Identification and management of persons with chronic viral hepatitis in Europe

Country sessions

The Netherlands

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Burden of disease

- HBV and HCV notifiable in Public Health Law
 - HBV: acute and chronic (since 1976)
 - ≈250 acute and ≈1500 chronic cases per year
 - HCV: since 1999 acute+chronic, since 2003 acute only
 - acute cases per year 34 in 2004 to 52 in 2009
- Prevalence data
 - HBV: 0.2% (Nationwide seroprevalence study 1995)
 - HBV: 0.3-0.4% (Pregnancy screening)
 - HBV: 0.4% (Amsterdam N=1300)
 - HCV: 0.01% (Nationwide seroprevalence study 1995)
 - HCV: 0.2% (Regional study N=2200)

Screening strategy

Hepatitis B

GOALS

- Pregnancy screening (since 1989)
 - Primary prevention to newborns
- Risk groups: drug users, MSM, sex workers, heterosexuals with multiple contacts (up to 2007)
 - Screening prior to vaccination, identify susceptibles
- Contact screening
 - Vaccination of susceptible contacts
 - Identification of new HBsAg infections
- Screening of migrants (Chinese and Turks, 3 cities)
 - Indentify and treat eligible patients (secondary prevention)

Screening strategy

GOALS

Hepatitis C

- Risk groups: drug users (≈since 2004)
- General public: pilot projects 2007/2008
- National Hepatitis C Campaign (Sept 2009-Feb 2010)
 - General public:
 - Blood transfusion before 1992
 - Use of ever used hard drugs
 - Born in endemic country
- → Goal: Secondary prevention

Target population

Pregnant women

MSM / sex workers

Drug users

Heterosexuals >partners

Contacts of cases

General public

Chinese

Turks

Identification proces

Antenatal care

Outreach / STI clinic

Drug users services

STI clinic

Public Health Service

Information campaign

Campaign

Campaign

Implementation

Nationwide

- Pregnancy screening (HBV)
- Contact screening (HBV)
- Risk groups as part of vaccination campaign (HBV)
- HCV Campaign

Regional pilots

- Chinese (Rotterdam 2009, The Hague 2010)
- Turks (Arnhem 2009, Rotterdam 2010)

Results

- Pregnancy screening
 ≈950 HBsAg positive women per year
- Risk groups; 5 year period (2002-2007)

	1st vac	HBsAg+ (%)
MSM	18,510	≈148 (0.8)
DU	13,482	≈94 (0.7)
CSW	9,391	≈94 (1.0)
Heterosex	39,297	≈236 (0.6)
Total	80,680	≈565 (0.7)

Results

- Follow up of identified HBsAg positives in pregnancy screening and risk group campaign unknown
- Contact tracing HBV: results not reported and follow up unknown
- National HCV Campaign: no results yet
- HCV drug users, results project Rotterdam:
 - 293 screened in 2 years
 - 81 HCV RNA+
 - 64 referred for treatment, 35 started treatment

Results

- Pilot Chinese population in Rotterdam
 - 1,100 tested
 - 94 HBsAg+ (8.5%)
 - 32 HBeAg+ or elevated ALT (34% of HBsAg+)
 - 18 eligible for antiviral treatment (19% of HBsAg+)
- Pilot Turkish population in Arnhem
 - 709 tested
 - 18 HBsAg+ (2.8%), 2 HCV 0.3%
 - Clinical follow up ongoing

Costs of screening programme and the follow up

Payment of the screening programme

Payment of follow-up

National programmes:



Government

Pilots:



Different sources

(pharmaceutical companies, own contribution PHS and hospital, health insurance)

Patient invited for intake at Public Health Service



Government

Further health care



Medical insurance

Treatment strategies

Hepatitis B

- Guideline for referral from primary to secondary care
 - HBeAg+ and/or elevated ALT → to specialist
 - Follow up by GP when HBeAg- and normal ALT
- Treatment according to clinical guidelines (2008)
 - Initial evaluation: viral load, biochemistry, imaging
 - Consider PEG-INF
 - Low resistance nucleos(t)ide analoge
- Treatment covered by health insurance

Treatment strategies

Hepatitis C

- Guideline for referral from primary to secondary care
 - All patients to specialist
- Treatment according to clinical guidelines (2008)
 - Consider treatment for all patients
 - Take genotype into account
 - PEG-INF and ribavirine
- Treatment covered by health insurance

Impact of the screening strategy on the health care system

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Limited impact on health system as number of patients detected is low

Impact on health difficult to assess due to limited follow up

Evaluation of screening, follow-up and treatment strategy

Strengths

Pregnancy screening

→ good coverage

Risk groups

→ high prevalence

Migrants

→ high prevalence

Challenges

Pregnancy screening

→ follow up not good

Risk groups

→ low coverage

Migrants

→ only local initiatives

Evaluation of screening, follow-up and treatment strategy

Lesson learnt/ opportunities

- Improve referral from primary to secondary care
- Pregnant women
 - Refer to specialist before third trimester
- Migrants can be reached through outreach campaign
 - → study systematic approach

Evaluation of screening, follow-up and treatment strategy

Future plans

- Combine hepatitis B and C screening
- Target migrants!
- Implement nationwide screening targeted at migrants