Do the most heavily burdened countries have the right policies to eliminate viral hepatitis B and C?

VHPB Meeting

Antwerp 5th April 2023

Accelerating the elimination of viral hepatitis: a Lancet Gastroenterology & Hepatology Commission

Graham S Cooke, Isabelle Andrieux-Meyer, Tanya L Applegate, Rifat Atun, Jessica R Burry, Hugo Cheinquer, Geoff Dusheiko, Jordan J Feld, Charles Gore, Max G Griswold, Saeed Hamid, Margaret E Hellard, JinLin Hou, Jess Howell, Jidong Jia, Natalia Kravchenko, Jeffrey V Lazarus, Maud Lemoine, Olufunmilayo A Lesi, Liudmyla Maistat, Brian J McMahon, Homie Razavi, Teri R Roberts, Bryony Simmons, Mark W Sonderup, C Wendy Spearman, Bridie E Taylor, David L Thomas, Imam Waked, John W Ward, Stefan Z Wiktor, on behalf of The Lancet Gastroenterology & Hepatology Commissioners*

- Broad range of commissioners from across the world
- Detailed discussion of key issues in achieving elimination
- Aiming to complement plans of major NGOs
- Key recommendations

Regional focus on elimination progress

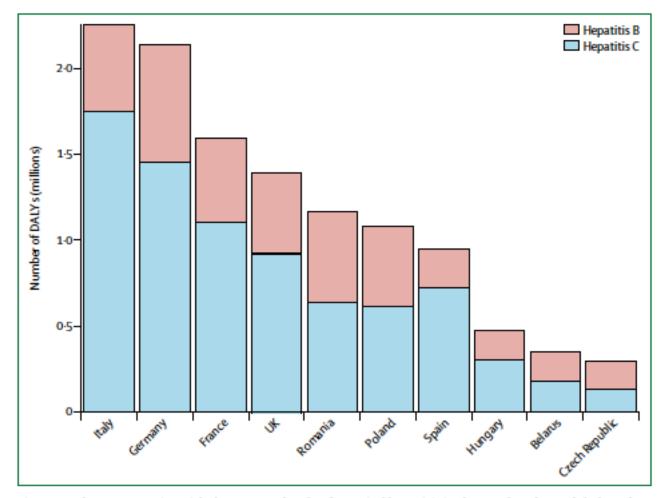
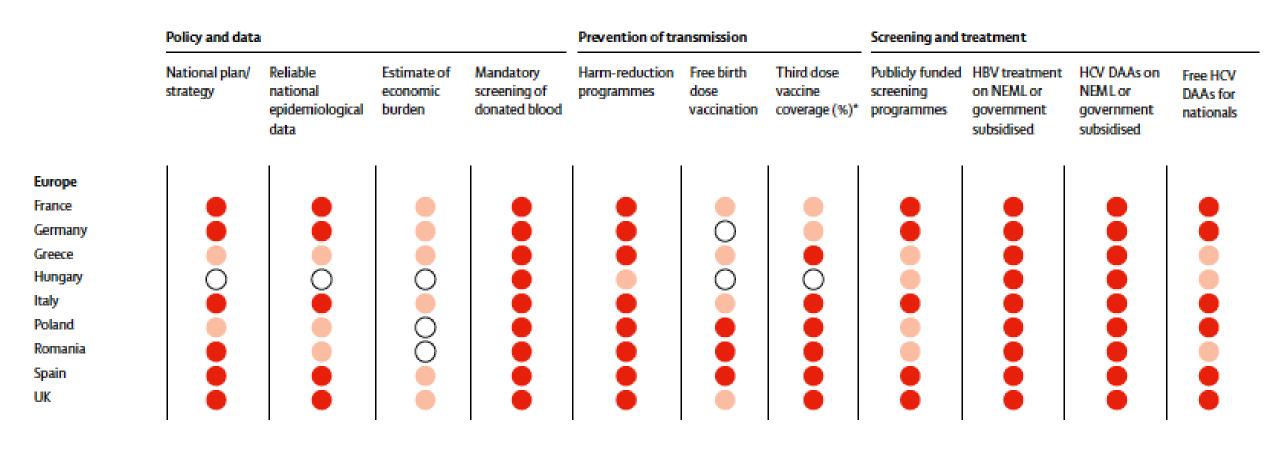


Figure 10: The ten countries with the greatest burden from viral hepatitis in the EU (data from Global Burden of Disease, 2016)

And progress in a range of policies



8 relate to HBV, 7 to HCV, 11 in total

Do the most heavily burdened countries have the right policies to eliminate viral hepatitis B and C?

Adam Palayew, Homie Razavi, Sharon J Hutchinson, Graham S Cooke*, Jeffrey V Lazarus*

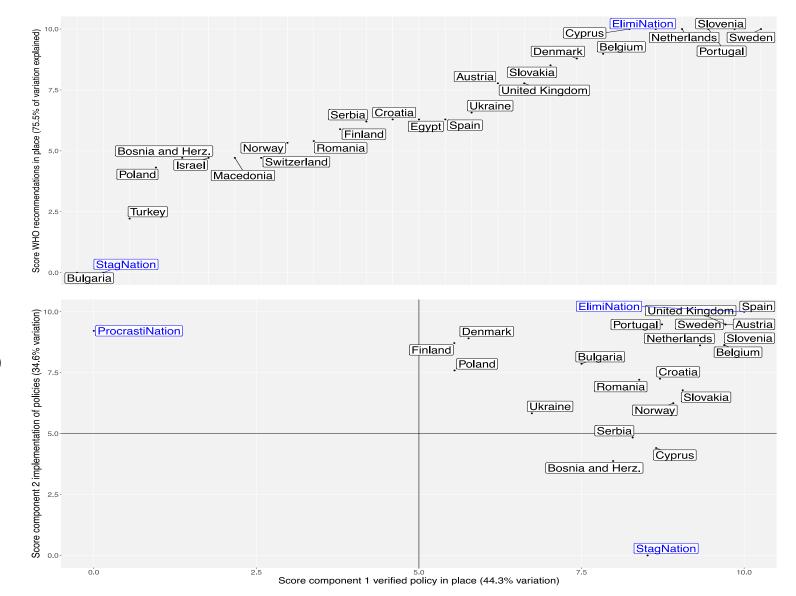
Lancet Gastroenterol Hepatol 2020; 5: 948–53

Methods: For building an index

- The goal is to indirectly measure something that fundamentally cannot be measures (policy preparedness) and use a variation of factor analysis to determine the underlying variation in the multidimensional data
- The first step is determining the theoretical *a priori* i.e. deciding what the underlying construct we are trying to measure and subsequently consult with experts to determine the best variables to measure that construct
- Multiple correspondence analysis is used to determine weights on *a priori* data
- The weights are then used to generate scores and then standardized from 0 to 100 using a min-max transformation

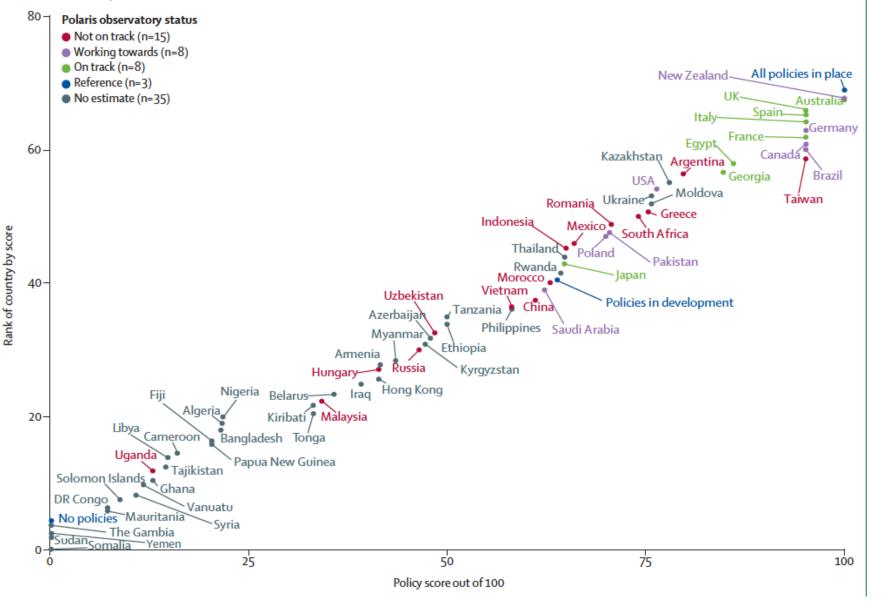
Hep-CORE

- Study from Oct 2018 surveyed 30 liver patient groups in the EU/EEA/UK and Mediterranean basin of which 25 responded
- Found that there was a gap in policy implementation from the perspective of liver patient groups



Palayew A, Stumo SR, Cooke GS, Hutchinson SJ, Jauffret-Roustide M, Maticic M, Harris M, Metwally AM, Razavi H, Lazarus JV and Hep-CORE Study Group, 2020. The Hep-CORE policy score: A European hepatitis C national policy implementation ranking based on patient organization data. *PLoS One*, 15(7), p.e0235715.

HCV country rank



Best developed

Brazil, Egypt, USA

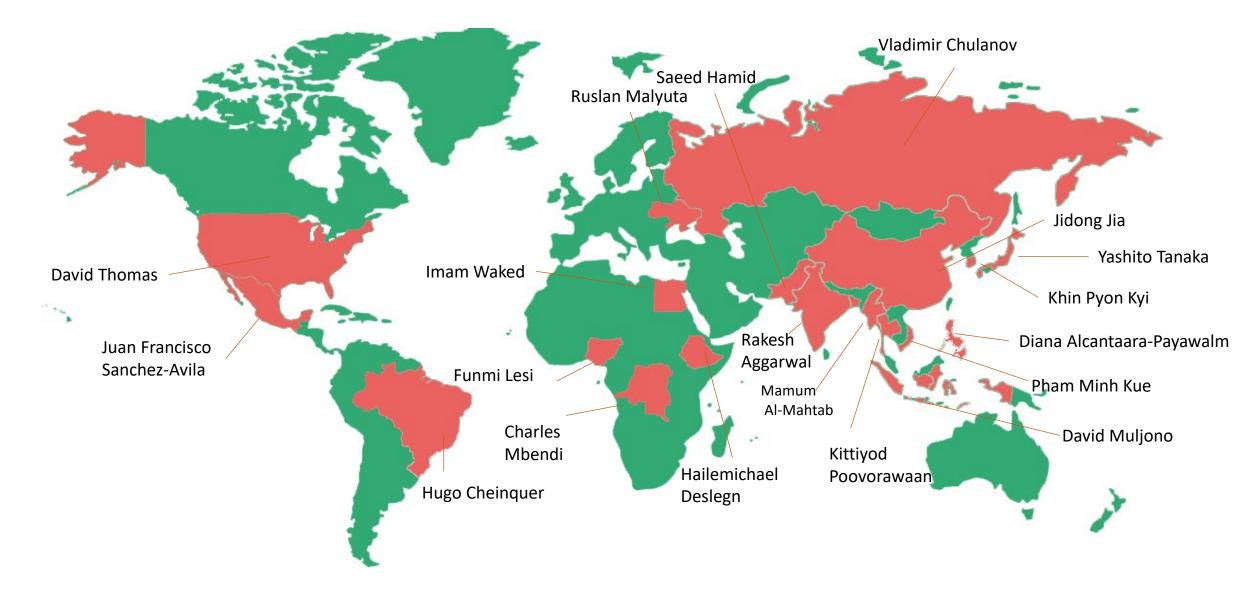
Least developed

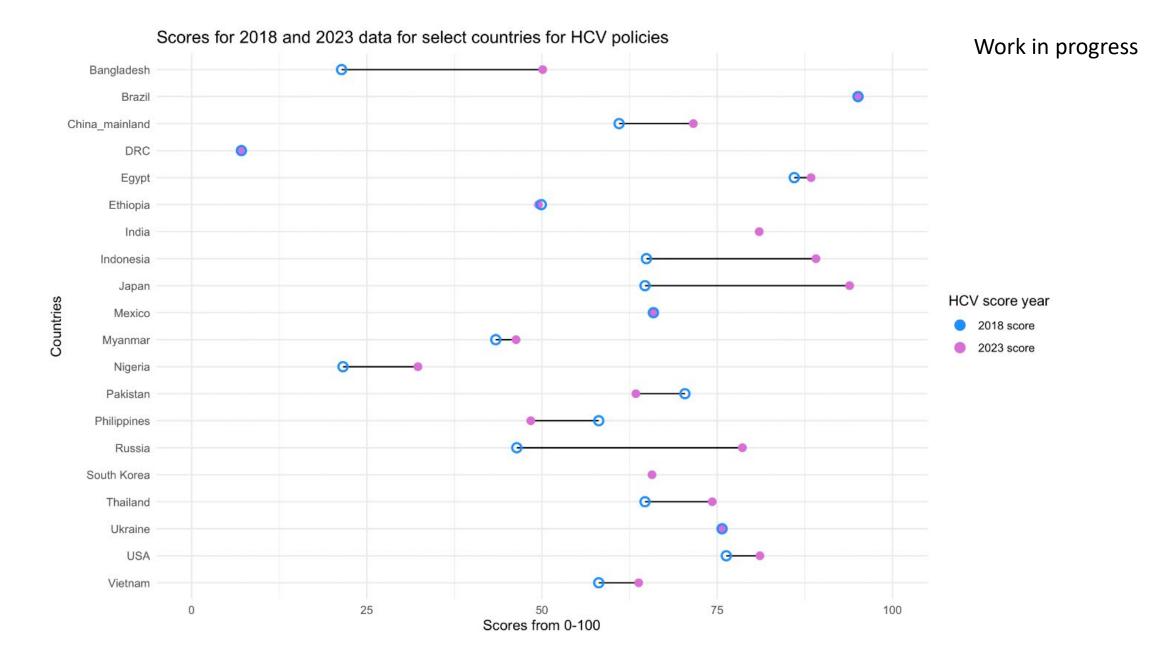
DRC, Nigeria, Bangladesh, Russia

In development Remainder including Philippines, Myanmar, Vietnam

Commission Update 2023

The H20: National Narratives and Elimination Profiles





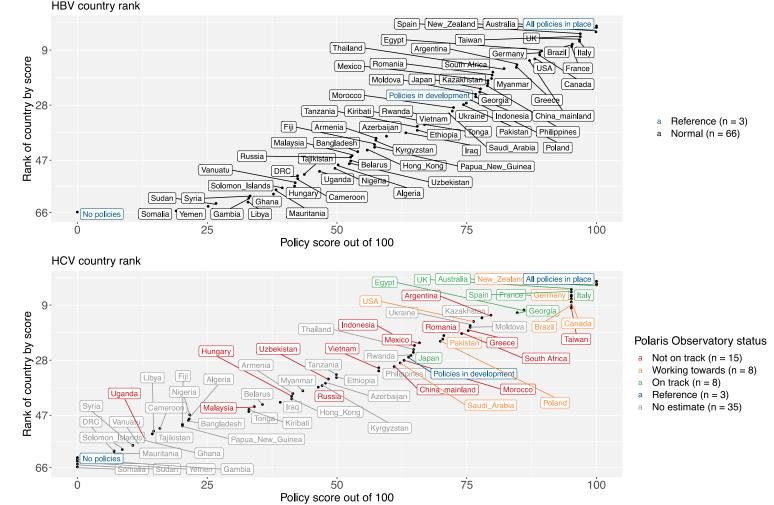
With thanks to:

- Adam Palayew, Jeffrey Lazarus
- All commissioners
- CGHE (John Ward, Lindsey Hiebert, Neil Gupta)
- IHME (Hannah Han, Mae Dirac)
- Lancet Gastroenterology and Hepatology (Robert Brierley)
- Kirby Institute (Jason Grebely, Evan Cunningham , Alison Marshall)
- Imperial College (Barnaby Flower, Ella Barber)

Discussion

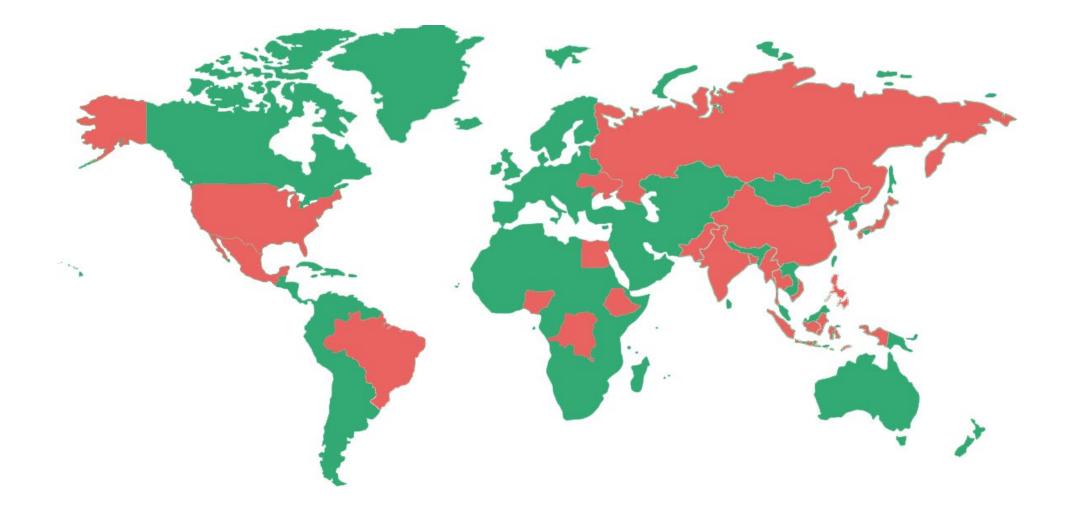
Lancet GastroHep commission follow on analysis

- Study from Aug 2019 analyzed data from 66 countries around the world of which data were reported on in the Lancet GastroHep commission
- We found that for hepatitis B and hepatitis C there was a spectrum of policies in place around the world. We found for HCV that countries that were on track generally had a higher score, but that there were countries with high scores that were not on track for elimination and countries with lower scores that were on track.



On track for elimination is defined as a 80% reduction in the incidence of HCV and a 65% reduction in HCV-related mortality by 2030.

The H20 : 20 most heavily burdened countries



Slide : Chris Wingrove , World Hepatitis Alliance