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### Disclosures

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- Research grants from non-governmental organisations including the European Liver Patients Association and the World Hepatitis Alliance
- Previously employed by international agencies: Global Fund, World Health Organization



## Some questions for you...

- 1. Do you believe that the global elimination of HCV as a major public health threat by 2030 is possible?
- 2. Are you familiar with the hepatitis elimination targets in the WHO GHSS on viral hepatitis?
- 3. Do the SDGs target viral hepatitis?

A question to ponder...



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## Meeting two types of challenges



# But is it realistic to eliminate any infectious disease?



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# New global political will to eliminate HCV



# WHO Global Health Sector Strategy on Viral Hepatitis 2016–2021





**28 May 2016: The first of its kind,** WHO publishes a global strategy aiming for elimination of viral hepatitis as a public health threat by 2030

Source: WHO Global Health Sector Strategy on viral hepatitis. Available at: http://apps.who.int/gb/ebwha/pdf\_files/WHA69/A69\_32-en.pdf?ua=1 (Accessed August 2016)

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# Global Health Sector Strategy on Viral Hepatitis, 2016-2021



- The five strategic directions of the Global health sector strategy on viral hepatitis, 2016–2021
- Governments/ regions need to address these in their national context



Source: WHO Global Health Sector Strategy on viral hepatitis. Available at: http://apps.who.int/gb/ebwha/pdf\_files/WHA69/A69\_32-en.pdf?ua=1(Accessed August 2016)

# Global Health Sector Strategy HCV targets at a glance



	Incidence targets <ul> <li>30% reduction in new HCV infections by 2020</li> <li>80% reduction in new HCV infections by 2030</li> </ul>
	Mortality targets <ul> <li>10% reduction in mortality by 2020</li> <li>65% reduction in mortality by 2030</li> </ul>
	Harm reduction <ul> <li>Increase in sterile needle and syringes provided per PWID/year from 20 in 2015 to: <ul> <li>200 by 2020</li> <li>300 by 2030</li> </ul> </li> </ul>
	Testing targets 90% of people aware of HCV infection by 2030
	Treatment targets <ul> <li>80% of people treated by 2030</li> </ul>
Source: http://apps.who.int/gb/ebwha/pdf_files/WHA69/A69_32-en.pdf?ua=1 (Accessed August 2016)	

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# The Six Building Blocks of the Health System



"A health system consists of all organisations, people and actions whose *primary intent* is to promote, restore or maintain health"

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Source: WHO 2007.

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# A paradigm change: The central role of people and communication



Source: Lazarus and France. A new era for the WHO health system building blocks? 2014

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## People-centred health systems



See: http://www.who.int/servicedeliverysafety/areas/people-centred-care/en/

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# A **people-centred** health system for hepatitis elimination



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# Many countries have developed national hepatitis plans







# Every country needs a bespoke strategy to reduce disease burden and eliminate HCV





## HCV (micro-) elimination in certain populations is also feasible in the shortto-medium term





#### Expanding prescriber base

In countries without prescriber restrictions, such as Australia, general practitioners and non-specialists have greater access to reach patients in need of treatment







Source: Hajarizadeh B, Grebely J, Matthews GV, Martinello M, Dore GJ. The path towards hepatitis C elimination in Australia following universal access to interferon-free treatments. Poster to be presented at: International Liver Congress. 2017; Amsterdam, Netherlands.

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Licensing requirements for DAA prescription

- 24% (n=25) of patient groups surveyed reported that non-specialists are able to prescribe DAAs to HCV patients in their country and in only two cases were they GPs
- The majority (64%) require at least a gastroenterologist



Source: The 2016 Hep-CORE Report: http://www.elpa.eu/sites/default/files/documents/Hep-CORE\_full\_report\_21Dec2016\_Final%5B2%5D.pdf
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<sup>a</sup> Fibrosis stage restrictions based on HCV genotype

<sup>b</sup> Fibrosis stage is included in a point system for prioritisation of DAA therapy

Source: Marshall, AD et al. Restrictions for reimbursement of interferon-free direct acting antiviral therapies for HCV infection in Europe. Poster presented at The International Liver Congress. 19-23 April 2017. Amsterdam, The Netherlands. 2 + #AVHFC17 @IVLazarus - @immunization



\* Regimen recently approved

Sources: Pawlotsky JM, et al. J Hepatol 2016; 62: S87–99; Manns M, et al. Nat Rev Dis Primers 2017;3:1–19.

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SACC: "Borgernær" shared care



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Source: http://www.chip.dk/Collaborations/SACC @JVLazarus - @immunization









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# The continuum of viral hepatitis services and the retention cascade



Source: WHO Global Hepatitis Report, 2017. Available at www.who.int/hepatitis/publications/global-hepatitis-report2017/en/ (accessed May 2017).



# The global cascade of care for chronic HCV infection in 2015



#### Nature Reviews | Gastroenterology & Hepatology

Adapted by Macmillan Publishers Ltd, part of Springer Nature with permission, from Global Hepatitis Report, 2017, World Health Organization, page 30, figure 8, 2017

Source: Lazarus JV. et al. Many European countries 'flying blind' in their efforts to eliminate viral hepatitis. Nat. Rev. Gastroenterol. Hepatol. doi:10.1038/nrgastro.2017.98

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## Eliminate late presentation

Mauss et al. BMC Medicine (2017) 15:92 DOI 10.1186/s12916-017-0856-y

BMC Medicine

CORRESPONDENCE



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#### Late presentation of chronic viral hepatitis for medical care: a consensus definition

Stefan Mauss<sup>1,2</sup>, Stanislas Pol<sup>2,9</sup>, Maria Buti<sup>2,3</sup>, Erika Duffell<sup>4</sup>, Charles Gore<sup>5</sup>, Jeffrey V. Lazarus<sup>6</sup>, Hilje Logtenberg-van der Grient<sup>7</sup>, Jens Lundgren<sup>6</sup>, Antons Mozalevskis<sup>6,8</sup>, Dorthe Raben<sup>6,10\*</sup>, Eberhard Schatz<sup>11</sup>, Stefan Wiktor<sup>12</sup>, Jürgen K. Rockstroh<sup>10,13</sup> and on behalf of the European consensus working group on late presentation for Viral Hepatitis Care

#### Abstract

Introduction: We present two consensus definitions of advanced and late stage liver disease being used as epidemiological tools. These definitions can be applied to assess the morbidity caused by liver diseases in different health care systems. We focus is on hepatitis B and C virus infections, because effective and well tolerated treatments for both of these infections have greatly improved our ability to successfully treat and prevent advanced and late stage disease, especially if diagnosed early. A consensus definition of late presentation with viral hepatitis is important to create a homogenous, easy-to-use reference for public health authorities in Europe and elsewhere to better assess the clinical situation on a population basis.

Methods: A working group including viral hepatitis experts from the European Association for the Study of the

# Some countries may achieve the WHO targets by or even before 2030



Sources: Gottfredsson F, et al. HIV and Hepatitis Nordic Conference 2016; Abstract #05; Gvinjilia L, et al. MMWR 2016; 65:1132–5; Monitoring hepatitis C treatment uptake in Australia. Issue #5, September 2016. Available at: <a href="https://kirby.unsw.edu.au/report/monitoring-hepatitis-c-treatment-uptake-australia-issue-7-july-2017">https://kirby.unsw.edu.au/report/monitoring-hepatitis-c-treatment-uptake-australia-issue-7-july-2017</a> (accessed Aug 2017)

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### **Putting it all together** ... A people-centred health systems approach to HCV elimination in Australia

When we look at eliminating HCV as a public health challenge that should be approached from a health systems perspective ...

What contributions to this historical moment do you see yourself making?

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and at ISGlobal, Barcelona: Samya R. Stumo, Kelly Safreed-Harmon



# Hep-CORE

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#### Hep-CORE study countries / ELPA members

Austria Germany Belgium Greece Bosnia & Hungary Herzegovina Israel Bulgaria Italy Croatia Macedonia Denmark Netherlands Egypt Poland Finland Portugal France Romania

Serbia Slovakia Slovenia Spain Sweden Turkey Ukraine Ukraine United Kingdom

#### Hep-CORE study group

Charles Gore (World Hepatitis Alliance) Hande Harmanci (WHO) Magdalena Harris (LSHTM) Greet Hendrickx (Viral Hepatitis Prevention Board) Marie Jauffret-Roustide (Paris Descartes University) Achim Kautz (EIPA) Mojca Matičič (University Medical Centre Ljubijana) Luís Mendão (Grupo de Ativistas em Tratamentos (GAT)) Antons Mozalevskis (WHO Euro) Raquel Peck (World Hepatitis Alliance) Tatjana Reic (ELPA) Eberhard Schatz (Correlation Network) Kaarlo Simojoki (A-Clinic Foundation, Finland) Joan Tallada (European AIDS Treatment Group)

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