



Schweizerische Eidgenossenschaft
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Eidgenössisches Departement des Innern EDI
Bundesamt für Gesundheit BAG
Direktionsbereich Öffentliche Gesundheit

The Swiss Figures on Hepatitis

Swiss Hepatitis Symposium 2017

15 November 2017, Berner Generationenhaus

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- Epidemiology based on reporting system
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Swiss mandatory reporting system: notified cases of HBV and HCV between 1988 and 2016

HBV

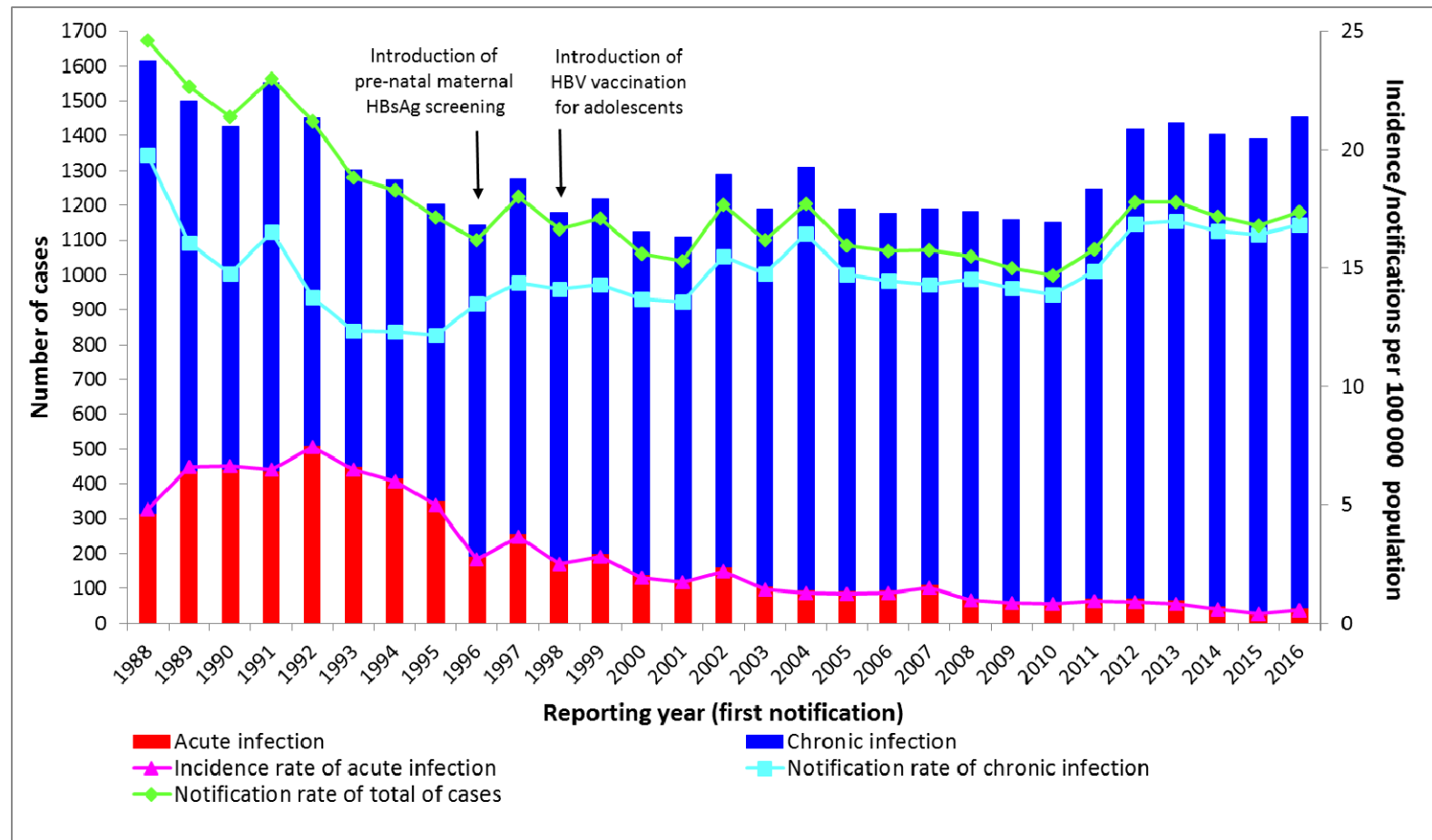
- Total notifications (acute and chronic infections): 37,566
- Acute infections: 5,646 (15.0%)
- New acute infections recently reported/year: ca. 50 (global range: 32-510)
- New chronic infections recently reported/year: ca. 1,350 (global range: 852-1,409)

HCV

- Total notifications (acute and non-acute infections): 51,410
- Acute infections: 1,626 (3%)
- New acute infections recently reported/year: ca. 50 (global range: 43-129)
- New non-acute infections reported/year: ca. 1,550 (global range: 1,259-2,749)

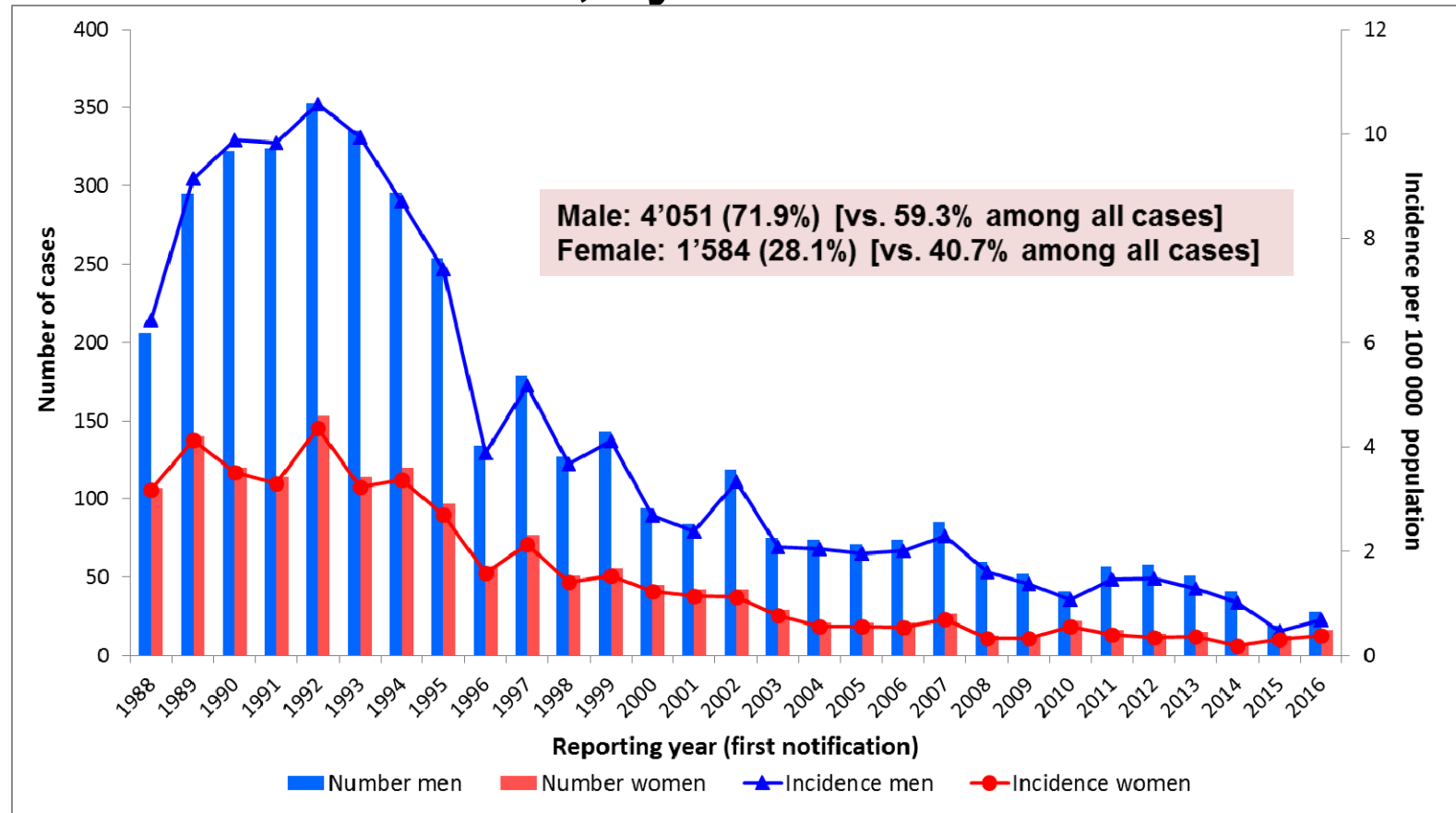


Hepatitis B – Evolution of number and incidence of notified cases





Hepatitis B – Evolution of number and incidence of notified acute cases, by sex



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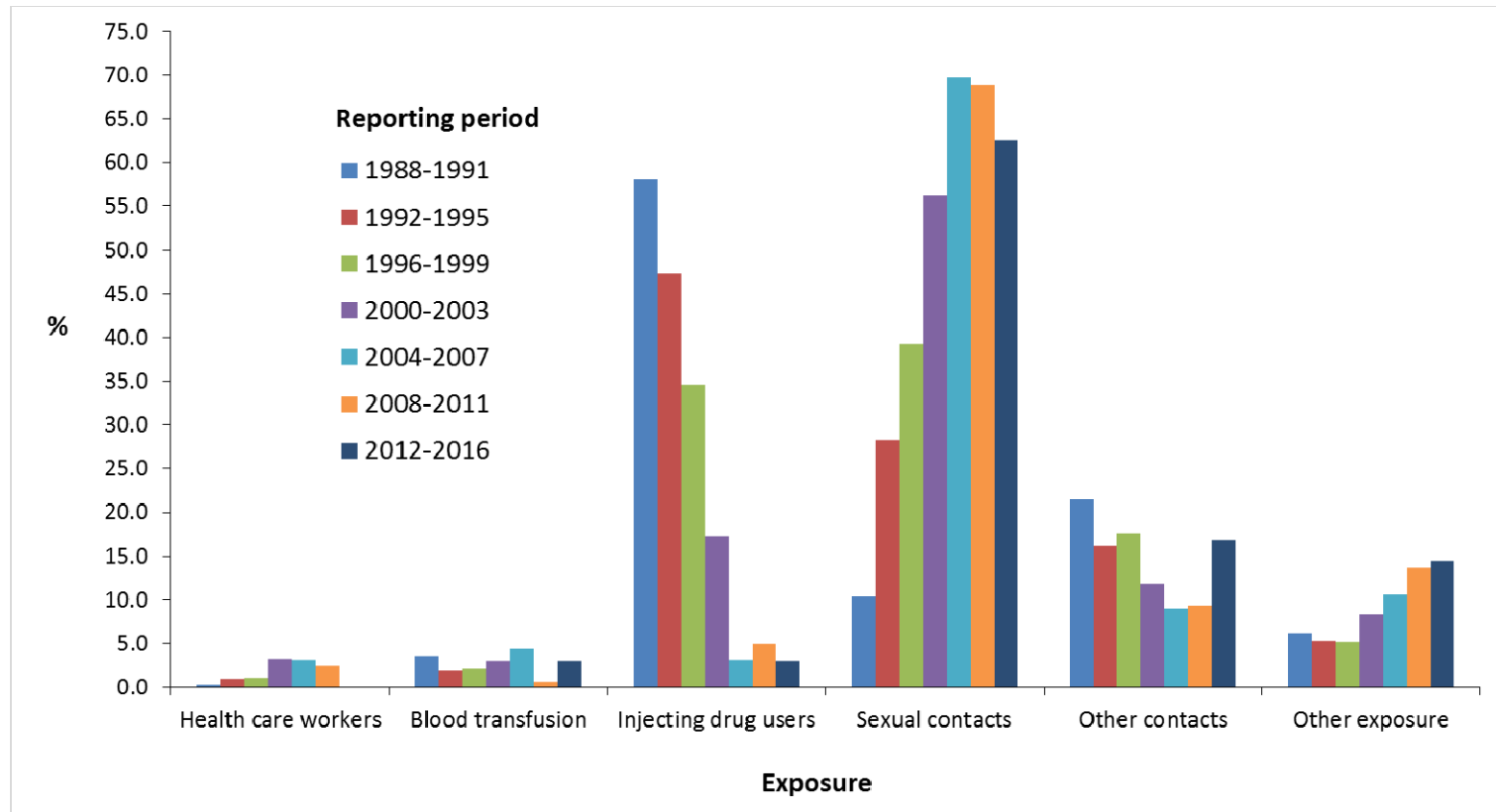
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Hepatitis B – Presumed source of infection

Acute cases

100% = total of (multiple) known exposures for each period



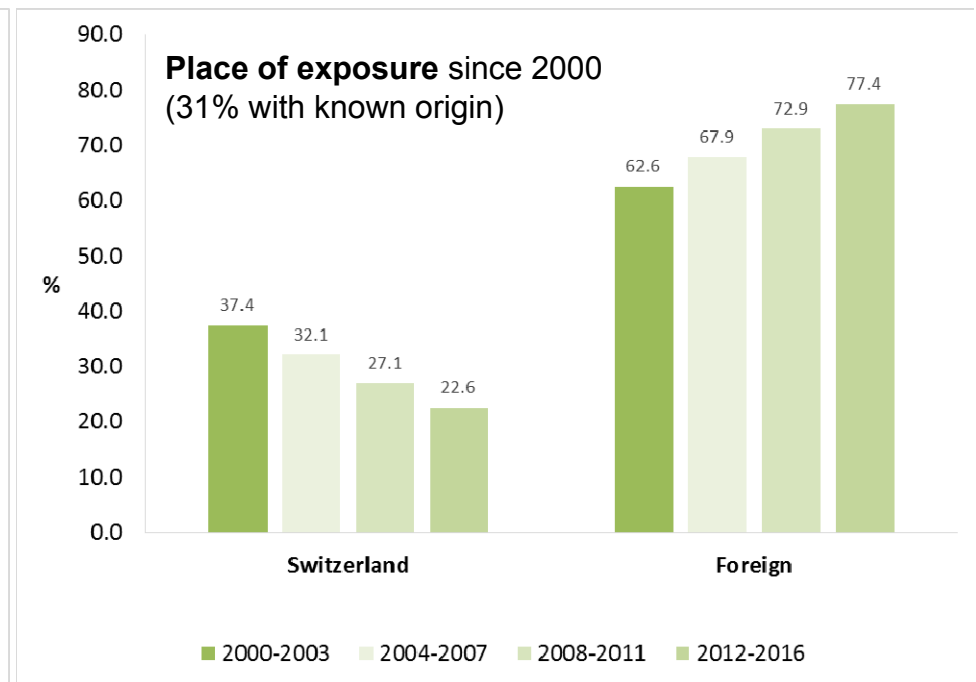
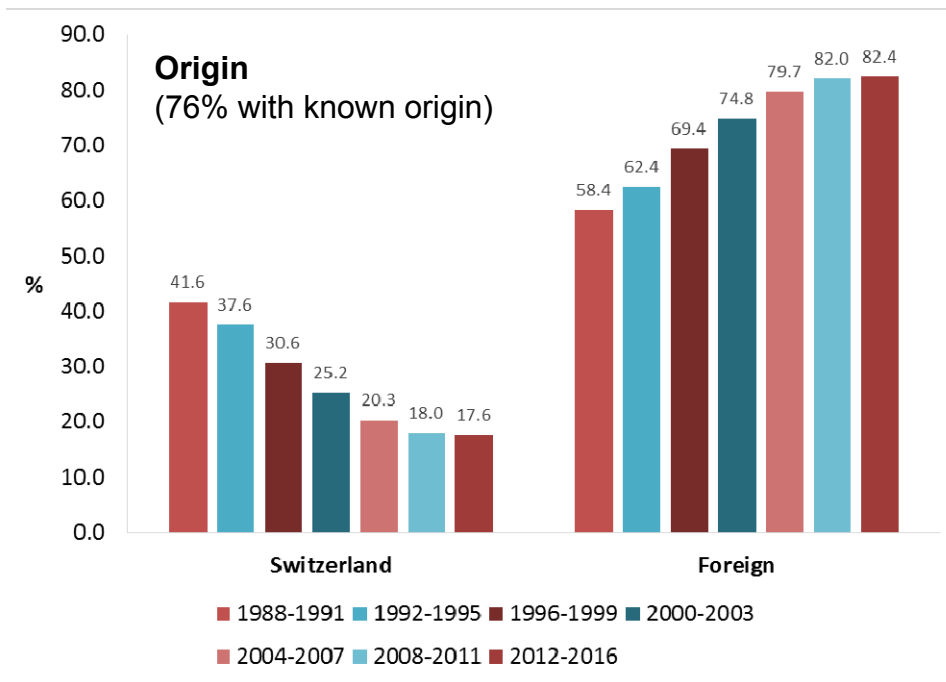
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Hepatitis B – Role of migration among chronic cases





Hepatitis B – Vaccination coverage

HBV vaccination in Switzerland

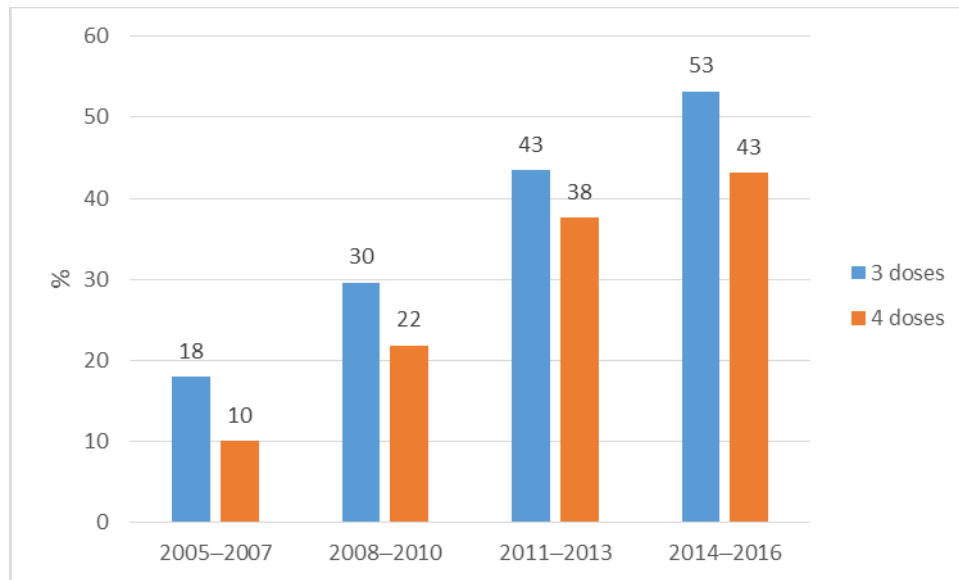
- 1981: Vaccination of at-risk groups
- 1985: Active and passive immunization of newborns of HBsAg positive mothers
- 1996: Systematic antenatal screening for HBsAg
- 1998: General vaccination of adolescents, 11-15 years old, 2 doses since 2000/2005 (Switzerland's main approach)
- *Since 1999: Vaccination coverage based on Swiss National Vaccination Coverage Survey (ISPM/EBPI Zurich)*
- 2004: Vaccination of infants, 4 doses
- Future: Shift focus on infants, 3 doses?



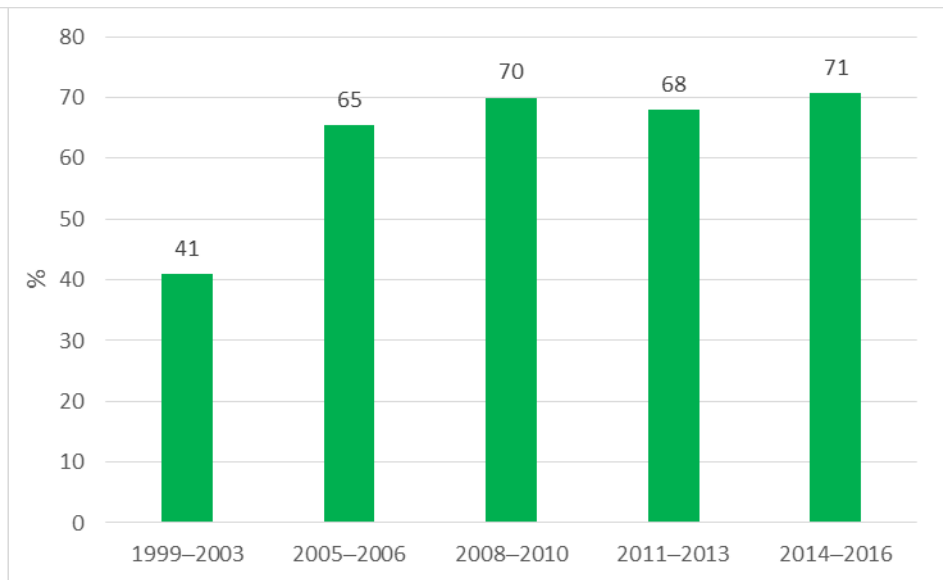
Hepatitis B – Vaccination coverage

Evolution of coverage in Switzerland since 1999

HBV vaccination coverage, 2 years, 3 and 4 doses



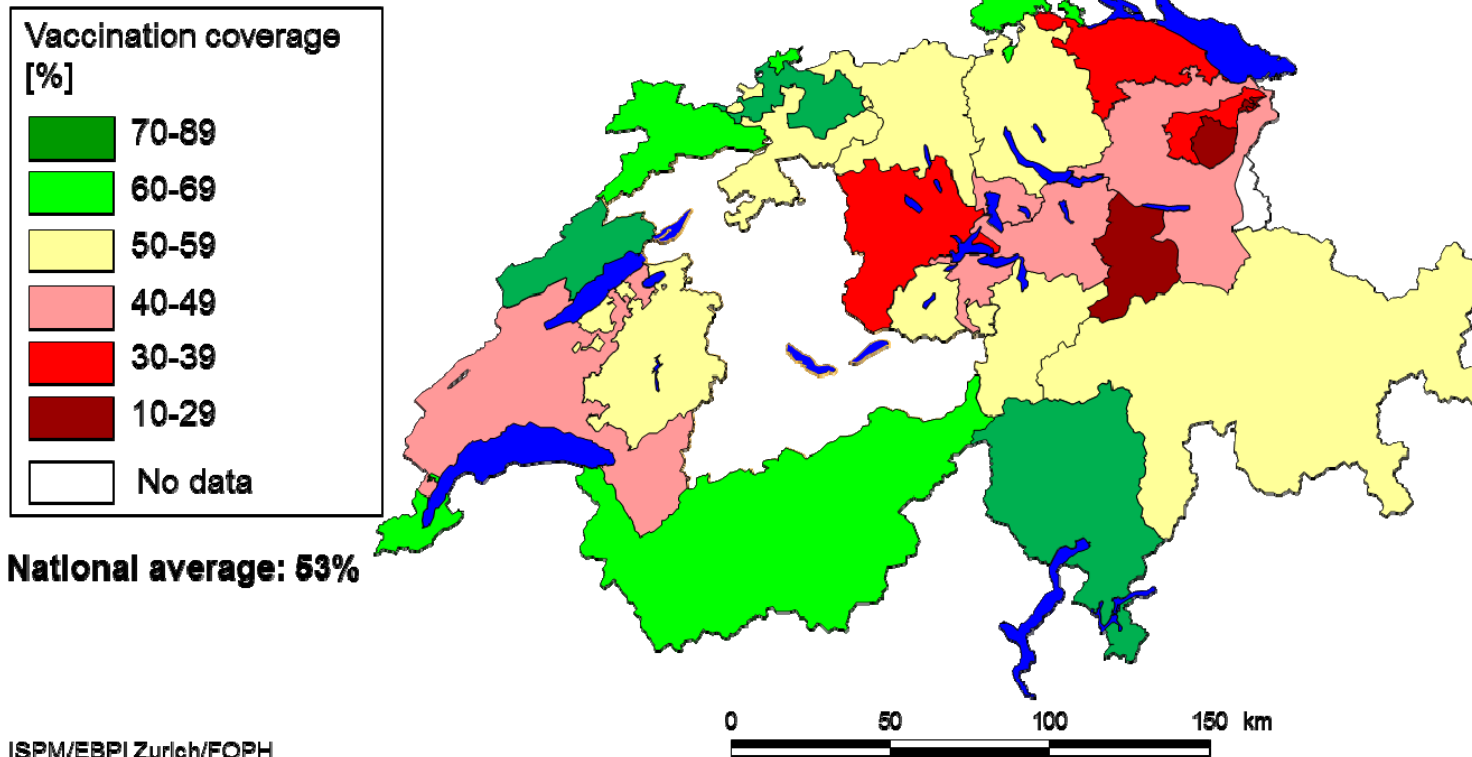
HBV vaccination coverage, 16 years, 2 doses





Hepatitis B – Vaccination coverage

Coverage by cantons 2014-2016, 2 years, 3 doses

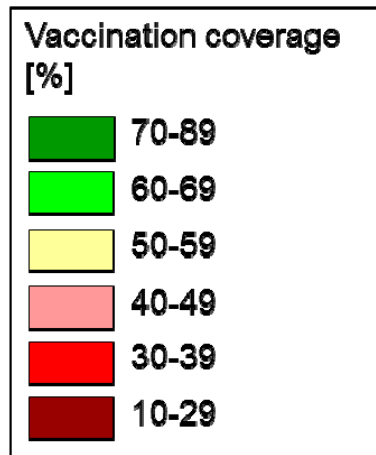


ISPM/EBPI Zurich/FOPH

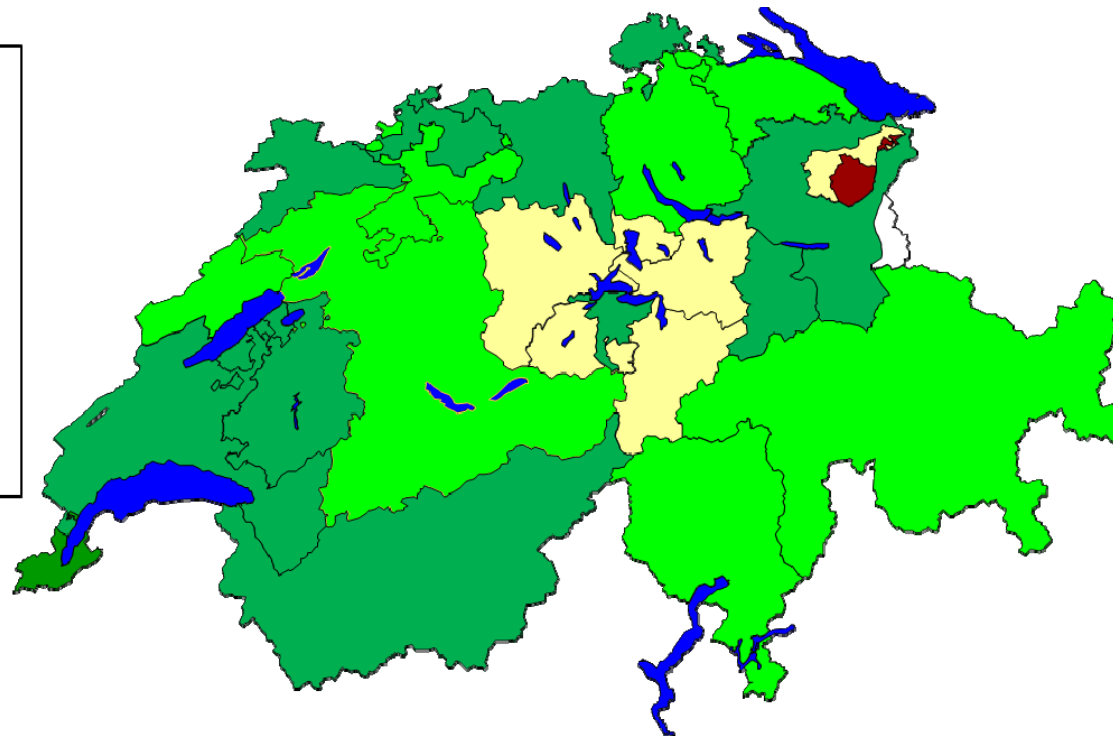


Hepatitis B – Vaccination coverage

Coverage by cantons 2014-2016, 16 years, 2 doses



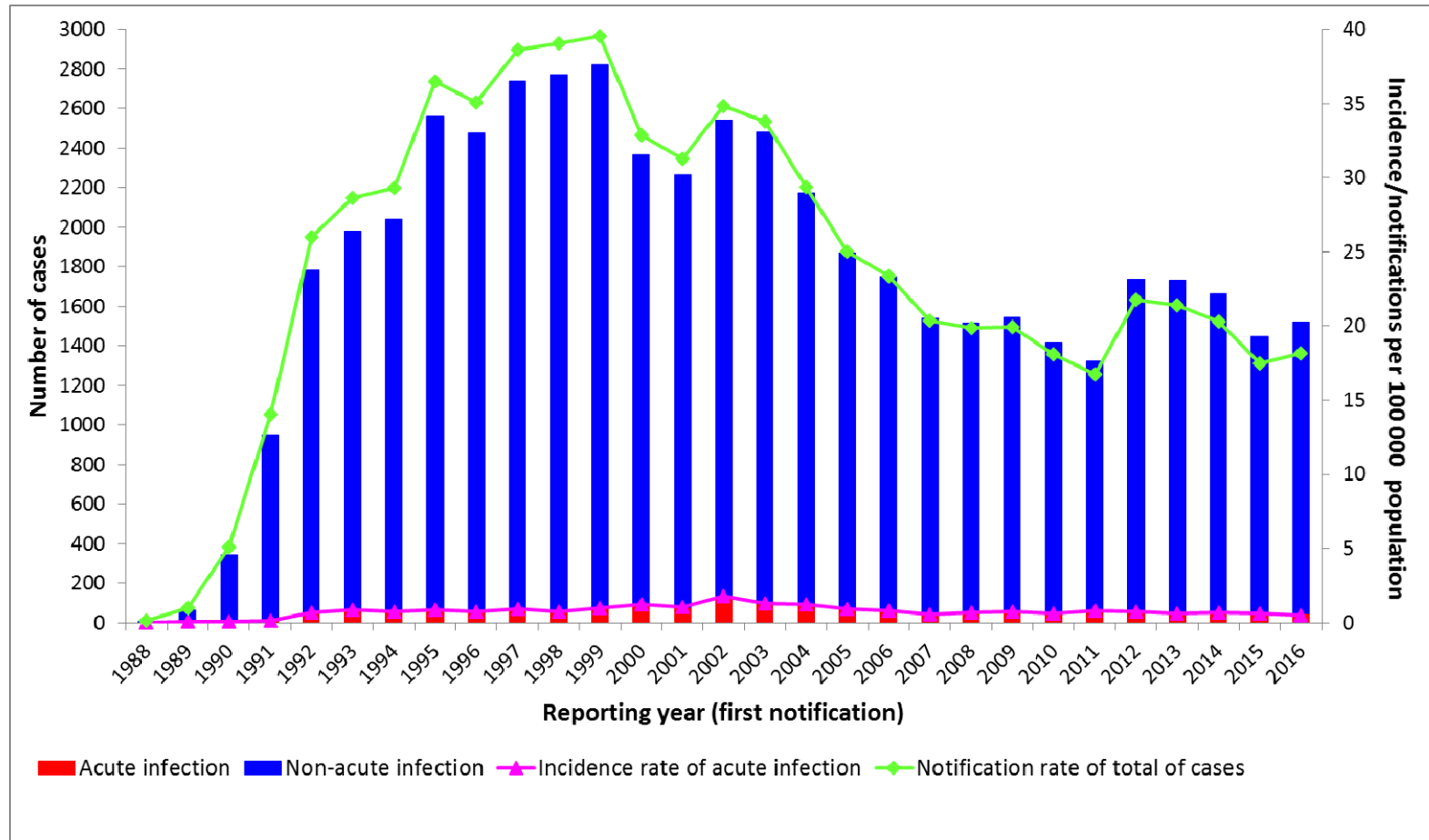
National average: 71%



ISPM/EBPI Zurich/FOPH

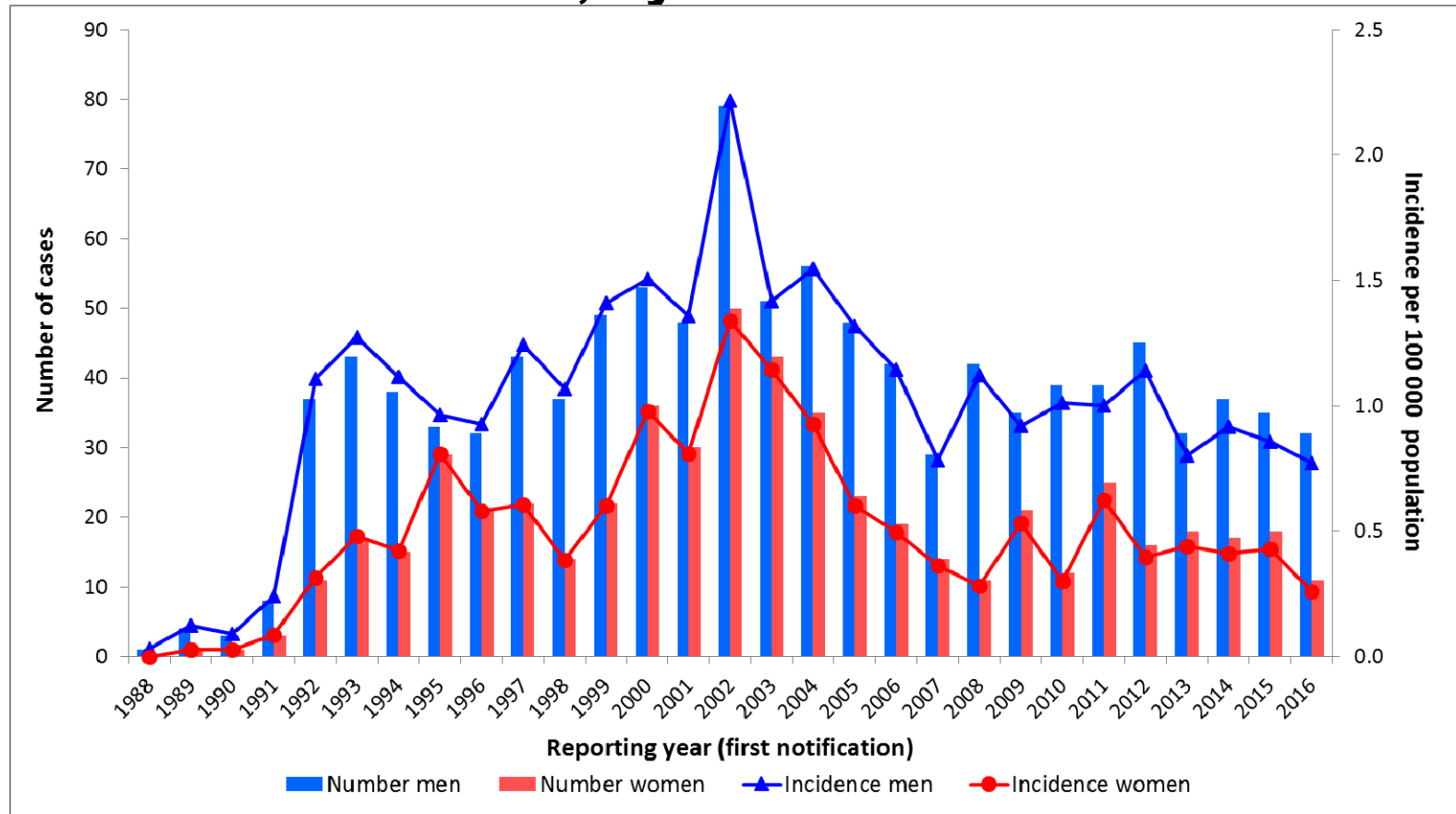


Hepatitis C – Evolution of number and incidence of notified cases





Hepatitis C – Evolution of number and incidence of notified acute cases, by sex

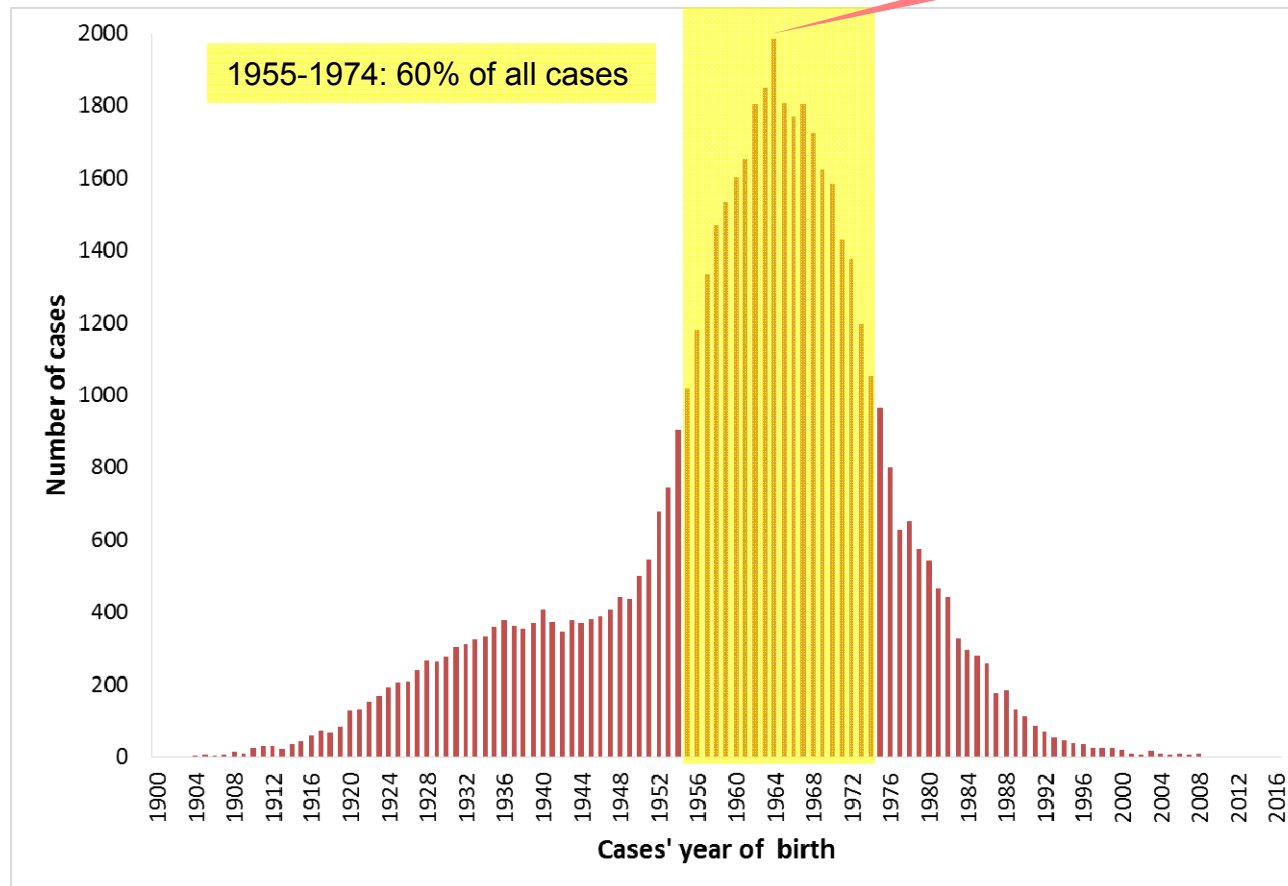


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Male: 1'070 (65.8%) [vs. 60.6% among all cases]
Female: 555 (34.2%) [vs. 39.4% among all cases]



Hepatitis C – Number of notified cases, by year of birth



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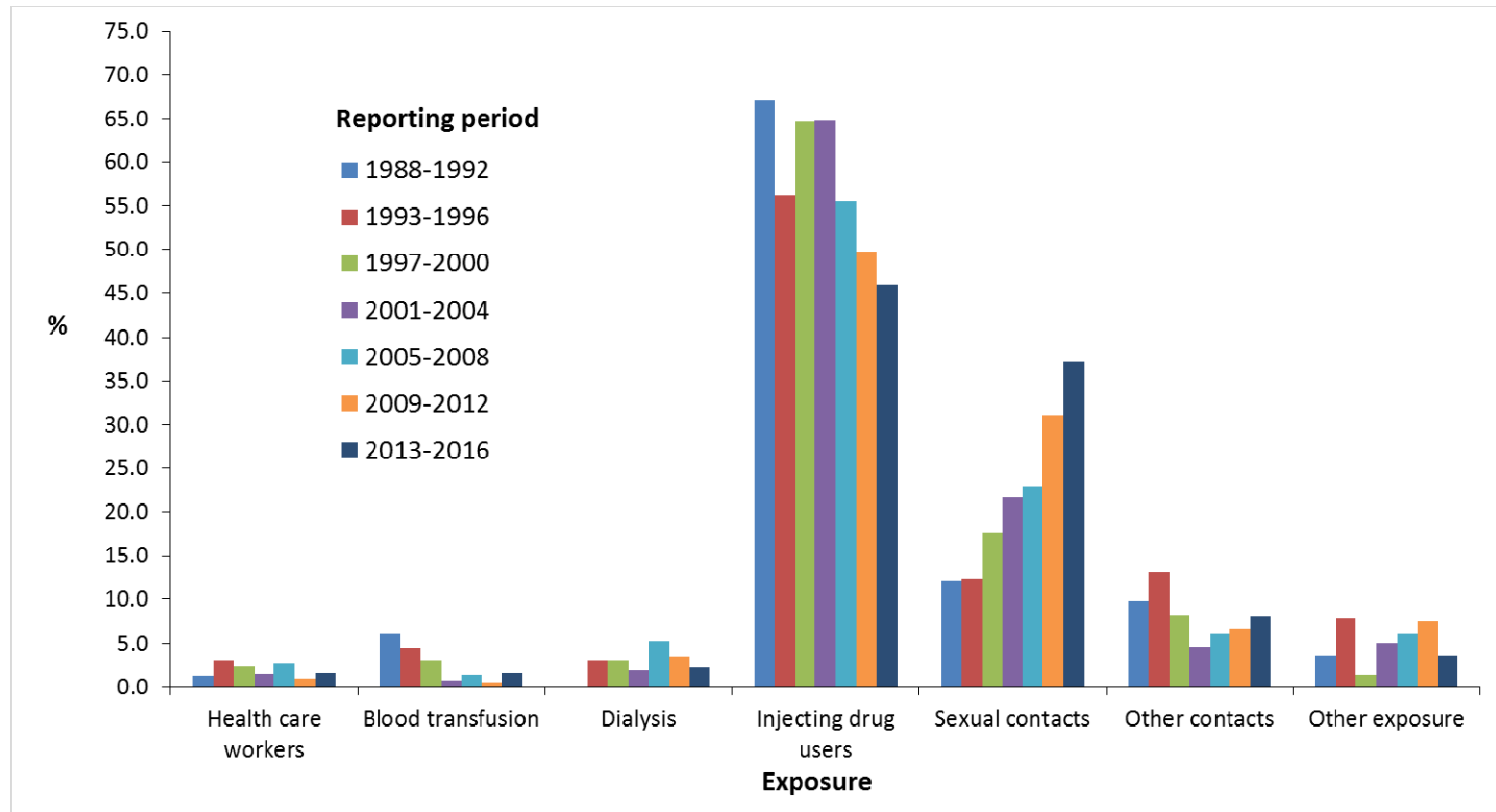
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Hepatitis C – Presumed source of infection

Acute cases

100% = total of (multiple) known exposures for each period



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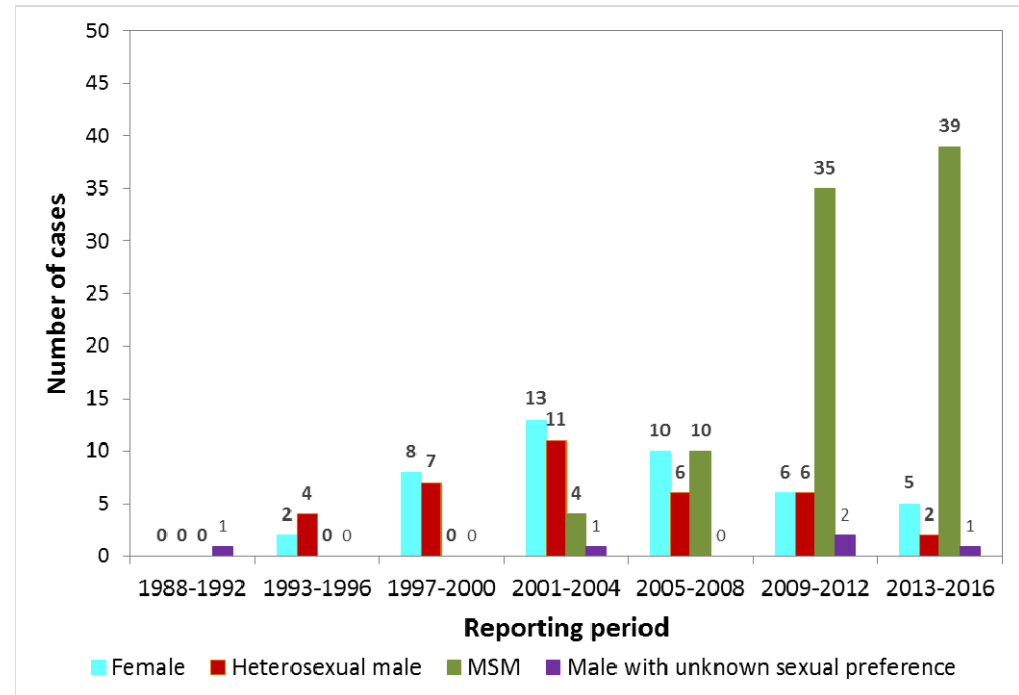
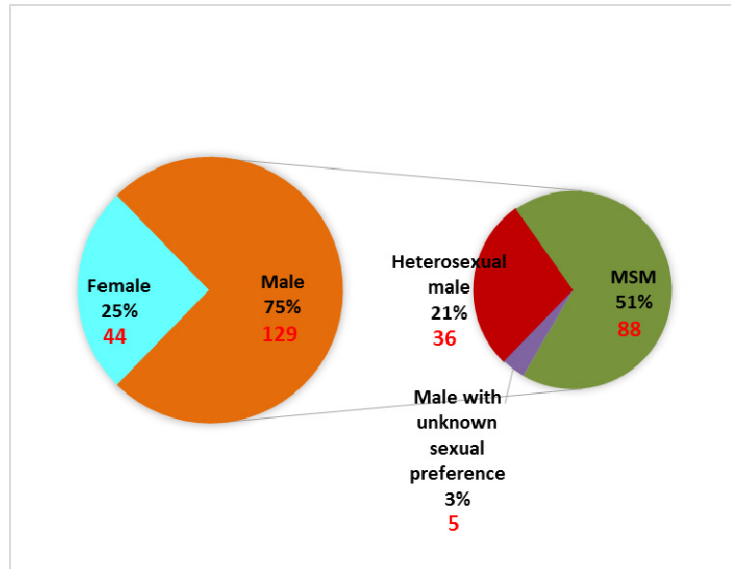


Hepatitis C – Sexual contact

HCV, acute cases: sexual contact as the only presumed source of infection, 1988-2016
(n=173 [13%] cases among 1,359 with at least one known exposure)

Acute cases per reporting period

Total of acute cases





Hepatitis C – Treated patients

Estimations primarily based on drug sales data

- 2001-2014: 14,500
- 2015: 2,150
- 2016: 1,900
- **2017: 2,350 (annualized number, assuming 3 months of treatment)**

Underestimation since treatments may likely increase after 1 October 2017 (reimbursement of pangenotypic DAA, irrespective of fibrosis stage)



Hepatitis B – Summary

Epidemiology

- Downward trend in incidence of acute cases after peak in 1992
- IDU as main source of acute infection replaced by sexual contact by 2000
- Plateau in notification rate of chronic cases since 1995
- Total cases: 59% male, acute cases: 72% male
- Immigration (with infection abroad) main driver behind chronic cases

Vaccination coverage

- Adolescent vaccination stagnates at 70% coverage
- Infant vaccination picking up, coverage rates >90% possible in the future



Hepatitis C – Summary

Epidemiology

- Plateau in incidence of acute cases after peak in 1999-2005
- IDU as main source of acute infection with decreasing trend, sexual contact increasing (mainly MSM, but small numbers)
- Total cases: 61% male, acute cases: 66% male
- Majority of all cases born between 1955 and 1974 (Mode: 1964)

Treatment in 2017

- Increase of at least 450 treatments (2,350 vs. 1,900 in 2016)
- “Mixed picture” due to changing reimbursement situation regarding fibrosis: limitation lifted for IDUs > limitation lifted for certain genotypes > finally no limitation at all
- 2,500-3,000 treatments probable in 2017



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Thank you for your attention!