- Many DNA out-patient hospital appointments
- Adherence to treatment is often poor
- Retention in treatment can be poor
- Relapse into active addiction

On-site Hepatitis C Treatment at the DTCB

• Rationale: 'To treat the patients with hepatitis C in the same location in which they receive their methadone with a view to retaining the patients in treatment'

- Regular medical review
- Regular psychiatric review

On-site Hepatitis C Treatment 'Pilot Study'

- Pilot study of nine patients
- Directly observed therapy initiated at DTCB in liaison with Dr. Colm Bergin at St. James's hospital
- Regular psychiatric review by Dr. Jacinta O'Shea, registrar to Dr. Eamon Keenan

Pilot Study

Not to show that the treatment works

But

• A proof of concept – that patient retention in treatment can be improved if therapy is initiated in a specialist drug treatment setting with directly observed therapy and with appropriate medical and psychiatric support on site.

The Hepatitis C Treatment Team

- Medical Officer
 - Direct liaison with Dr. Colm Bergin
- Psychiatric Registrar
 - Under the guidance of Dr. Eamon Keenan
- Nurse
 - Ms. Anne Bolger, Hepatitis C Liaison Nurse, DTCB
- Counsellor
 - Mr. Alan Furlong. Senior Counsellor, DTCB

Pilot Study Findings

- 8 of 9 finished programme
- Efficacy is comparable to hospital based setting
- 5 of 9 haematological difficulties
- 5 of 9 significant depressive symptoms
- 3 of 9 relapsed briefly into active addiction

Conclusion: Key Messages for Drug Users

- Hepatitis C is a serious disease
- Stabilise and request treatment
- Do not start injecting
- If currently injecting then stop
- If unable to stop the reduce harm

Thank You Dr. Shay Keating













