

Verso l'eliminazione dell'HCV nelle key populations

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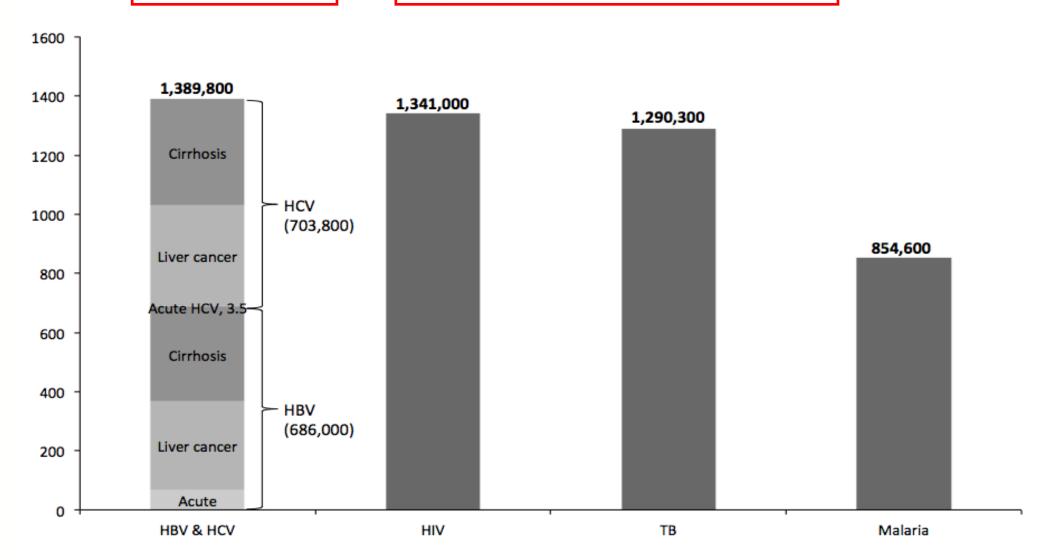


Definitions

- ► Eradication refers to the complete and permanent worldwide reduction to zero new cases of an infectious disease through deliberate efforts, with no further control measures required (e.g. smallpox).
- ► Elimination refers to the reduction of the incidence of infection caused by a specific agent to zero in a defined geographical area as a result of deliberate efforts, but requires the presence of continued measures to prevent re-establishment of transmission (e.g. poliomyelitis).
- ► As such, eradication of HCV infection would represent a considerably greater challenge compared to elimination.



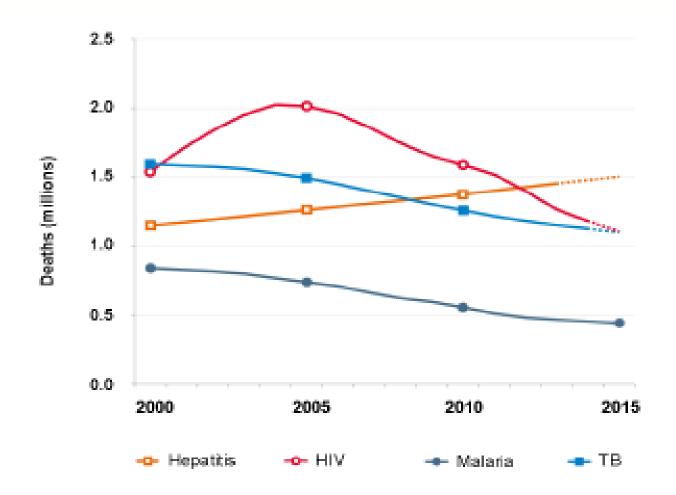
Worldwide deaths from HCV, HBV, HIV, tuberculosis, and malaria in 2013



Global Burden of Disease report, Lancet 2014, 385: 117-171

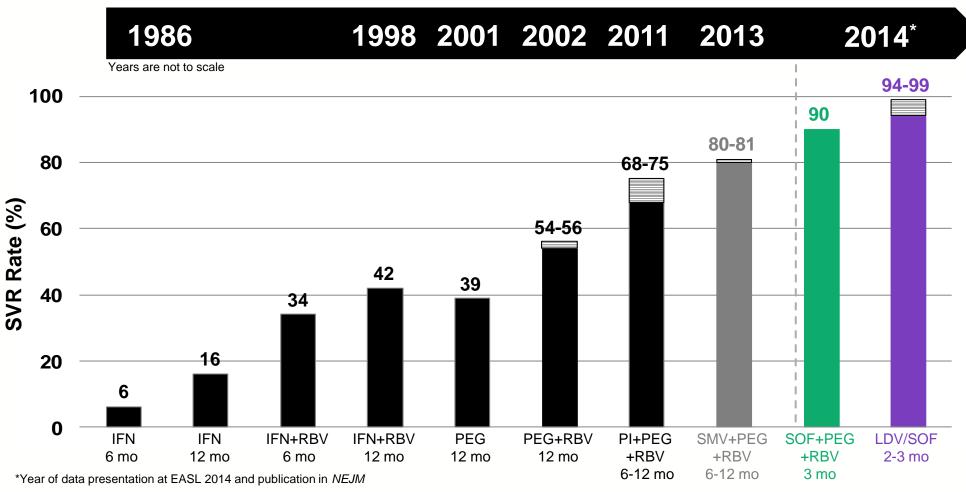


Estimated global number of deaths due to viral hepatitis, HIV, malaria and TB, 2000–2015



Source: Global Burden of Disease and WHO/UNAIDS estimates, see http://ihmeuw.org/3pms, http://ihmeuw.org/3pmt (accessed 2 April 2016).

SVR Rates over the years in the treatment of HCV infection



Adapted from Strader DB, et al. *Hepatology* 2004;39:1147-71. INCIVEK [PI]. Cambridge, MA: *Vertex Pharmaceuticals*; 2013. VICTRELIS [PI]. Whitehouse Station, NJ: Merck & Co; 2014. Jacobson I, et al. EASL 2013. Amsterdam. The Netherlands. Poster #1425. Manns M, et al. EASL 2013. Amsterdam. The Netherlands. Oral #1413. Lawitz E, et al. APASL 2013. Singapore. Oral #LB-02; Afdhal N, et al. *N Engl J Med* 2014; 370: 1889-98; Kowdley K, et al. *N Engl J Med* 2014; 370: 1879-88.



Diamo qualche numero

■ An estimated 130-170 million people worldwide (2-3% of the population) are currently infected.

Because most infections are asymptomatic, up to 75-90% of HCV-positive individuals are anaware of theis infections: a silent epidemic

■ Over 350.000 deaths have been attributed to HCV infections annually, most caused by cirrhosis and HCC

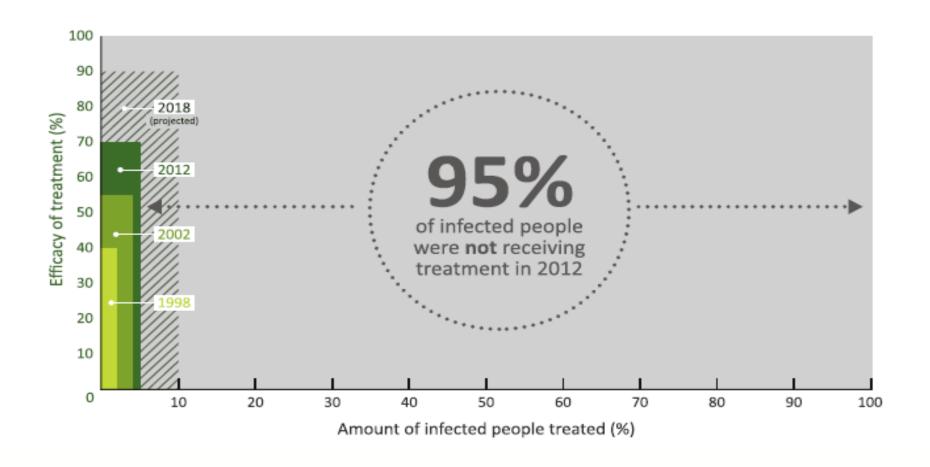
HCV-infected individuals have 2.4 times the risk of all-causes mortality, 26.5 times the risk of liver-related mortality

■ Despite increases in treatment efficacy, estimates of uptake are low, ranging from 10-25% in North America to 40-45% in Europe

New all oral DAA treatment are expected to increase dramatically uptake of treatment and probably eliminate specialist referral



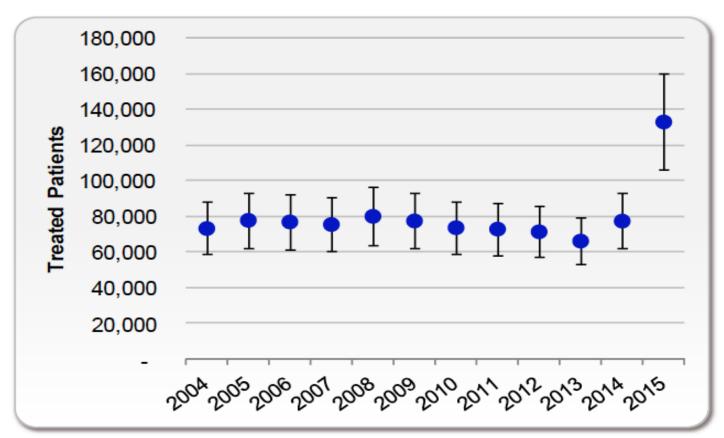
The disparity between potential HCV treatment efficacy and projected HCV treatment effectiveness



J. Grebely et al. Antiviral Research, 2014

The number of treated patients increased in 2014 and 2015 after a period of warehousing patients

Total Number Treated in EU



Source: Polaris Observatory (www.centerforda.com/polaris)

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WHO Policy for HCV

- Sustainable Development Goals for 2030 includes specific mention of viral hepatitis.
- WHO is currently developing the first global strategy addressing viral hepatitis with a goal of eliminating viral hepatitis as major public health threat by 2030.
- WHO → comprehensive normative and policy guidance to countries in strengthening their efforts to combat hepatitis.
 - **first-ever WHO guidelines for hepatitis treatment** were released **in 2014** addressing screening, care and treatment of persons with hepatitis C infection.
 - updating its hepatitis C treatment guidelines in 2016
 - full updated WHO guidelines EASL2016 13-17 April in Barcelona, Spain





GUIDELINES FOR THE SCREENING, CARE AND TREATMENT OF PERSONS WITH HEPATITIS INFECTION APRIL 2014

1. Screening to identify persons with HCV infection:

How: HCV serology testing

Whom: population with high HCV prevalence or

history of HCV risk exposure/behaviour.

2. Confirm the diagnosis of chronic HCV infection:

How: NAT for HCVRNA

- 3. Screening for alcohol use and counselling to reduce moderate and high levels of alcohol intake
- 4. Assessing degree of liver fibrosis and cirrhosis+

How: APRI/FIB4 → Fibrotest Fibroscan

5. Assessing for HCV treatment





Updated WHO Guidelines (2016)

- It is recommended that **direct-acting antiviral** (DAA) regimens be used for the treatment of persons with hepatitis C infection rather than regimens with pegylated interferon/ribavirin.
- For patients with HCV genotype 3 infection with cirrhosis, and patients with genotypes 5 and 6 infection with and without cirrhosis, sofosbuvir/pegylated interferon and ribavirin is still recommended as an alternative treatment option
- Boceprevir- or telaprevir-containing regimens are no longer recommended for the treatment of persons with hepatitis C infection.



