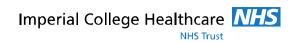


16th Annual Conference of the National HIV Nurses Association (NHIVNA)

Ricky Gellissen

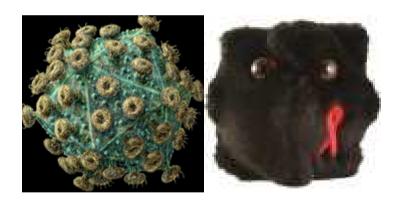
Imperial College Healthcare NHS Trust, London

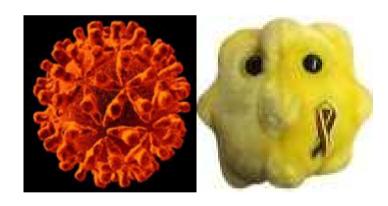
26-27 June 2014- City Hall, Cardiff



What can hepatitis learn from HIV?

Ricky Gellissen (ricky.gellissen@imperial.nhs.uk)
Imperial College Healthcare NHS Trust, London





H.I.V.

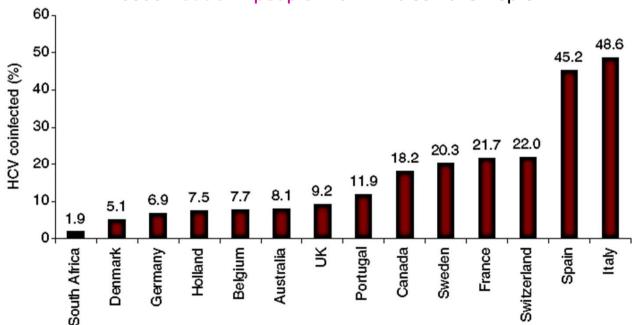
H.C.V.



Co-infection Is Common! 9M People Worldwide



About 1 out of 4 people with HIV also have Hep C.



Prevalence differs in countries

Alter MJ. J Hepatol 2006;44:S6-9. UNAIDS Global Report 2008



Common themes

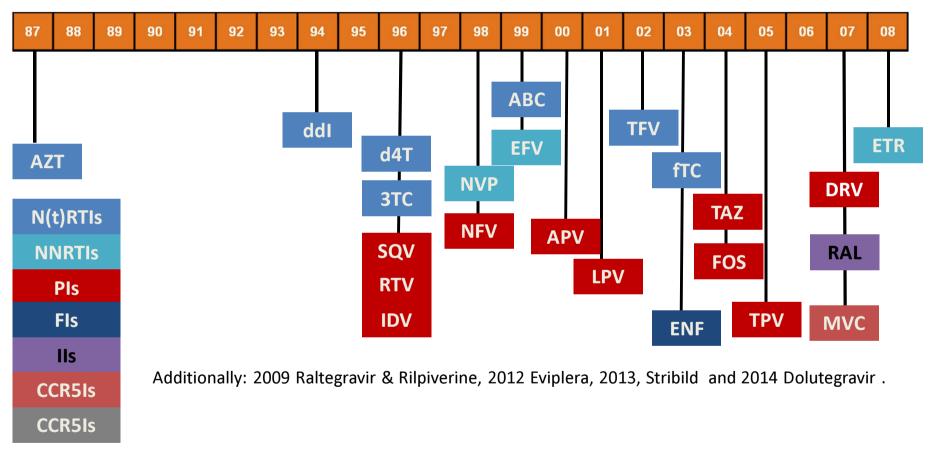
- Triple therapy
 - Drug-drug interactions
 - Adherence and treatment resistance



- Prevention: Sex and recreational drugs
 - Partner notification
- Legal issues and "reckless transmission"

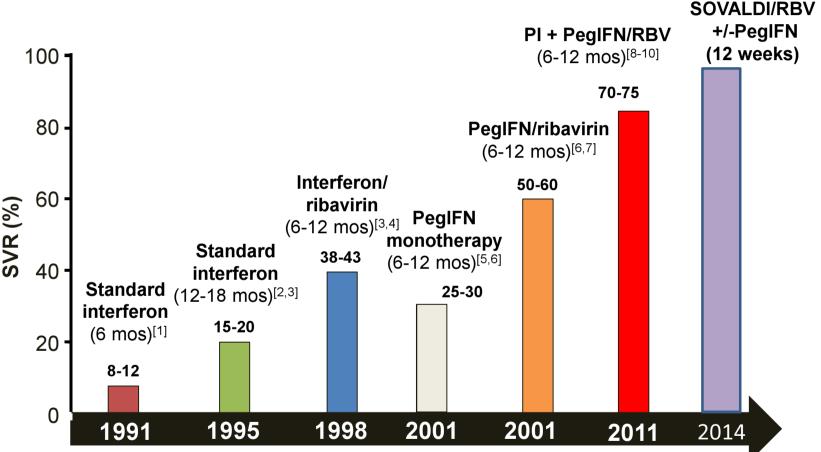


HIV drugs over the years





Treatment of Chronic Hepatitis C (G1)



1. Carithers RL Jr., et al. Hepatology. 1997;26(3 suppl 1):83S-88S. 2. Zeuzem S, et al. N Engl J Med. 2000;343:1666-1672. 3. Poynard T, et al. Lancet. 1998;352:1426-1432. 4. McHutchison JG, et al. N Engl J Med. 1998;339:1485-1492. 5. Lindsay KL, et al. Hepatology. 2001;34:395-403. 6. Fried MW, et al. N Engl J Med. 2002;347:975-982. 7. Manns MP, et al. Lancet. 2001;358:958-965. 8. Poordad F, et al. N Engl J Med. 2011;364:1195-1206. 9. Jacobson IM, et al. N Engl J Med. 2011;364:2405-2416. 10. Sherman KE, et al. N Engl J Med. 2011;365:1014-1024.



Drug-Drug-Interactions



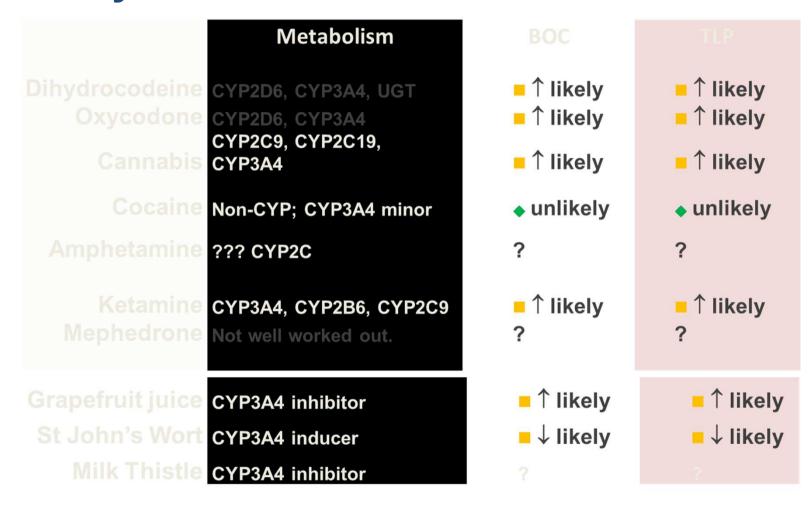


Drug-Drug-Interactions



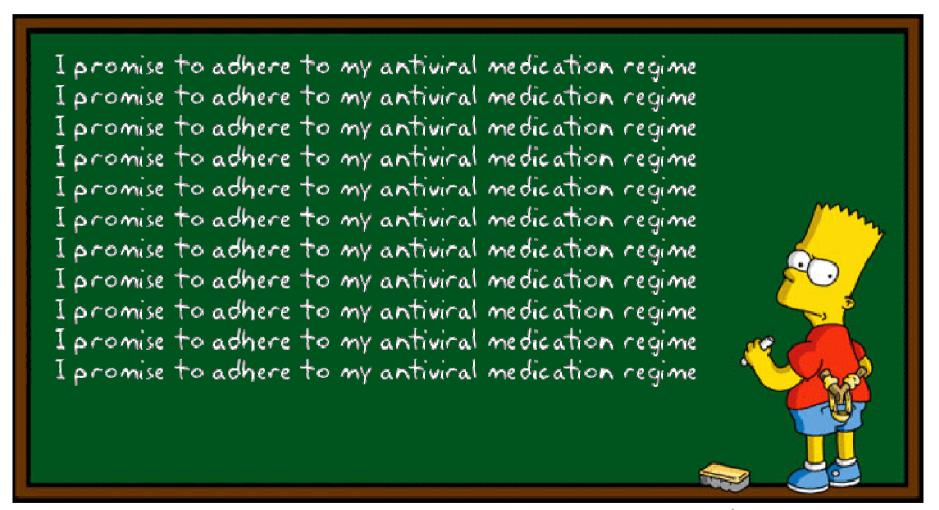


Lifestyle Issues - Self medication





Adherence and treatment resistance



The "80-80-80" rule

McHutchinson noted that improved efficacy can be achieved by delivering at least:

- 80% of the interferon dose, and
- 80% of the ribavirin dose, for at least
- 80% of the standard 48-week duration of therapy.

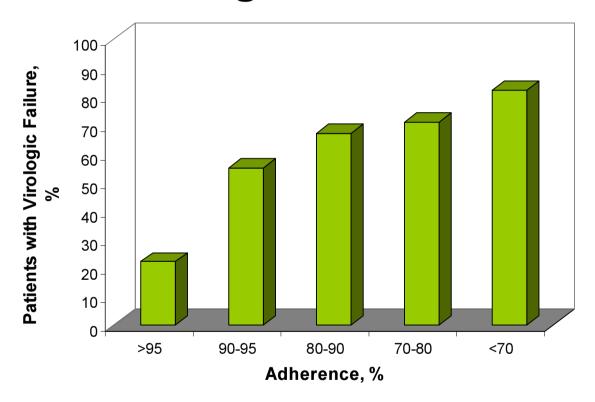
This so-called 80-80-80 rule underscores the importance of managing side effects and maximizing adherence to the regimen.

Adherence to combination therapy enhances sustained response in genotype-1-infected patients with chronic hepatitis C.

McHutchison JG¹, Manns M, Patel K, Poynard T, Lindsay KL, Trepo C, Dienstag J, Lee WM, Mak C, Garaud JJ, Albrecht JK; International Hepatitis Interventional Therapy Group. Available online at: http://www.ncbi.nlm.nih.gov/pubmed/12360468 Last accessed: 18.06.2014



Correlation Between Adherence and Virological Failure



95% adherence is required to achieve undetectable viral loads in 80% of patients. Paterson DL, Swindells S, Mohr J et al. Ann Intern Med. 2000;**133**:21-30



Barriers to adherence

- Therapies with inconvenient dosing schedules and dietary restrictions decrease the likelihood of good adherence¹
- The presence of side effects is a key reason for treatment discontinuation²
- Forgetfulness is a very common barrier to adherence³
- When asked for the primary reason for missing a dose, 32% cited forgetfulness, sleeping through dosing time or running out of drug.
- 1. d'Arminio Monteforte A, Cozzi Lepri A, Pezzotti P, et al. 7th Eur. Conf on Clin Aspects & Treat of HIV Infectn. Lisbon 1999. Abs 121
- 2. Stewart KE, Call SA, Cloud GA et al., 39th ICAAC. USA 1999; Abs 587
- 3. Gallant JE et al. J Int. Ass. of Physicians in AIDS Care. 1998; 4(5):32-35



Adherence

Factors inhibiting

- Perceptions about illness
- Education about disease and medication
- Psychological distress
- Complexity and frequency of dosing
- Expectations about efficacy and risk of side effects
- Poor patient/carer relationship
- Active substance misuse
- Patient's self-belief in their ability to adhere
- High Alcohol Intake

Factors promoting

- Easily incorporated into patient lifestyle
- Convenient and simple dosing
- Dosing not affected by food
- Good tolerability
- Manageable side-effect profile
- Maintained quality of life
- Compact, easy-to-swallow tablets
- Patient beliefs in the efficacy of their prescribed medication
- Patient perceptions of the severity of their disease

Adherence strategies

- Reviewing written materials with each patient and describing technical terms that may be used so that the patient does not find him/herself in an uncomfortable situation where literacy deficits have to be revealed.
- **Providing patients with pictorial or verbal information,** and with models or diagrams to supplement written materials. Displaying materials in both private and public areas creates a safe space for a person to view the materials and may prompt a person to speak with a clinician about the issues raised in the printed material.
- Words, figures or pictures which should represent the exact number of pills a person is taking and should correspond to the appropriate dose. Similarly indicate when & how the medication is to be taken (e.g., symbol for morning for A.M. dose and symbol for food when medication is required to be taken with food).
- Use of medication aids e.g. pill boxes, SMS text services, alarms
- **Discussing possible side effects** (e.g., potential drug and food interactions) prior to a person beginning a particular medication.
- Concentrating efforts to plan for and to manage side effects at times when a new drug or regimen is being started and thus medication side effects are most likely to occur.
- Giving prompt attention to medication problems.
- Initiating a discussion regarding an individual's side effects can assist those who may be hesitant to address such issues, especially when the subjects are perceived as embarrassing or socially unacceptable.
- Referring to peer educators and/or group meetings as good sources for individuals to share practical management tips.



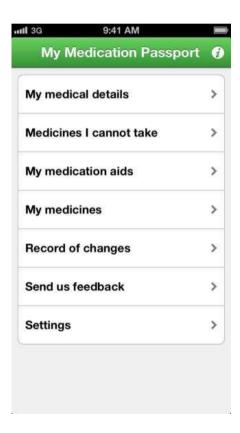
My Medication Passport



My Medication Passport

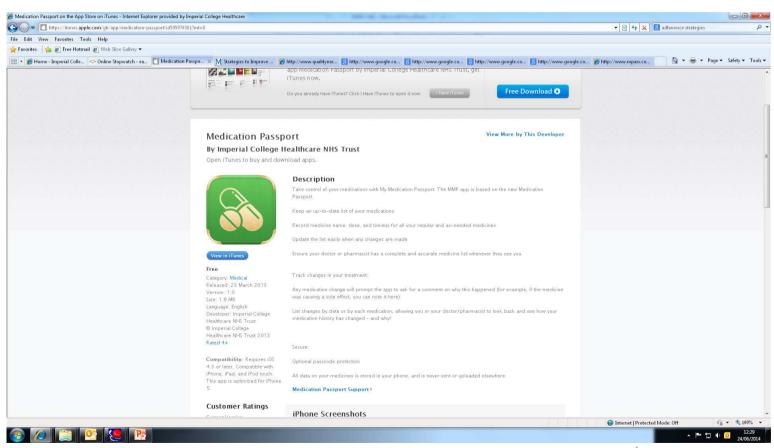






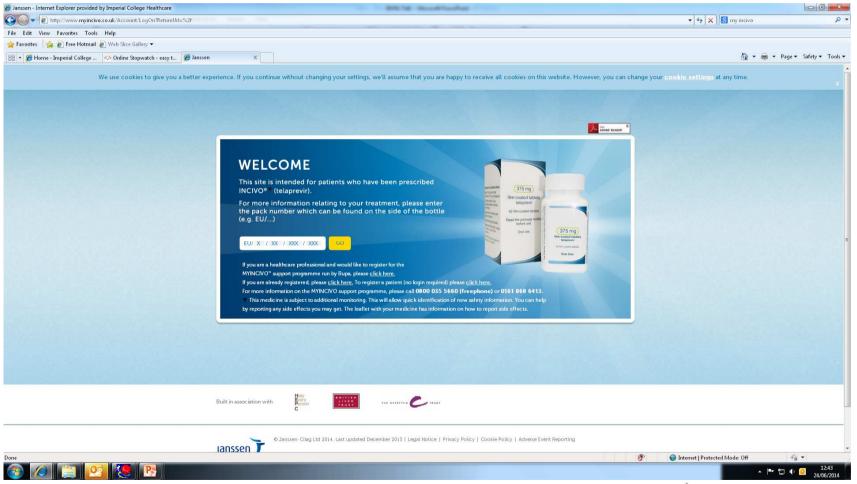


Medication Passport App





"My Incivo"



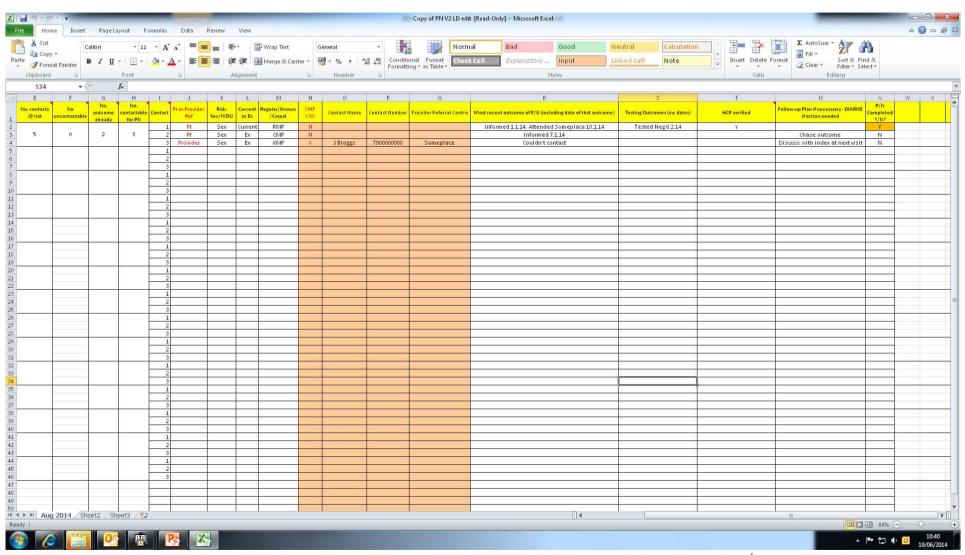
BASHH Statement on Partner Notification for Sexually Transmissible Infections

- Hepatitis B: PN should include any sexual contact (vaginal or anal sex, or oro-anal sex) or injection equipment sharing partners during the period in which the index case is thought to have been infectious. The infectious period is from two weeks before the onset of jaundice until the index case is surface antigen negative. In cases without jaundice, if possible, estimate when infection is likely to have occurred based on a risk assessment. In cases of chronic infection, trace contacts as far back as any episode of jaundice, or to the time when the infection is thought to have been acquired, although this may not be possible for long look-back intervals. Appropriate repeat serological testing of contacts should be offered.
- <u>Hepatitis C:</u> The infectious period for acute hepatitis C is from two weeks before the onset of jaundice. However, usually there is no jaundice or history to suggest acute infection, and the look-back period for PN is to the likely time of infection (*e.g.* blood transfusion or first sharing of injection equipment), although this may not be possible for long look-back intervals. However, PN should be offered in two situations only, where:
 - There was vaginal or peno-anal sexual contact and either the index case and/or the sexual contact(s) have HIV infection
 - Sharing of injection equipment occurred during the period in which the index case is thought to have been infectious
- Appropriate repeat serological testing of these contacts should be offered. Sexual transmission of HCV
 through heterosexual sexual contact is uncommon if both the index case and sexual contacts do not have
 HIV infection, and PN is not recommended for this group.

Available online at http://www.bashh.org/documents/4445.pdf Last Accessed: 18.06.2014

Partner Notification





Policy for prosecuting cases involving the intentional or reckless sexual transmission of infection



- Intentional transmission: Section 18 Offences against the Person Act 1861
- Attempt to commit section 18
- Reckless transmission: Section 20 Offences against the Person Act 1861
- Evidential issues
- "a deliberate closing of the mind" (previously called 'Wilful blindness')

You may be guilty of Sexual Transmission of Infection if all five points below applied to you at the time of the alleged offence:

- You knew you had HIV / Viral Hepatitis
- You understood how HIV / Viral Hepatitis is transmitted
- You had sex with someone who didn't know you had HIV / Viral Hepatitis
- You had sex without a condom
- You transmitted HIV / Viral Hepatitis to that person.

http://www.nat.org.uk/media/Files/Publications/May_2010_Prosecutions_for_HIV_Transmission.pdf http://www.cps.gov.uk/publications/prosecution/sti.html#03 Last accessed 19.06.14