

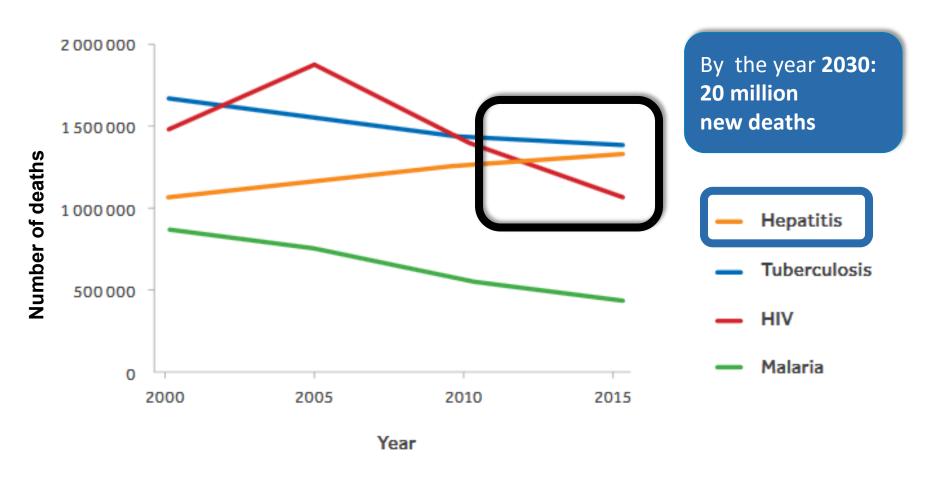
EASL Hepatitis treatment strategies in the framework of elimination of viral hepatitis as a public health treat

Prof. Mojca Matičič, MD, PhD

EASL Policy and Public Health Committee

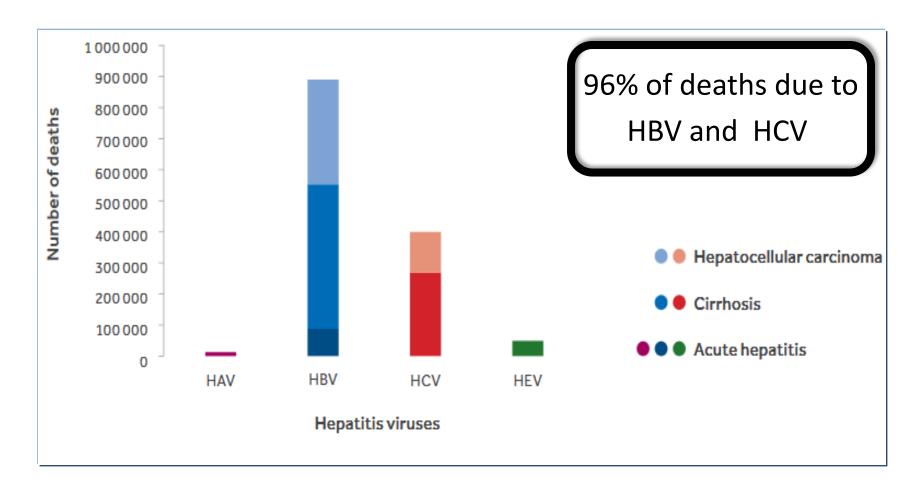
VHPB Meeting, Budapest: October 30, 2019

Global number of deaths due to viral hepatitis in 2015

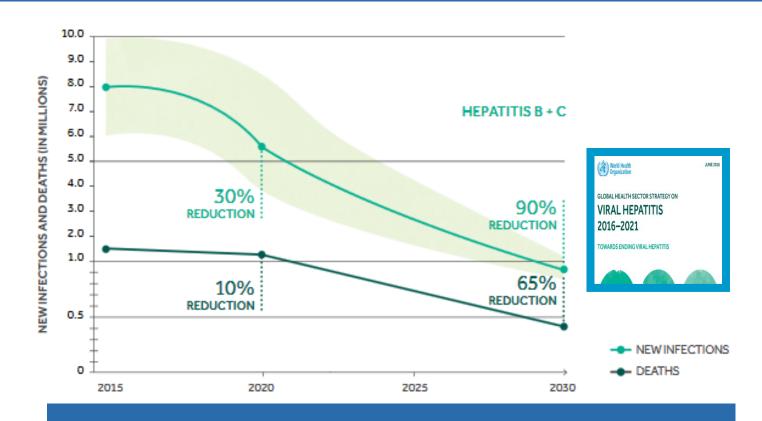


WHO. Global hepatitis report, 2017. http://apps.who.int/iris/bitstream/10665/255017/1/WHO-HIV-2017.06-eng.pdf.

Global number of deaths due to viral hepatitis in 2015

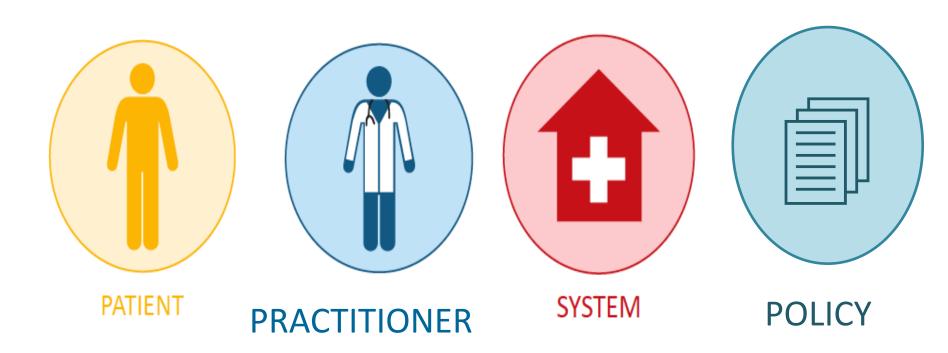


WHO strategy towards elimination of viral hepatitis as a public health threat



Targets for reducing new cases of infection and deaths from chronic hepatitis B and C by 2030

Barriers to elimination of viral hepatitis on the national level



Lazarus JV, et al. BMC Infect Dis 2014;14(Suppl 6):S16; Grebely J, et al. J Infect Dis 2013;207:S19–25; Harris M, Rhodes T. Harm Reduct J 2013;10:7; Papatheodoridis GV, et al. Liver Int 2014;34:1452–63



Our mission

EASL's mission is to be the Home of Hepatology so that all who are involved with treating liver disease can realise their full potential to cure and prevent it. The purpose of the association is to promote communication between European workers interested in the liver and its disorders

...and MORE



The strategic directions

SCIENCE

To be a key facilitator of excellence in liver research and liver-related innovation

EDUCATION

To be the prime resource for liver-related education and professional development of Health Care Professionals at all layers in the health care system as well as patients

ADVOCACY

To be the advocate of the highest standards of hepatology care for patients



Promote research concerning the liver



Act as an advisor to European and national health authorities concerning liver diseases, provision of clinical services and the need for research funding

Foster European multicentre controlled trials

Facilitate scientific exchange

В.

Ε.

Facilitate participation of Young Investigators at its meetings



Key partners

- Institutional
 - WHO
 - ECDC
 - CDC
 - EMA
 - VHPB
 - ECDA
 - Biomed Alliance

NGO

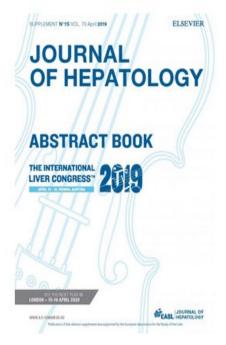
- Eurocare, SHAAP
- UEG
- WHA
- Biomed Alliance
- Patients associations: ELPA

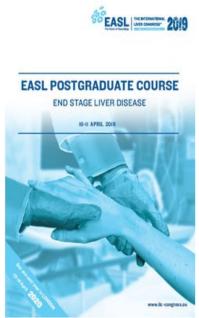
PSC/ERN



EASL/ILC - Conferences

ILC 2019 resources



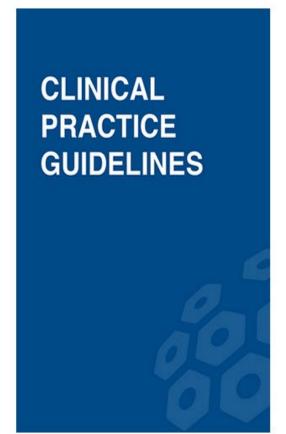








Publications







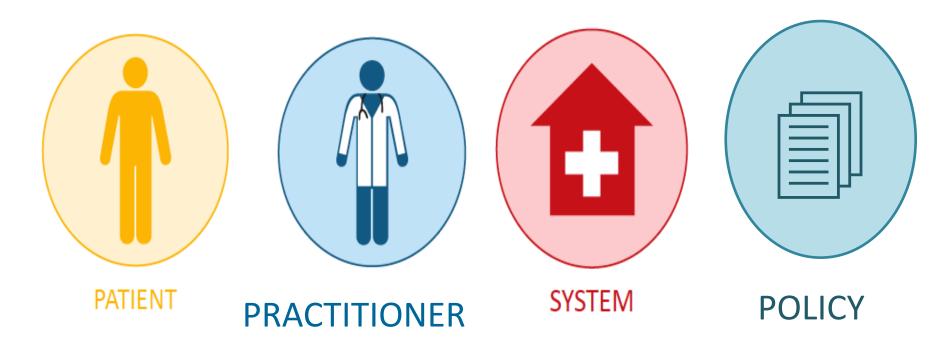


Main focuses of EASL Policy

- Viral Hepatitis
- Alcohol and alcohol-related policies
- NAFLD and food policy
- EU research policy (Horizon 2020, Horizon Europe)

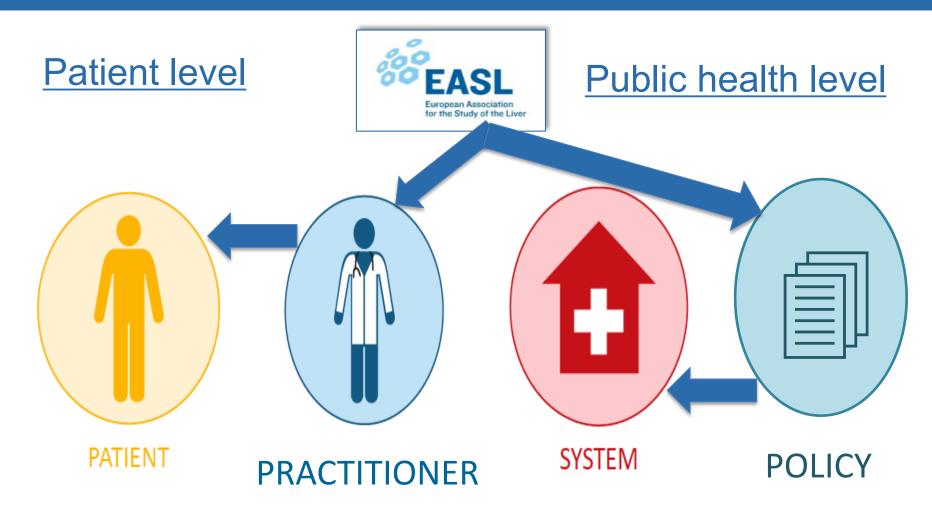
EASL Hepatitis treatment strategies in the framework of elimination of viral hepatitis as a public health treat





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EASL Hepatitis treatment strategies in the framework of elimination of viral hepatitis as a public health treat





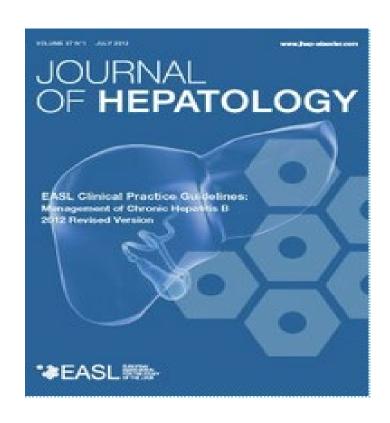
PATIENT Clinical Practice Guidelines on Viral Hepatitis

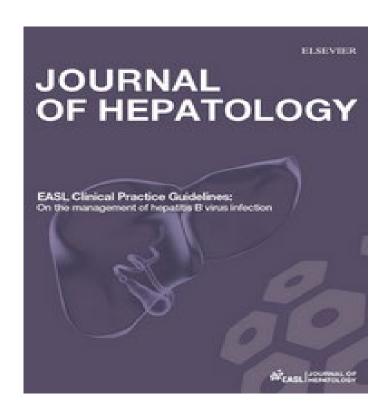
- Hepatitis B
- Hepatitis C
- Hepatitis E
- Decompensated cirrhosis
- HCC





EASL Clinical Practice Guidelines – Hepatitis B









EASL Recommendations on Treatment of Hepatitis B 2017

Chair

Pietro Lampertico

Panel members

Kosh Agarwal, Thomas Berg, Maria Buti, Harry LA Janssen, George Papatheodoridis, Fabien Zoulim, Frank Tacke (EASL Governing Board representative)

Reviewers

Maurizia Brunetto, Henry Chan, Markus Cornberg



EASL Clinical Practice Guidelines – Hepatitis C

2011 2013 2015 2016 2018







EASL Recommendations on Treatment of Hepatitis C 2018

Chair

Jean-Michel Pawlotsky

EASL govrning board Representative

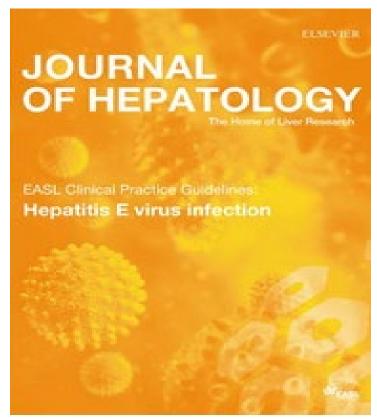
Francesco Negro

Panel

Alessio Aghemo , Marina Berenguer, Olav Dalgard, Geoffrey Dusheiko, Fiona Marra, Massimo Puoti, Heiner Wedemeyer



EASL Clinical Practice Guidelines – Hepatitis E



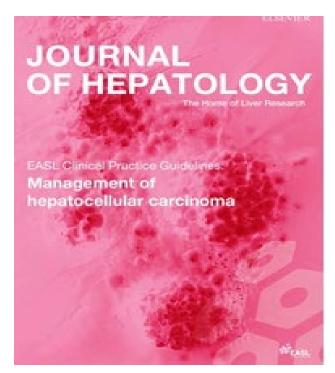


EASL Clinical Practice Guidelines – Decompensated cirrhosis





EASL Clinical Practice Guidelines – Hepatocellular carcinoma





EASL Recommendations







WHO / HOW to test?

Screening for chronic HCV infection



Recommendations Grade of evidence Grade of recommendations	commen	dation
 Screening strategies Screening according to local epidemiology and within framework of national plans 	А	1
 May include at-risk populations, birth cohort testing and general population testing in areas of intermediate to high seroprevalence (≥2–5%) 	В	2
Based on detection of serum/plasma anti-HCV Abs using EIA	Α	1
 Anti-HCV Ab testing Should be offered with linkage to prevention, care and treatment Dried blood spots can be used as alternative to serum or plasma* Use RDTs[†] (as an alternative to classical EIA) at patient's care site to facilitate screening and improve access to care 	A A A	1 2 2
 HCV RNA testing If anti-HCV Ab detected, test for serum/plasma HCV RNA (or HCV core antigen)[‡] to identify patients with ongoing infection Dried blood spots can be used as alternative to serum or plasma* Reflex testing for HCV RNA in patients who are anti-HCV Ab+ should be applied to increase linkage to care 	A A B	1 2 1
 Anti-HCV Ab screening can be replaced by a point-of-care HCV RNA assay (LLOD: ≤1000 IU/mL) or HCV core antigen testing[§] 	С	2

^{*}After shipment to a central laboratory where the EIA will be performed; †Using serum, plasma, fingerstick whole blood or saliva as matrices; ‡If HCV RNA assays are not available and/or not affordable; § If available and screening strategy is cost effective

Indications for treatment



Recommendations Grade of evidence Grade of recomm	endatio	n
All patients with HCV infection must be considered for therapy, including treatment-naïve and treatment-experienced* patients	Α	1
 Patients who should be treated without delay Significant fibrosis or cirrhosis (METAVIR score ≥F2): including compensated (Child-Pugh A) and decompensated (Child-Pugh B or C) cirrhosis Clinically significant extra-hepatic manifestations[†] HCV recurrence after liver transplantation Patients at risk of rapid evolution of liver disease due to concurrent comorbidities[‡] Individuals at risk of transmitting HCV PWID MSM with high-risk sexual practices Women of child-bearing age who wish to get pregnant Haemodialysis patients Incarcerated individuals 	Α	1
• In patients with decompensated cirrhosis and an indication for liver transplantation (MELD score ≥18–20), transplant first and treat after transplantation	В	1
• For waiting time >6 months, treat before transplant (clinical benefit not well established)	В	2
 Treatment is generally not recommended in patients with limited life expectancy due to non- liver-related comorbidities 	В	2

^{*}Individuals who failed to achieve SVR after prior treatment; †Symptomatic vasculitis associated with HCV-related mixed cryoglobulinaemia, HCV immune complex-related nephropathy and non-Hodgkin B-cell lymphoma; ‡Non-liver solid organ or stem cell transplant recipients, HBV coinfection, diabetes



WITH WHAT to treat?

IFN-free / RBV-free combination regimens recommended for each genotype

Genotype	Pangenotypic regimens			Genotype-specific regimens		
	SOF/VEL	GLE/PIB	SOF/VEL/ VOX	SOF/LDV	GZR/EBR	OBV/PTV/r + DSV
1a	Yes	Yes	No*	Yes [†]	Yes [‡]	No
1b	Yes	Yes	No*	Yes	Yes	Yes
2	Yes	Yes	No*	No	No	No
3	Yes§	Yes	Yes	No	No	No
4	Yes	Yes	No*	Yes⁺	Yes¶	No
5	Yes	Yes	No*	Yes⁺	No	No
6	Yes	Yes	No*	Yes⁺	No	No

^{*}Triple combination therapy efficacious but not useful due to the efficacy of double combination regimens;

[†]TN patients without cirrhosis or with compensated (Child–Pugh A) cirrhosis;

[‡]TN and TE patients without cirrhosis or with compensated (Child-Pugh A) cirrhosis with HCV RNA ≤800,000 IU/mL (5.9 Log₁₀ IU/mL);

[§] TN and TE patients without cirrhosis;

TN and TE patients with compensated (Child-Pugh A) cirrhosis;

[¶]TN patients without cirrhosis or with compensated (Child–Pugh A) cirrhosis with HCV RNA ≤800,000 IU/mL (5.9 Log₁₀ IU/mL)



Treatment recommendations for TN or TE patients with CHC without cirrhosis

GT		SOF/VEL	GLE/PIB	SOF/VEL/VOX	SOF/LDV	GZR/EBR	OBV/PTV/r + DSV
1a	TN	12 weeks	8 weeks	No	8–12 weeks	12 weeks (HCV RNA ≤800,00 IU/mL)	No
Id	TE	12 weeks	8 weeks	No	No	12 weeks (HCV RNA ≤800,00 IU/mL)	No
1b	TN	12 weeks	8 weeks	No	8–12 weeks	8 weeks (F0–F2) 12 weeks (F3)	8 weeks (F0–F2) 12 weeks (F3)
	TE	12 weeks	8 weeks	No	12 weeks	12 weeks	12 weeks
2	TN	12 weeks	8 weeks	No	No	No	No
2	TE	12 weeks	8 weeks	No	No	No	No
3	TN	12 weeks	8 weeks	No	No	No	No
3	TE	12 weeks	12 weeks	No	No	No	No
4	TN	12 weeks	8 weeks	No	12 weeks	12 weeks (HCV RNA ≤800,00 IU/mL)	No
	TE	12 weeks	8 weeks	No	No	No	No
5	TN	12 weeks	8 weeks	No	12 weeks	No	No
5	TE	12 weeks	8 weeks	No	No	No	No
6	TN	12 weeks	8 weeks	No	12 weeks	No	No
6	TE	12 weeks	8 weeks	No	No	No	No



Treatment recommendations for TN or TE patients with CHC with compensated cirrhosis (Child-Pugh A)

GT		SOF/VEL	GLE/PIB	SOF/VEL/VOX	SOF/LDV	GZR/EBR	OBV/PTV/r + DSV
1a	TN	12 weeks	12 weeks	No	12 weeks	12 weeks (HCV RNA ≤800,00 IU/mL)	No
Id	TE	12 weeks	12 weeks	No	No	12 weeks (HCV RNA ≤800,00 IU/mL)	No
1b	TN	12 weeks	12 weeks	No	12 weeks	12 weeks	12 weeks
10	TE	12 weeks	12 weeks	No	12 weeks	12 weeks	12 weeks
2	TN	12 weeks	12 weeks	No	No	No	No
2	TE	12 weeks	12 weeks	No	No	No	No
4	TN	12 weeks	12 weeks	No	12 weeks	12 weeks (HCV RNA ≤800,00 IU/mL)	No
	TE	12 weeks	12 weeks	No	No	No	No
_	TN	12 weeks	12 weeks	No	12 weeks	No	No
5	TE	12 weeks	12 weeks	No	No	No	No
	TN	12 weeks	12 weeks	No	12 weeks	No	No
6	TE	12 weeks	12 weeks	No	No	No	No



Treatment recommendations for TN or TE patients with CHC with HCV genotype 3 and compensated cirrhosis (CPA)

	Patients infected	with HCV genotype 3 wi	th compensated cirrh	osis
Availability/		SOF/VEL-bas	sed regimen	GLE/PIB-based regimen
performance of HCV NS5A resistance testing	Results of HCV NS5A resistance testing*	SOF/VEL/VOX available and affordable	SOF/VEL/VOX not available or affordable	GLE/PIB available
Not available/ not performed	-	SOF/VEL/VOX for 12 weeks	SOF/VEL + RBV for 12 weeks	GLE/PIB for 12 weeks in TN or 16 weeks in TE patients [†]
Available and	Presence of Y93H RAS at baseline	SOF/VEL/VOX for 12 weeks	SOF/VEL + RBV for 12 weeks	GLE/PIB for 12 weeks in TN or 16 weeks in TE patients [†]
performed	No Y93H RAS at baseline	SOF/VEL for 12 weeks	SOF/VEL for 12 weeks	GLE/PIB for 12 weeks in TN or 16 weeks in TE patients [†]

^{*}The presence of the NS5A RAS Y93H at baseline is by population sequencing or >15% by deep sequencing;

EASL. J Hepatol 2018; doi: 10.1016/j.jhep.2018.11.004; EASL CPG HCV. J Hepatol 2018;69:461–511.

[†]Data with 12 weeks of treatment with GLE/PIB in TE patients with cirrhosis are needed



Patients with severe liver disease (1)

Recommendations Grade of evidence Grade of rec	commen	dation
 Indications for treatment MELD score <18-20: treat prior to liver transplantation MELD score ≥18-20: 	Α	1
 Transplant first without antiviral treatment and treat HCV infection after transplantation 	В	1
 Treat before transplant if waiting time exceeds 6 months (depending on the local situation) 	В	2
Treatment (MELD score <18–20)		
 SOF/LDV (GT 1, 4, 5 and 6) or SOF/VEL (all genotypes) + RBV* for 12 weeks 	Α	1
PI-containing regimens are contraindicated	Α	1
 Contraindications/poor tolerance to RBV: SOF/LDV (GT 1, 4, 5, 6) or SOF/VEL (all genotypes) for 24 weeks 	Α	1

^{*}Daily weight-based RBV (1,000 mg or 1,200 mg in patients <75 kg or ≥75 kg, respectively); start RBV at a dose of 600 mg daily and adjust dose depending on tolerance





Recommendations		
Post-liver transplant recurrence		
• All patients with post-transplant recurrence shalld be considered for the apy	comme	ndation
 Treatment should be initiated early after transplantation (≥3 months) 	Α	1
Treatments include:		
 SOF/VEL for 12 weeks (all genotypes) 	Α	1
SOF/LDV for 12 weeks (GT 1, 4, 5, 6)	Α	1
 GLE/PIB for 12 weeks (eGFR ≤30 mL/min/1.73 m²; all genotypes)* 	В	1
 SOF/LDV or SOF/LDV + RBV for 24 weeks (decompensated cirrhosis)[†] 	В	1
HCC with an indication for liver transplant		
Liver transplantation must be considered the main therapeutic goal	Α	1
Make treatment decisions on a case by case basis through MDT discussion	Α	1
 HCV treatment can be initiated before or delayed until after transplantation, 	Α	1/2
depending on circumstances		
HCC without an indication for liver transplant		
 HCV treatment should not be withheld but HCC surveillance should be carried out post-SVR 	Α	1
 Use the same DAA regimens as for patients with decompensated cirrhosis without HCC awaiting liver transplantation 		

^{*}Monitor immunosuppressant drug levels and dose adjust;

[†]Daily weight-based RBV (1,000 mg or 1,200 mg in patients <75 kg or ≥75 kg, respectively); start RBV at a dose of 600 mg daily and adjust dose depending on tolerance

CAUTION!

Drug-drug interactions



Recommendations	Grade of evidence	Grade of recomm	mendat	ion
Numerous and complex DDIs are possible of A thorough risk assessment is required in a before starting other medications during tr	II patients prior to startin	ng DAAs and	Α	1
DDIs are a key consideration in treating HIV Close attention must be paid to anti-HIV dr recommended or require dose adjustment	ugs that are contraindica	ted, not	Α	1
 Patients should be educated on the import Adherence to therapy Following dosing recommendations Reporting the use of: Other prescribed medications OTC medications Medications bought via the inter Use of party or recreational drug 	net		Α	1

• Key internet resource: <u>www.hep-druginteractions.org</u>

Follow-up Post treatment



Recommendations Grade of evidence Grade of recom	ımendat	ion
Patients who achieve SVR		
 Discharge patients with no/moderate fibrosis (F0–F2) and no ongoing risk behaviour or other comorbidities 	Α	1
 Monitor for HCC (by US every 6 months) in patients with advanced fibrosis (F3) or cirrhosis (F4) 	Α	1
 In patients with cirrhosis, perform surveillance for oesophageal varices by endoscopy if varices were present at pre-treatment endoscopy (A1)* 		
 Explain risk of reinfection to positively modify risk behaviour 	В	1
Bi-annual/annual monitoring in PWID, MSM with ongoing risk behaviour	Α	1
 Make retreatment available if reinfection is identified during post-SVR follow-up 	Α	1
Untreated patients or patients with treatment failure		
Follow untreated patients and those who failed prior treatment at regular intervals	Α	1
 Carry out non-invasive methods for staging fibrosis at intervals of 1 to 2 years 		
Continue HCC surveillance every 6 months indefinitely in patients with advanced	Α	1
fibrosis and cirrhosis	Α	1

^{*}Index variceal bleed seldom seen in low-risk patients after SVR (unless additional causes for ongoing liver damage are present and persist)



Special groups

Treatment: who, with what, how, follow-up

- HBV-HCV coinfection
- Immune-complex mediated manifestations of CHC
- Patients with renal impairment, including haemodialysis
- Non-hepatic solid organ transplant recipients
- Recipients of an HCV+ organ transplant
- Haemoglobinopathies and bleeding disorders
- Adolescents and children
- PWID and patients receiving OST



PWID and patients receiving **OST**

Recommendations Grade of evidence Grade of recommendations	ommen	dation
Test routinely and voluntarily for anti-HCV Abs and HCV RNA; test HCV RNA annually and following any high-risk injecting episode	А	1
Provide appropriate access to OST and clean drug injecting equipment as part of widespread comprehensive harm reduction programs, including in prisons	А	1
All HCV-infected PWIDs have an indication for antiviral therapy; DAA-based therapies are safe and effective in HCV-infected patients receiving OST, those with a history of IDU and those who recently injected drugs	Α	1
HCV treatment should be offered to HCV-infected patients in prison	В	1
Pre-therapeutic education: include discussions of HCV transmission, risk factors for fibrosis progression, treatment, reinfection risk, and harm reduction strategies	В	1
In patients on OST, DAA-based anti-HCV therapy does not require methadone or buprenorphine dose adjustment	А	1
Provide harm reduction, education and counselling to prevent HCV reinfection following successful treatment	В	1
Monitor after SVR in PWID with an ongoing risk behaviour*	Α	1
Retreat if reinfection identified during post-SVR follow-up	Α	1

^{*}Ideally bi-annual or at least annual HCV RNA assessment



Adherence

Measures to improve it

Recommendations Grade of evidence Grade of reco	mmenda	tion
HCV treatment should be delivered within a MDT setting, with experience in HCV assessment and therapy	А	1
HCV-infected patients should be counselled on the importance of adherence for attaining an SVR	А	1
Social support services should be a component of HCV clinical management for patients with socioeconomic disadvantages, migrants	В	1
Peer-based support and patient activation assessment are recommended to improve HCV clinical management	В	2
Patients with harmful alcohol consumption should receive additional support during antiviral therapy	В	1



Simplification

Treatment of chronic hepatitis C

Recommendations Grade of evidence Grade of recom	nmendat	ion
 Pre-treatment assessment Proof of HCV replication (presence of HCV RNA or of HCV core antigen) Assessment of cirrhosis by simple non-invasive markers (e.g. FIB-4 or APRI)* 	В	1
Treatment - pangenotypic		
 TN and TE patients[†] (without cirrhosis/with compensated cirrhosis) 		
 Fixed-dose SOF/VEL for 12 weeks 	В	1
 Fixed-dose GLE/PIB (8 weeks without cirrhosis;[‡] 12 weeks with cirrhosis) 	В	1
 Generic drugs can be used, provided quality controls met and guaranteed 	Α	1
 Check possible DDIs and implement dose modifications when necessary 	Α	1
Follow-up		
 Checking SVR12 after EOT is dispensable (given high expected SVR12 rates) 	В	1
 Test patients with high-risk behaviour/reinfection risk for SVR12 and yearly where possible 	В	1
 HCC surveillance (when treatment for HCC is available) in patients with advanced fibrosis (F3) or compensated cirrhosis (F4) 	Α	1

^{*}Determines whether the patient needs post-treatment follow-up; †Without testing genotype; ‡If cirrhosis can be reliably excluded by means of a non-invasive marker in TN patients, fixed-dose combination GLE/PIB can be administered for 8 weeks only (A1)



Simplification

Treatment of chronic hepatitis C

Recommendations	Grade of evidence	Grade of recommenda	tion
 Pre-treatment assessment Proof of HCV replication (presence of HCV Assessment of cirrhosis by simple non-invalidation) 	asive markers (e.g. FIB-4		
Treatment - pangenotypic TN and TE patients† (without cirrhosis/with Fixed-dose SOF/VEL for 12 weeks Fixed-dose GLE/PIB (8 mm) Generic drugs Check	CCOMPLIS	Reed A A A	1 1 1
mance (when treatment for HCC wrosis (F3) or compensated cirrhosis (F4)	nfection risk for SVR12 and C is available) in patients w	d yearly where B	1 1

^{*}Determines whether the patient needs post-treatment follow-up; †Without testing genotype; ‡If cirrhosis can be reliably excluded by means of a non-invasive marker in TN patients, fixed-dose combination GLE/PIB can be administered for 8 weeks only (A1)

EASL CPG HCV. J Hepatol 2018;69:461–511.

The global burden of HBV and HCV infections: A public health problem

	HBV	HCV
Chronically infected	257 million	71 million
Infection diagnosed	9%	20%
Infection treated	8%	7 %

A path to global elimination of HCV

In 2017 we had:

- the biomedical tools that make elimination possible (DAAs)
- a global strategy to eliminate HCV (WHO)
- strong interest among many stakeholders in carrying it out



PUBLIC HEALTH

- **PPHC (EASL Policy&Public Health Committee)** - organised by the European Policy Councillor and supports
 - his duties
- **EASL International Liver Foundation**
- The LANCET-EASL Commission on liver diseases in Europe



EASL International Liver Foundation

Founded in 2017

Mission:

A foundation that could complement EASL's mission and increase its outreach in various arenas worldwide - fundraise to reach complementary, yet common, objectives

Program areas:

- foster scientific research
- provide educational services to an audience beyond the traditional EASL target groups and include the general public
- promote disease awareness and healthcare interventions



EASL International Liver Foundation

	EASL	EILF
Orientation	Members	Societal
Project scope	Short-medium term	Long term
Geographical scope	European	Global
Fundraising	Pharmaceutical	Philanthropic
Research grants	Fellowships	Programmes
Education	Topic oriented	Capacity building



The LANCET-EASL Commission on liver diseases in Europe

Founded: in 2018

Mission:

- **identify key challenges and opportunities** for tackling the increasing health burden and the changing and diverse landscape of liver diseases in Europe
- quantify the burden of liver disease in Europe and addressing optimal diagnosis and standards of care for patients with liver diseases – closing the gaps between primary and secondary care physicians

Program areas:

- address optimal standards of care for patients with liver diseases
- tackling inequity throughout European countries, both for patients and clinical and research infrastructure
- the role of specialty groups beyond hepatology in the multidisciplinary management of liver diseases
- improve awareness and education of primary care physicians; and overcoming the stigmatisation of patients with liver diseases.



PUBLIC HEALTH

Micro-elimination

Position statements for viral hepatitis

HEPAHEALTH





Micro-elimination A NEW treatment strategy by EASL (in 2017)

EASL suggested to fight the HCV elimination challenge by setting micro-elimination goals

- break down national elimination goals into smaller goals for individual population segments, for which treatment and prevention interventions can be delivered more quickly and efficiently using targeted methods
- achieve the WHO targets in specific sub-populations, settings, generational cohorts or geographic areas
- most high-income countries have already begun micro-elimination for at least one group, by rightly prioritising people with advanced liver disease.





Micro-elimination Target groups

Patients with advanced liver disease

Haemophilia patients

Prisoners

Children

Patients engaged with drug treatment units

Migrant communities from high prevalence regions

People who inject drugs in networks

Men who have sex with men

Generational cohorts of high prevalence

Geographically defined areas

Micro-elimination Approach





- a PLAN for how to tailor health resources and services to overcome known barriers and achieve high levels of HCV diagnosis and treatment in one or more clearly definable populations of interest within a specified timeframe
- the plan sets forth achievable annual targets, basing these on mathematical modelling when relevant to determine the levels of diagnosis and treatment required to progress to the plan's ultimate elimination targets
- the plan is developed and implemented through a multi-stakeholder process, with essential participants including government officials, health service providers, and civil society representatives
- progress and outcomes are monitored and publicly reported using indicators selected at the outset of the process.



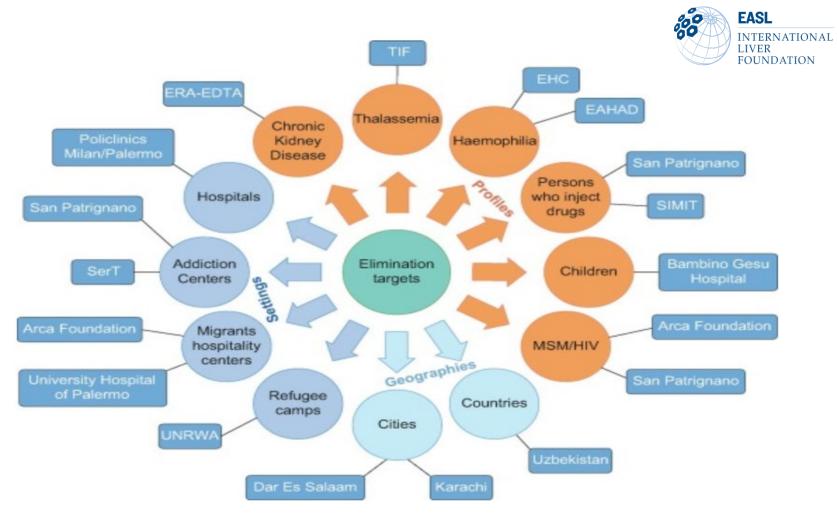




- Realistic targets/goals
- Pragmatic
- Defined timeline to achievements
- Tailored strategy
- Defined costs
- Prevention of re-infection
- Provides programatic development templates

The viral hepatitis micro-elimination network orchestrated by the EILF







Position statements on viral hepatitis

POLICY AND PUBLIC HEALTH COMMITTEE (PPHC)



The aim of this policy statement from the European Association for the Study of the Liver (EASL) is to inform policy-makers, health care professionals, affected communities and patients that hepatitis C can- and should- be eliminated as a public health threat by 2030, or even earlier as could be the case in many central and western European countries. We believe that medical associations and clinicians, in collaboration with other key stakeholders, such as patients and affected communities, play a critical role in eliminating HCVas a public health threat and we commit to working with the HCV community to do so.



Key messages

EASL recommends that:

- All European countries develop a comprehensive hepatitis C national strategy or action plan to:
 increase awareness throughout the population and to ensure appropriate preventive measures;
 offer testing; provide linkage to care, treatment and follow-up ofpatients in line with the WHO
 Global Health Sector Strategy on Viral Hepatitis and the WHO Action Plan for the health sector
 response to viral hepatitis in the WHO European Region (2017);
- All European countries adopt EASL recommendations on the management of hepatitis C, where it is stated that every hepatitis C patientshould be considered for treatment, and that treatment should be initiated with DAAs;
- DAAs be globally available at reasonable prices, to avoid any further reimbursement restrictions, and to allow governments to implement a comprehensive elimination strategy.



Eliminating Hepatitis C — An Action Plan



Globally, there are an estimated 71 million people actively infected with HCV, and 11-14 million of these reside in Europe

EASL Recommends:

Increasing awareness amongst
HCPs, patients, policy
media and the public
(especially high risk groups),
whilst combating the stigma and

- 2 Stitute (Jude) I statis essettiated
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- Making DAAs available at reasonable prices, to avoid any further reimbursement restrictions and to allow governments to implement a pappathgraticeslipinetiament and surgey increasing the number of
 - promoting telemedicine and by increasing input from AHPs during and after treatment Treating every Hepatitis C patient at

authorised prescribers,

- the earliest opportunity,
 especially those at high risk
- Providing rapid testing, in all relevant settings, with priority given to high -risk persons



Recommendations

EASL supports World Health Assembly resolution 67.6 (8) calling on all countries to develop viral hepatitis strategies and recommends that such strategies should now have the goal of eliminating hepatitis C as a public health threat by the year 2030. National action plans should specifically mention this goaland should be costed and comprehensive, i.e. covering all steps of the continuum

Prevention

EASL supports the United Nations General Assembly resolution (11) on harm reduction in all settings to prevent HCV transmission. Both healthcare personnel and the general population should be made aware of the different transmission modalities, and of the most effective preventive measures. As there is no prophylactic vaccine, the implementation of harm reduction strategies (e.g. access to opioid substitution therapy and safeinjecting equipment for people who inject drugs, safe sex, and increased awareness among all high-risk populations, including prisons) should be increased, while at the same time combating the stigma and discriminationthat is associated with HCV infection. Preventive measures should also be encouraged in those cured, as a successful treatment does not protect from reinfection.



Testing for hepatitis C

EASL advocates the use of rapid point-of-care tests, including for <u>viremia</u>. These assays should be implemented in all relevant settings. Screening should include testing for HIV and the hepatitis B virus, as these two pathogens are often transmitted together with HCV, and priority should be given to persons engaging in high-risk practices. General practitioners and drug and alcohol specialists should be informed about the importance of testing members of these groups. Screening strategies other than risk-based (such as those targeting birth cohorts or even the general population) should be evaluated in regard to their cost-effectiveness and feasibility, depending on the local epidemiology. Countries should take actions to avoid late presentation and diagnosis (4) by increasing testing in non-hospital settings, such as addiction and harm reduction services and prisons.

Linkage to care

Linkage to care should be facilitated by increasing the number of authorized prescribers if needed, by promoting telemedicine-based clinical case discussion and decisions, and by an increased involvement of peers and mid-level providers in the continuum of care, during and after treatment.



Treatment

Countriesshould focus on removing anyexisting reimbursement restrictions, as theyimpede access to DAAs, in line with EASL recommendations on the treatment of hepatitis C (5). Payers and providers must recognize the advantage of treating HCV infection early, to prevent later disease development and onward transmission. Treating hepatitis C patients early will reduce costs related to monitoring disease progressionand improve the quality of life for patients as well asreduce loss of work productivity. On the other hand, treating at advanced disease stages will require continued care, even after achievement of cure, to monitor for the development of liver cancer. Treatment should be expanded to shared care between specialists and addiction centers, prisons and other relevant settings. The positive effect of DAA therapy on morbidity and mortality should be described at the national level, to support policy-makers in increasing access to DAA therapy. Special attention should be devoted to retreat those patients who get re-infected after achieving SVR, since they are likely to be engaging in high-risk practices and therefore contributing to onward transmission. Payers and the pharmaceutical industry should agree on price reductions, ashas been the case in numerous European countries.

EASL believes that medical associations and clinicians, in collaboration with other key stakeholders, play a critical role in eliminating HCVandwe will continue to work on the implementation of the WHO viral hepatitis strategy and our guidelines to ensure that hepatitis C virus elimination in Europe by 2030 will become a reality.

Screening of blood donations for Hepatitis E virus (HEV)

Transmission of HEV: Contaminated drinking water Infected pork Fruit and vegetables HEV containing blood products

EASL Recommends:

EASL recommends that
donations should be tested for
HEV RNA by nucleic acid testing
(NAT) to reduce the risk of
transfusion transmitted

blood

HEV screening should ideally include all blood donations but, if this is not feasible, a selective screening should be performed for blood products used in immunocompromised patients such as organ transplant recipients

The Home of Hepatology



Liver Disease and Migrant Health



In 2017, six hundred and fifty thousand first-time asylum seekers applied for international protection in the Member States of the EU.

EASL Recommends:

language to help facilitate

sources of such as overcr	remove preventa Hepatitis A owding, unsafe fo	infection ood	European Association for the Study of the Liver
facilities arrive include to curative	HBV and HCV treatment	programme , and early acces for all	to
suppressive th	or adequate long erapy when need ctive provision of out the risk of alcohol		-term
	on their reat migrants ed in discussions	on	- who
development of inclusion progr	specf mighamis' ចំរប់សាខាពdrthe f training and ammes for migra	nt	
rights to seek huse of cultural	grate quickly into dheiathostablete nealthcare and th mediators to n the migrant's o		

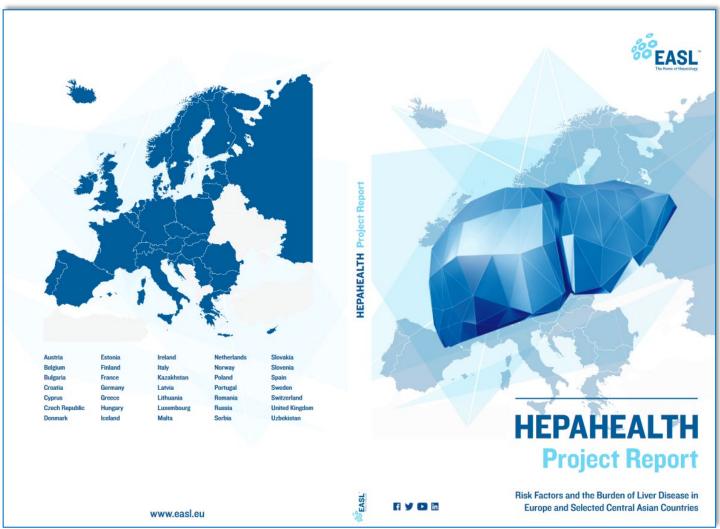
EASL/ILC 2019. Vienna, April 14, 2019.



HEPAHEALTH I, II, III

- Epidemiologic data repository on liver disease burden
 - to have data to be presented to politicians
- Micro Simulation Model to examine:
 - synergies between risk factors for liver disease
 - the impacts of potential interventions
- Establish a liver observatory
 - to have real data from sentinel countries
- Relating data with the attributable fraction studies
 - collaboration with WHO and ECDC







EASL International Liver Foundation - a partner in viral hepatitis elimination in Georgia

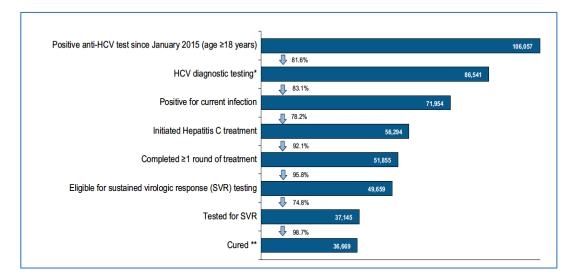
Editorial

JOURNAL OF HEPATOLOGY

Excellence in viral hepatitis elimination – Lessons from Georgia

Francisco Averhoff¹, Jeffrey V. Lazarus^{2,3}, David Sergeenko⁴, Massimo Colombo³, Amiran Gamkrelidze⁵, Tengiz Tsertsvadze⁶, Maia Butsashvili⁷, David Metreveli⁸, Lali Sharvadze⁹, Margaret Hellard¹⁰, Stefano Gnes³, Tamar Gabunia⁴, Muazzam Nasrullah^{1,*}

¹Centers for Disease Control and Prevention, Division of Viral Hepatitis National Center for HIV, Hepatitis, STD and TB Prevention, Atlanta, USA;
²Barcelona Institute for Global Health (ISGlobal), Hospital Clinic, University of Barcelona, Barcelona, Spain;
³European Association for the Study of the Liver (EASL) International Liver Foundation, Geneva, Switzerland;
⁴Mnistry of Internally Displaced Persons from the Occupied Territories, Labour, Health, and Social Affairs of Georgia, Tbilisi, Georgia;
⁵National Center for Disease Control and Public Health of Georgia, Tbilisi, Georgia;
⁶Infection Diseases, AIDS, and Clinical Immunology Research Center, Tbilisi, Georgia;
⁷Neolab, Tbilisi, Georgia;
⁸Medical Center Mrcheveli, Tbilisi, Georgia;
⁹Joint Georgian-French Hepatology Clinic Hepa, Tbilisi, Georgia:
¹DBurnet Institute, Melbourne, Australia



April 2015 - April 2019:

36,098/37,582 (**96.1%**) achieved **SVR**1,327 initiated 2° round of Tx
with 94.2% SVR





CONCLUSIONS

- EASL Hepatitis treatment strategies are oriented towards elimination of viral hepatitis as a public health treat
- Elimination goals are to be reached through the EASL activities on a patient and public health level
- Several projects towards elimination of viral hepatitis have been going on under the umbrella of EASL



THE INTERNATIONAL LIVER CONGRESS**

15-19 April 2020 London, UK



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