









Respect

Qualité

Solidarité

Innovatie

Engagement

National Hepatitis plan



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Clinic of Hepatology

Department of Hepato-Gastro-entrology







National hepatitis Plan

- Hepatitis B: plan non-existent.
 - People's migration from endemic countries.
 - Reimbursement of treatment not adapted to the reality.
 - Cirrhotic patient with normal transaminases.
 - Prevention of Perinatal HBV Transmission (High viral load).
 - HBV reactivation on chemotherapy and immunosuppressive therapy
- Hepatitis C: plan available.
- Hepatitis Delta: plan non-existent
 - People's migration from east European countries.
 - Treatment not reimbursed.







FEDERALE OVERHEIDSDIENST VOLKSGEZONDHEID, VEILIGHEID VAN DE VOEDSELKETEN EN LEEFMILIEU

[C - 2014/24267]

Protocolakkoord 'HCV-Plan'

SERVICE PUBLIC FEDERAL SANTE PUBLIQUE, SECURITE DE LA CHAINE ALIMENTAIRE ET ENVIRONNEMENT

[C - 2014/24267]

Protocole d'Accord 'Plan VHC'

 In June 2012, an inter-ministerial conference decided to adopt a plan of action against Hepatitis C.



- Published and brought out by the minister of Health on 8 August 2014.
- Developed through collaboration between government, hepatologists, HIV specialists, patients groups, Harm reduction groups, professional groups of gastroenterologists.
- Goals of the plan:
 - Reduce transmission.
 - Increase the number of HCV+ patients aware of their diagnosis.
 - Enhance patients' care pathway and quality of live.







Hepatitis C plan Belgium 2014-2019

6 strategic axis

- 1. Prevention
- 2. Testing
- 3. Linkage to care and Health care pathway
- 4. Hep A and Hep B vaccination
- Scientific Research.
- 6. Epidemiologic follow-up.







HCV plan (12/05/2014): 22 actions

- Prevention
- 1.Inform and sensibilize
- 2. Enforce the capacities of psychiological/medical/social actors
- 3. Develop prevention
- Screening
- 4. Develop a national HCV screening strategy
- 5. A HCV blood test in the hospital
- 6. Better inform GP's
- 7. Inform the population on risks and screening
- 8.Retest after cure with PCR in certain risk groups
- 9.Organise a follow up plan for detected cases
- Healthcare pathway: linkage to care and treatment
- 10. Develop a HCV expertise network
- 11. Reimbursement should not be dependent on a biopsy.

- 12. Minimalize the administrative burden for treatments.
- 13. Take into account the children.
- 14. Evaluation of fibrosis regarding international guidelines
- 15. Develop a national point for information
- 16. Enforce the capacities of phychologica/medical/social actors
- 17.Drugs delivery by hospital pharmacies
- 18.Speed up access to new HCV medication
- 19. More rationale on PCR testing
- Vaccination
- 20. Vaccination HAV en HBV
- Clinical Research
- 21. Support further research in HCV
- Epidemiologic follow-up
- 22. Database with HCV pos patients







Prevention

- 1. Inform and raise awareness on prevention.
- 2. Enforce the capacities of psychological, medical and social actors.
- 3. Develop prevention.









Prevention

- Lack of good prevalence data by groups.
- Lack of government support to develop awareness campaigns.
- HCV not regarded as a priority for education programs for physicians.
- Awareness levels of general population, high prevalence groups and GP's are not measured.
- Low GP's awareness about current treatment effectiveness.
- ✓ Strong harm-reduction programs.







Prevention





Screening

- 4. Develop a national HCV screening strategy.
- 5. Offer a HCV blood test in the hospital (free and anonymous).
 - Helpcenter Antwerpen, Elisa Bruxelles, CHU de Lìege.
- 6. Better inform GP's.
- 7. Inform the population on risks and screening.
- 8. Retest after cure with PCR in certain risk groups.
- 9. Organize a follow up plan for detected cases.







Screening









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10. Develop a HCV expertise network.

 HCV Working group meetings to plan the future of HepC care between nov/14 and April/15.

The Disease Burden of Hepatitis C in Belgium : An update of a realistic disease control strategy

P. Stärkel¹, D. Vandijck²³, W. Laleman⁴, P. Van Damme⁵, C. Moreno⁶, S. Blach⁷, H. Razavi⁷, H. Van Vlierberghe⁸

(1) Cliniques Universitaires Saint-Luc, Université Catholique de Louvain (UCL), Brussel, Belgium; (2) Ghent University, Ghent, Belgium; (3) Hasselt University, Dept. of Health Economics & Patient Safety, Diepenbeek, Belgium; (4) University Hospitals Leuven, KU Leuven, Leuven, Belgium; (5) Universiteit Antwerpen, Antwerpen, Belgium; (6) Erasme University Hospital, Université Libre de Bruxelles, Brussels, Belgium; (7) Center for Disease Analysis (CDA), Louisville, Colorado, USA; (8) Ghent University Hospital, Ghent, Belgium.

Achieving WHO recommendations for Hepatitis C Virus Elimination in Belgium

Stefan Bourgeois¹, Sarah Blach², Christian Brixko³, Wim Laleman⁴, Catharina Mathet⁵, Jean-Pierre Mulkay⁶, Homie Razavi², Geert Robaeys^{7,8,9}, Peter Stärkel¹⁰, Pierre Van Damme¹¹, Hans Van Vlierberghe¹², Dominique Vandijck^{13,14}, Christophe Moreno¹⁵

(1) ZNA Campus Stuivenberg, Antwerp, Belgium; (2) Center for Disease Analysis, Louisville, CO, USA; (3) Department of Gastroenterology and Digestive Oncology, CHR Citadelle, Liege, Belgium; (4) University Hospitals Leuven, KU Leuven, Leuven, Belgium; (5) Department of Public Health and Primary Care, University Hospitals Leuven, KU Leuven, Leuven, Belgium; (6) Hepato-gastroenterology, CHU Saint-Pierre, Brussels, Belgium; (7) Department of Gastroenterology and Hepatology, Ziekenhuis Oost-Limburg, Genk, Belgium; (8) Faculty of Medicine and Life Sciences, Hasselt University, Diepenbeck, Belgium; (9) Department of Hepatology, UZ Leuven, Leuven, Belgium; (10) Cliniques Universitaties Saint-Luc, Université Catholique de Louvain (UCL), Brussels, Belgium; (11) Universiteit Antwerpen, Antwerpen, Belgium; (12) Ghent University Hospital, Ghent, Belgium; (13) Ghent University, Chent, Belgium; (14) University Dept. of Health Economics & Patient Safety, Diepenbeck, Belgium; (15) UB Höpital Eramse, Université Libre de Bruxcelles, Brussels, Belgium;

Mitigating the burden of hepatitis C virus among people who inject drugs in Belgium

Catharina Matheï¹, Stefan Bourgeois², Sarah Blach¹, Christian Brixko⁴, Jean-Pierre Mulkay⁵, Homie Razavi², Geert Robaeys^{6,7,8}

(1) Department of Public Health and Primary Care, University Hospitals Leuven, KU Leuven, Leuven, Belgium; (2) ZNA Campus Suivenberg, Antwerp, Belgium; (3) Center for Disease Analysis, Louiville, CO, USA; (4) Department of Gastroenterology and Digistive Oscology, CRI Chaldelle, Liege, Belgium; (5) Edistroenterology, CRIU Saint-Pierre, Brussels, Belgium; (6) Department of Gastroenterology and Hepatology, Zilekentulis Osst-Limburg, Genk, Belgium; (7) Faculty of Medicine and Life Sciences, Hasselt University, Direcenbeck, Belgium; (8) Department of Hepatology, UZ Leuven, Leuvenburg, CRIP, Limburg, CRIP, C









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 - Either a liver biopsy, or
 - Either one elastography test (Fibroscan, Shear wave elastography or ARFI).
 - + one biological fibrosis score (Fibrotest, FIB-4, APRI).
 - Maximum age of elastography and lab values: 1 year.
 - Results to be kept in file of patient.







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- 19. More rationale on PCR testing (labeled centers).











Vaccination

20. Vaccination HAV and HBV.

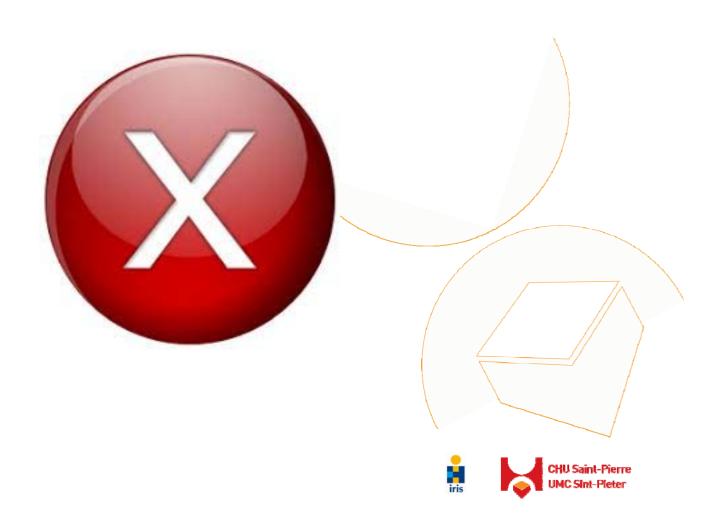
- Implemented and recommended > 20 years.
- Specific populations.
 - Infants and children.
 - Hemophiliacs.
 - Hemodialysis patients.
 - Candidates for organ transplants.
 - Family members
 - Unvaccinated teenagers.
 - Mentally handicapped.
- Health workers.
- PWID ??







Vaccination





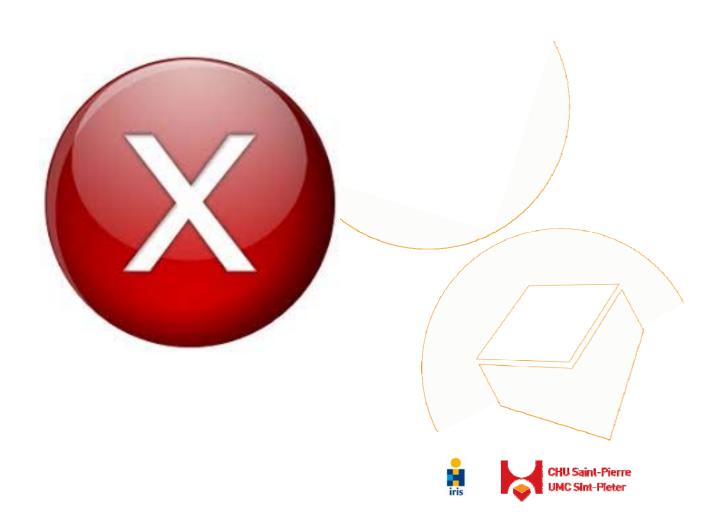
Clinical research

21. Support further research in HCV





Clinical research





Epidemiological follow-up

22. Database with HCV positive patients.





Epidemiological follow-up





HCV plan (12/05/2014): 22 actions

• <u>Prevention</u>



1.Inform and sensibilize



2. Enforce the capacities of psychiological/medical/social actors



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Screening



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5. A HCV blood test in the hospital



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Clinical Research



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Hepatitis C plan: 2017

6/22 27%







ROAD TO ELIMINATION: BARRIERS AND BEST PRACTICES IN HEPATITIS C MANAGEMENT

Overview of the status of HCV care in Europe and Australia



BCG

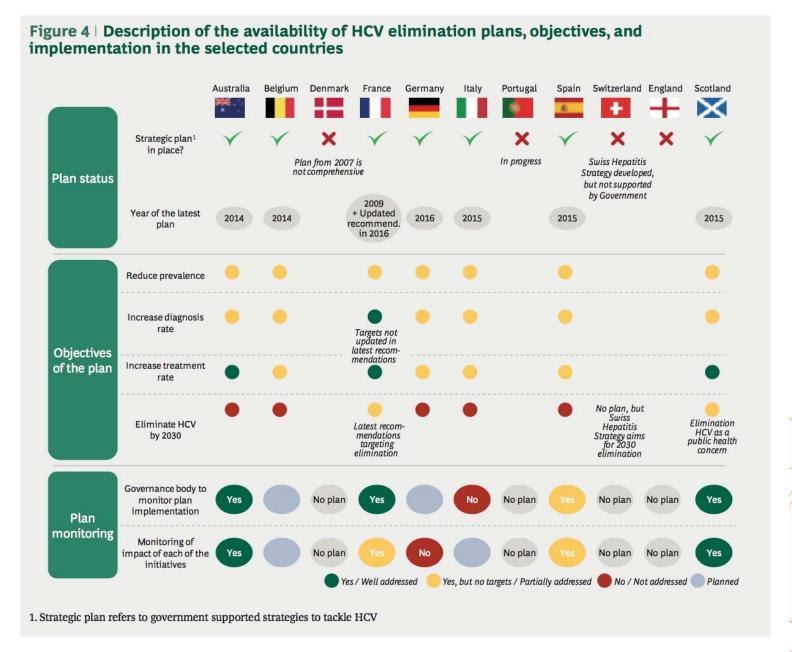
THE BOSTON CONSULTING GROUP

Boston Consulting Group













Awareness and prevention "Network-based approach" to increase awareness and reach out through educating and training peers of those at risk Awareness campaigns targeting common settings of high prevalence groups (e.g. included within harm reduction programs) ** Strong government support of campaigns targeting high prevalence groups' awareness × Strong third-sector support of campaigns targeting high prevalence groups' awareness .

Well developed screening programs for key high **HCV** trainings provided to prevalence groups support professionals in

risk factors

e.g. PWID and ex-PWID

• e.g. Routine screening of all prisoners, and PLHIV

Testing and diagnosis

" | **X** | + | | |

Screening and diagnosis

Testing sites extended to

multiple settings, focused on

Free and anonymous testing

Initiatives to increase health

care professionals' knowledge

of HCV and identification of

offered to all patients

those used by high prevalence

prioritized within high

prevalence groups

groups

Programs to reduce dropout in testing process (e.g. unique sample screening methods of blood samples)

Linkage to care, access to qualified health services

HCV treatment delivered in addiction clinics

HCV treatment delivered within prison facilities

Well developed and integrated programs for PWID and PLHIV, integrating HCV testing

Good referral system in place within National Healthcare Service

Direct access to specialists

Wide range of doctors able to prescribe treatment, including **PCPs**

PCPs able to provide treatment in their office if approved by specialist

Access to medication

Although not broad access, DAA coverage for some key risk groups patients regardless of their fibrosis level

No drug or alcohol consumption restrictions to access treatment

DAA coverage for all patients regardless of their level of fibrosis

Full treatment coverage by national health care system. with no co-payment requirements

Risk-sharing (e.g. funding caps) and price-volume agreements lead to significant discounts in treatment costs

Availability and management of funding for DAAs at national level

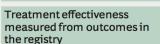
Monitoring and evaluation

Mandatory reporting of all **HCV** diagnosed patients



HCV registry tracking all patients to monitor progress

- Database with all diagnosed patients \sim
- Registry with all patients eligible for DAA treatment



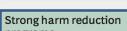




Promotion of campaigns with prevention as a priority message

* |

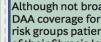
contact with HCV patients







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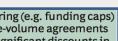
and support in clinics



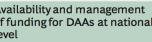
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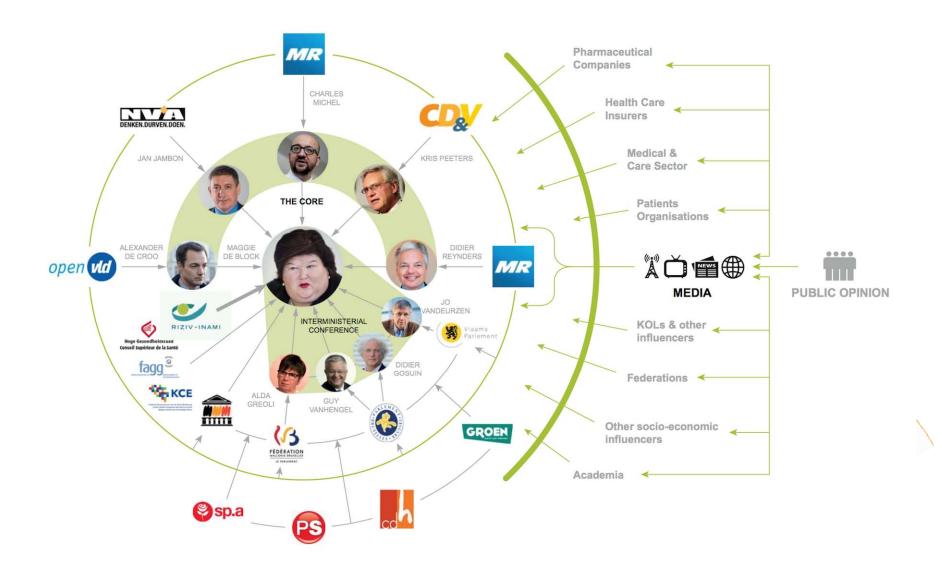


















Belgian health care system

- In Belgium, responsibilities for health policy are shared between the federal level and the federated entities (regions and communities).
- The federal level is responsible
 - for the regulation and financing of compulsory health insurance;
 - the determination of accreditation criteria (that is, minimum standards for the running of hospital services);
 - the financing of hospital budgets and heavy medical equipment (e.g. CT and MRI scanners);
 - legislation covering different professional qualifications;
 - the registration of pharmaceuticals and their price control.
- The level of federated entities (regions and communities) governments are responsible
 - for health promotion and prevention;
 - maternity and child health services;
 - different aspects of elderly care, home care,
 - Coordination and collaboration in primary health care and palliative care;
 - the implementation of accreditation standards and the determination of additional accreditation criteria
 - the financing of hospital investment.







Conclusions

- National plan is a good project.
- It is essential for actions
 - To be well-defined
 - To include clear accountabilities, timelines, budgets, and key performance indicators.
- Wake-up authorities particularly federated entities.

Treatment without prevention and screening It makes no sense!!!

















EASL 2017 Clinical Practice Guidelines on the management of hepatitis B virus infection[☆]

European Association for the Study of the Liver*

Cirrhosis

Compensated	Treat regardless of ALT, especially if HBV DNA >2000 UI/ml.
Decompensated	Treat regardless of ALT and HBV DNA.











EASL 2017 Clinical Practice Guidelines on the management of hepatitis B virus infection^{**}

European Association for the Study of the Liver*

- All candidates for chemotherapy and immunosuppressive therapy should be tested for HBV markers prior to immunosuppression (Evidence level I, grade of recommendation 1).
- All HBsAg-positive patients should receive ETV or TDF or TAF as treatment or prophylaxis (Evidence level II-2, grade of recommendation 1).
- HBsAg-negative, anti-HBc positive subjects should receive anti-HBV prophylaxis if they are at high risk of HBV reactivation (Evidence level II-2, grade of recommendation 1).







EASL, AASLD and APASL Guidelines

Guidelines	HBeAg Positive			HBeAg Negative		
	HBV DNA, IU/mL	ALT	Liver Biopsy Results	HBV DNA, IU/mL	ALT	Liver Biopsy Results
AASLD 2016	20,000	≥2xULN	N/A	> 2000	≥2xULN	N/A
APASL 2016	10] > 20,000	> 2 x ULN	N/A	> 2000	> 2 x ULN	N/A
EASL 2017[4]	* > 2000	> ULN*	At least moderate necroinflammation and/or fibrosis*	> 2000	> ULN*	At least moderate necroinflammation and/or fibrosis*
	> 20,000	> 2 x ULN	N/A	> 20,000	> 2 x ULN	N/A

N/A, not applicable.

^{*}In patients with HBV DNA > 2000 IU/mL, treatment indicated if ALT > ULN and/or at least moderate fibrosis.





