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The Swiss Urgent Action Plan 2012 (MSM)

Steven Derendinger, MA



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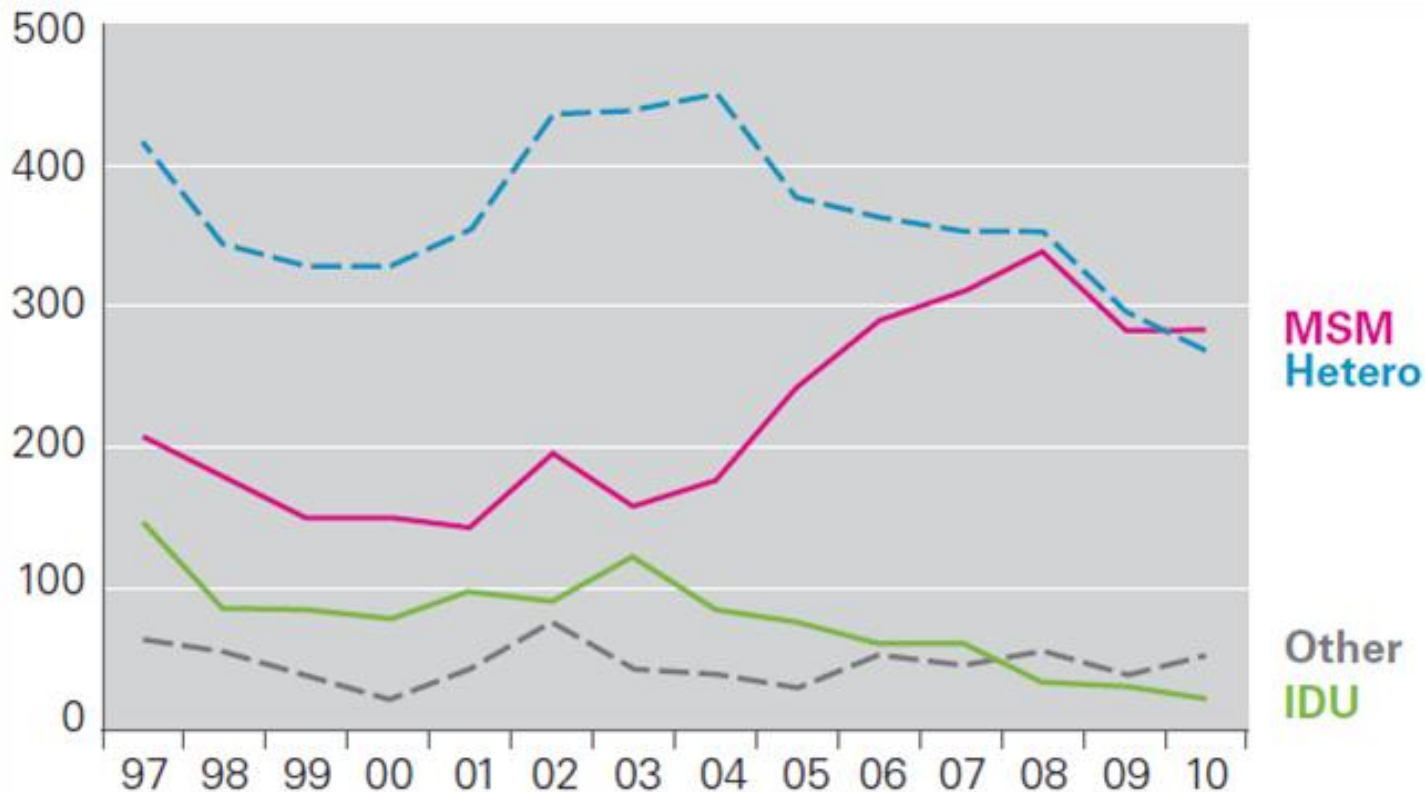
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Epidemiological and behavioral data

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New HIV diagnoses among MSM (I)



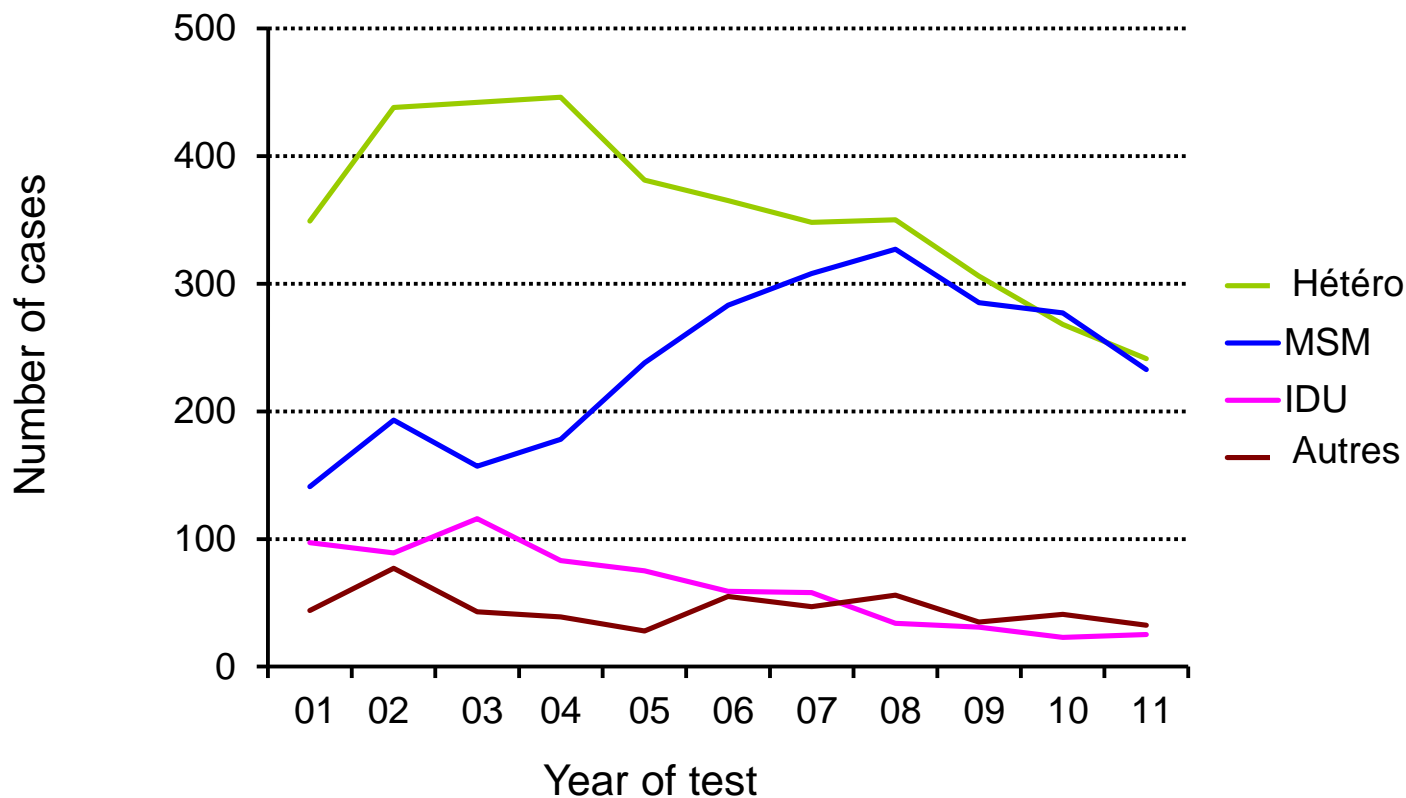
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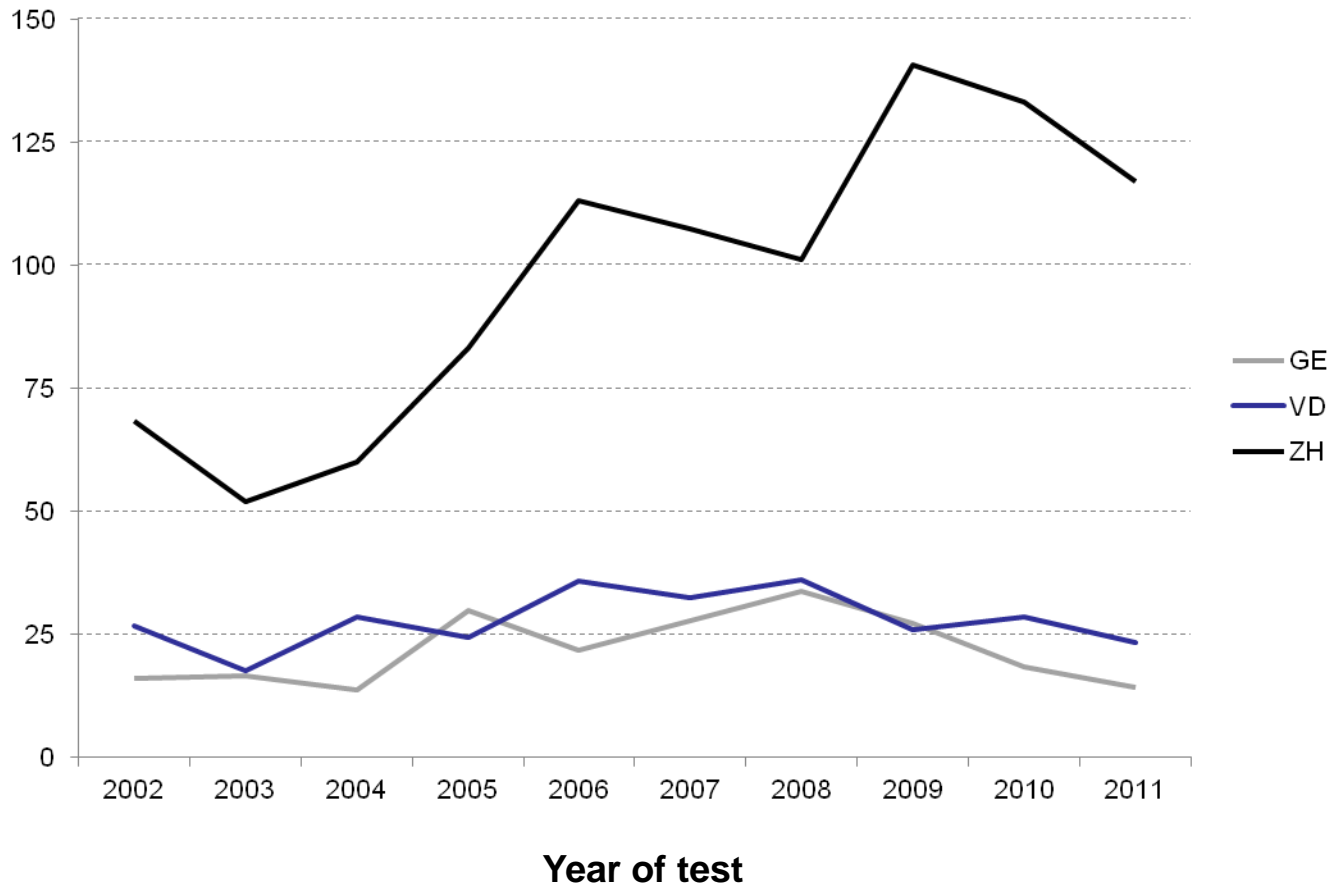


New HIV diagnoses among MSM (II)



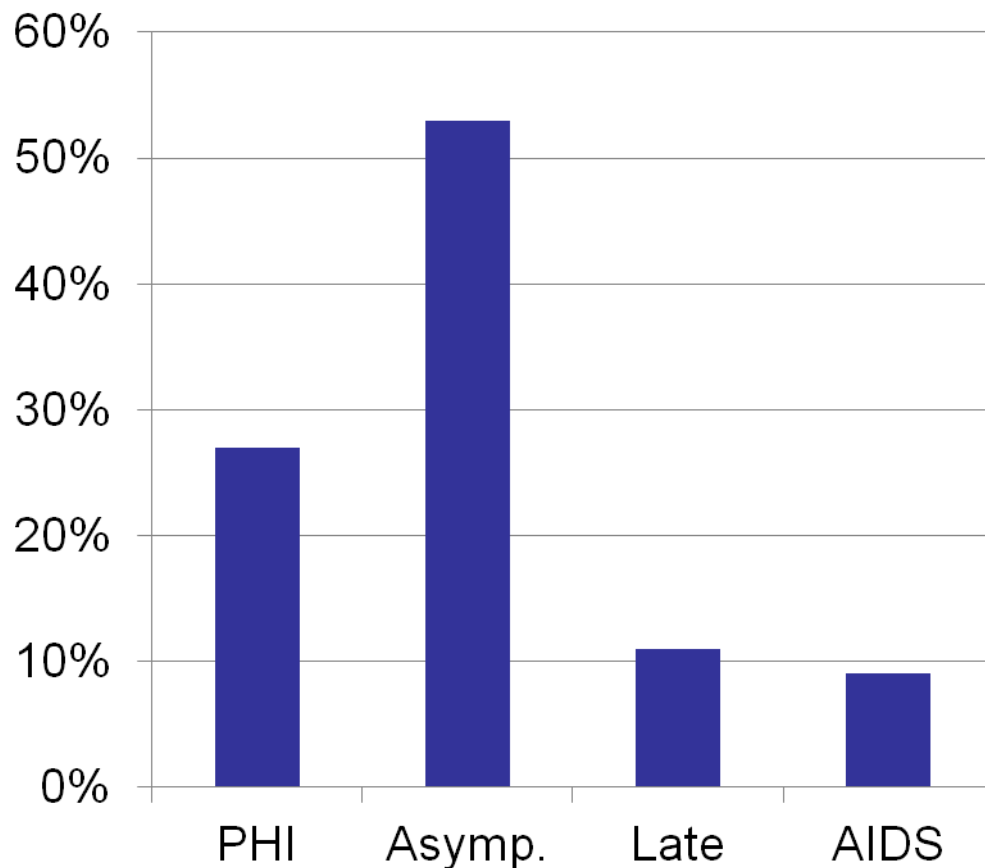


New HIV diagnoses among MSM (III)





At what stage are MSM diagnosed for HIV?



**Internal data
Swiss Federal
Office of Public
Health
(2001 – 2010)**

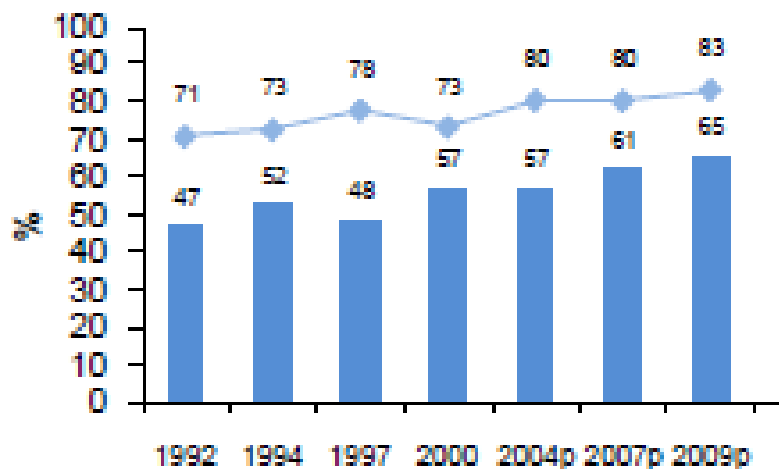
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Risk behaviour with steady partners (I)



Among the MSM in a steady relationship, 83% reported practicing anal sex.

Among these MSM, 65% had unprotected anal sex.



% reporting anal sex in last 12 months



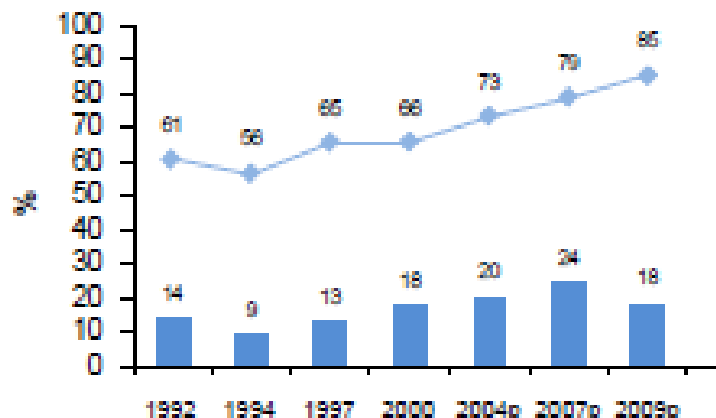
% anal sex that was unprotected



Risk behaviour with sexual casual partners (II)

Gay Survey 2009 :

75% of respondents have had casual partners the last 12 months.



Among MSM with casual partners, 85% practiced anal sex.

Among these MSM, 18% practiced unprotected anal sex.



% reporting anal sex in last 12 months



% anal sex that was unprotected



WO BIST DU IN DIESEN NETZWERKEN?



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Risk behaviour among MSM

- Steady partner → without condom after HIV test.
- Regular casual partner (sex-buddies): if regularly tested HIV-negative → without condom.

→ Networks of men who have unsafe sex between them.

→ One infection is enough for the virus to spread in these networks and infect numerous men.



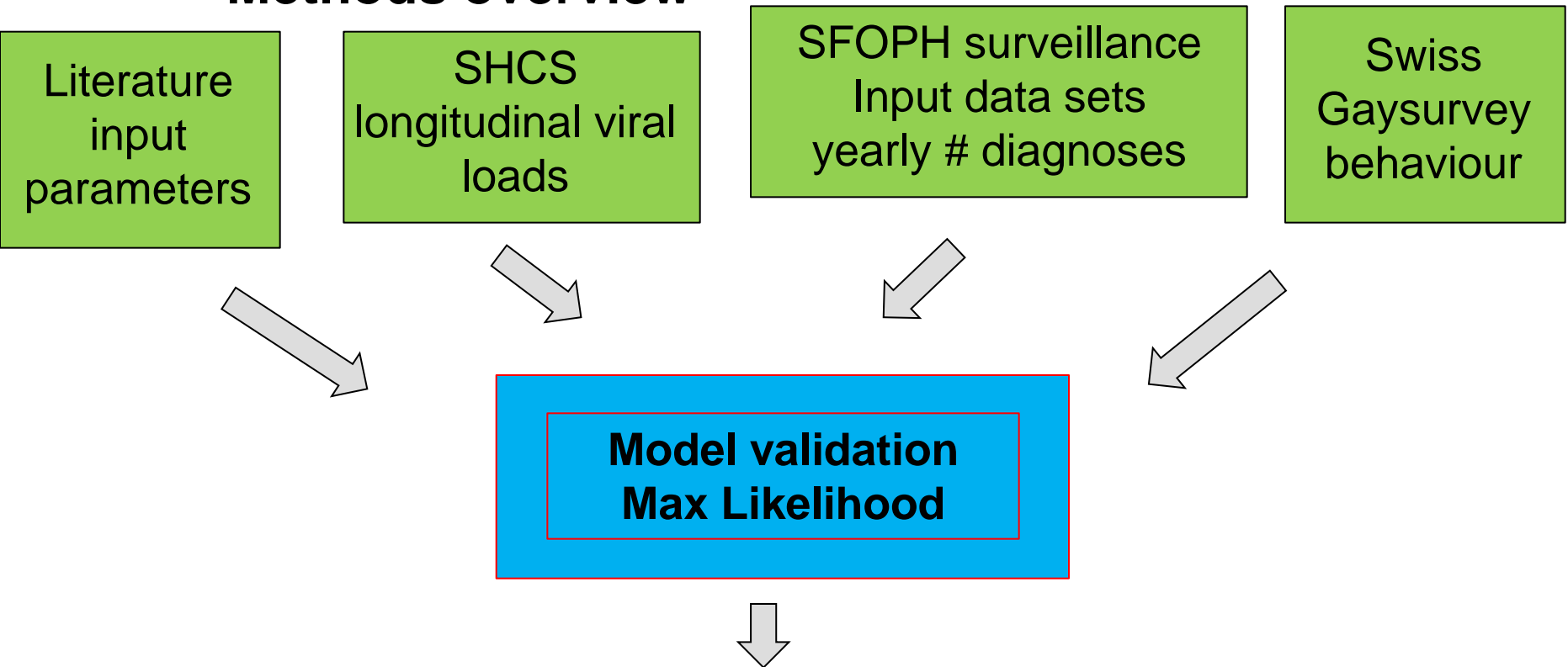
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The Mathematical Model



Methods overview

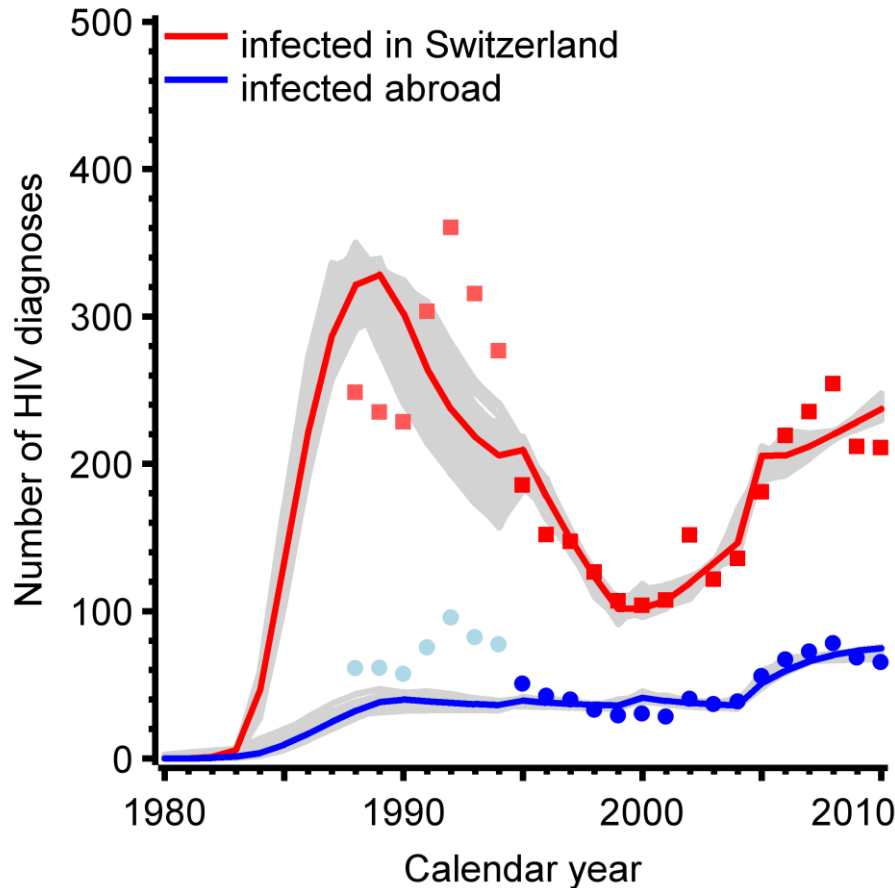


Best-fit estimates:

- number of HIV-infected
- risk behaviour rate, diagnosis rate
- number of new infections in-country and abroad



Model Results: remodelling of HIV diagnoses



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Mathematical Model: results from remodelling

- **In 2010, about 13% of infected MSM were unaware of their infection and were the origin of about 80% of new infections among this population.**
- MSM get diagnosed within 2.2 years after the infection.
- Benefits from therapy have been offset by increases in risk behaviour.



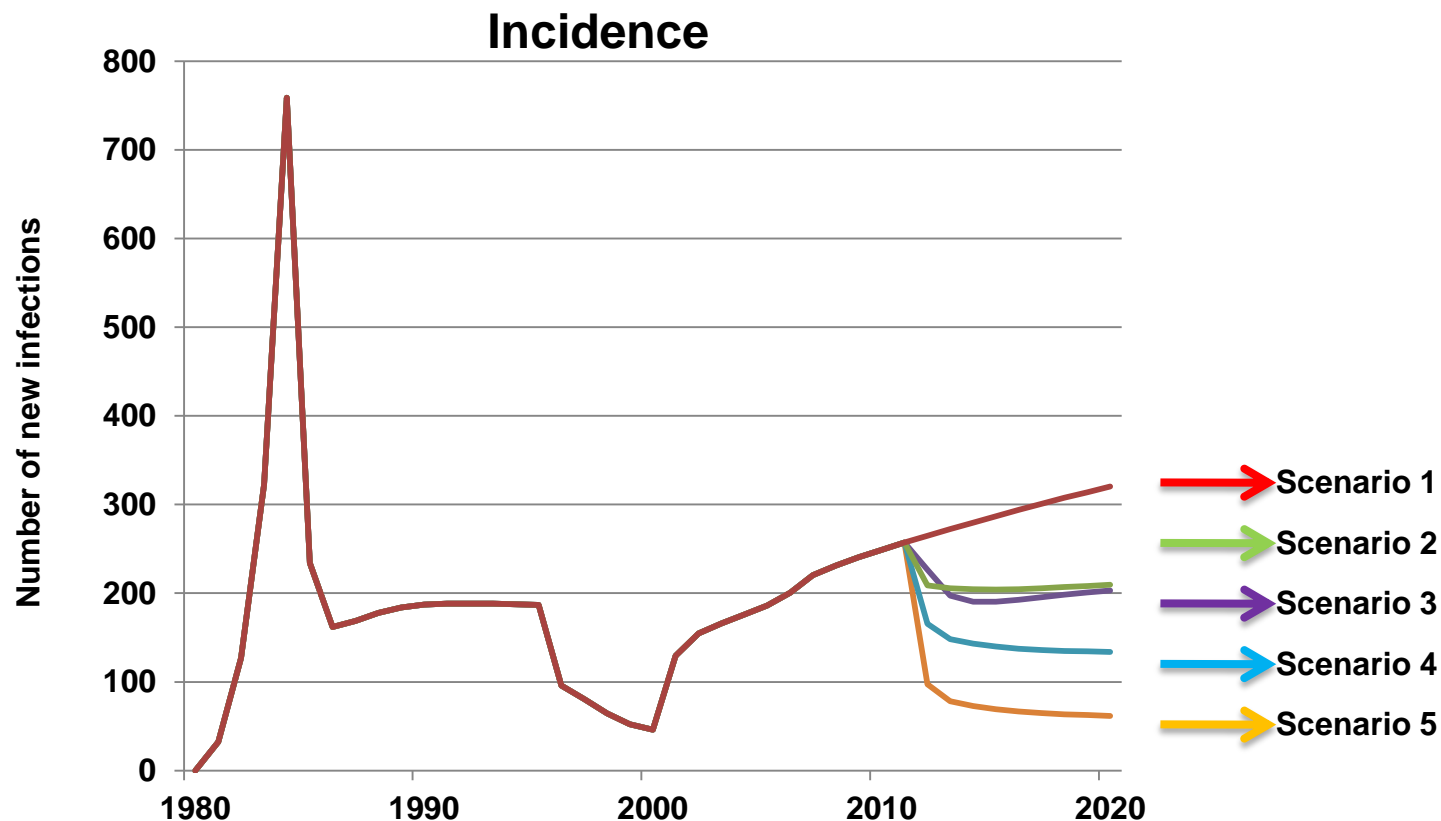
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What can be done?



Model Results: hypothetical scenarios future



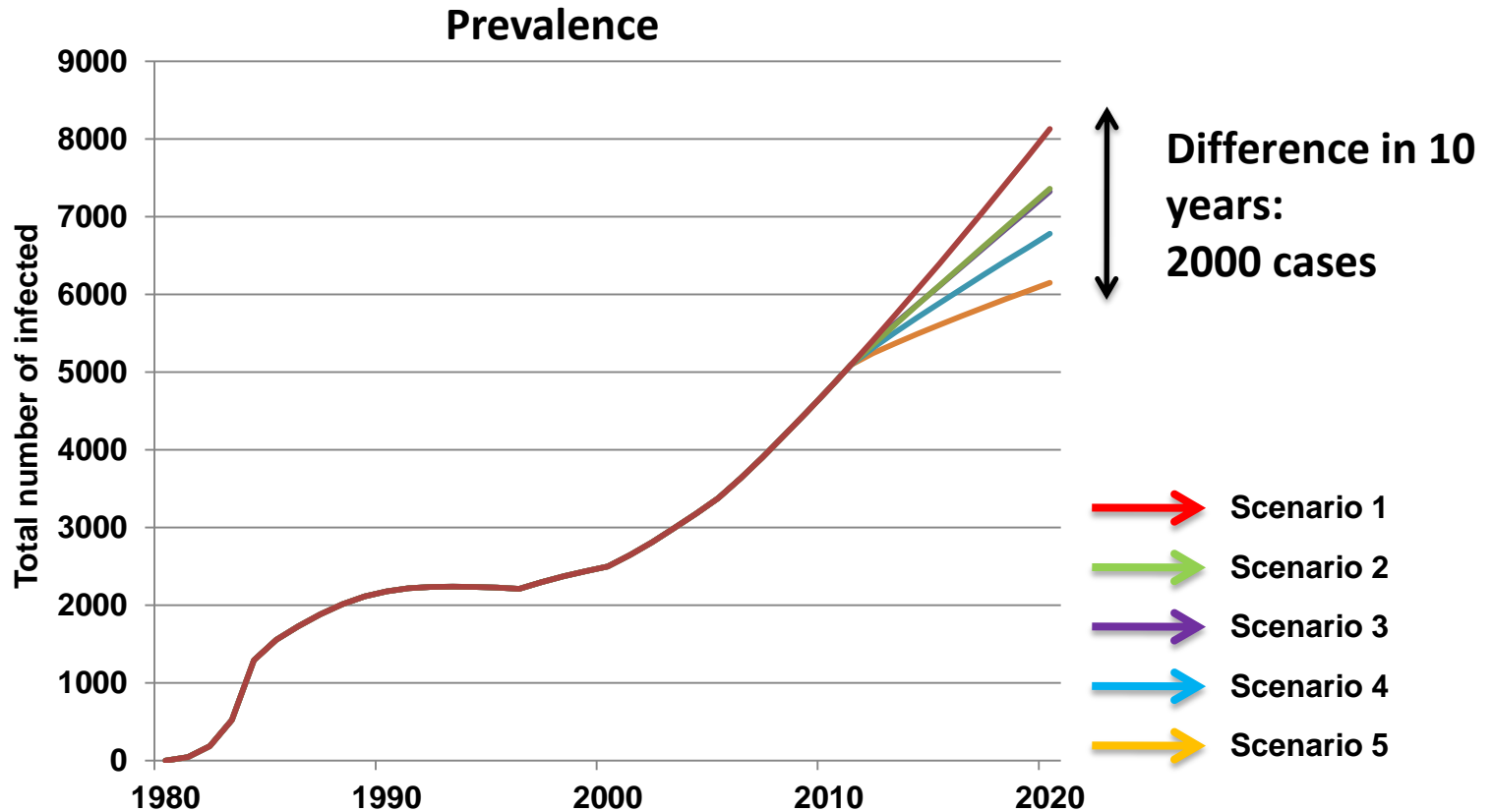
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Prevalence in 10 years with regards to the scenarios





Our hypothesis:

- 50% of transmissions occur within the Primary HIV Infection phase (PHI).
- 30% of transmissions occur after PHI and before diagnostic.
- 20% of transmissions occur after diagnostic.



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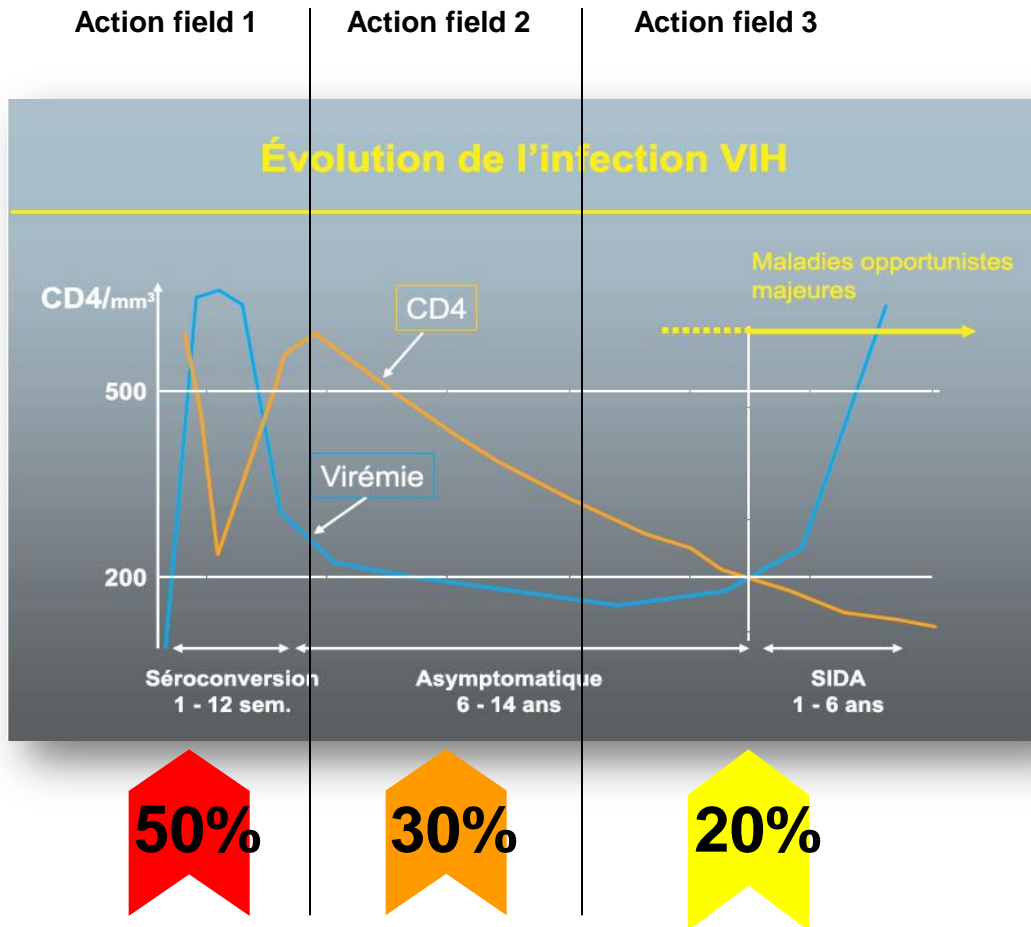
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The brochure of the Swiss FOPH:

« Sex between Men: Towards a Better Sexual Health 2012»



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Action field I :

Transmissions within PHI (50%)



Objective:

Lower the “community viral load among gay men” by breaking the chain of PHI.

Reduce the number of men with PHI as low as possible.



Action field II : Transmissions after PHI and before diagnostic (30%)



Objective:

Reduce time from infection to diagnostic.

BIG 5 promotion

Assure follow up of HIV+ men and prepare for treatment.



Action field III : Transmissions after diagnostic (20%)



Objective:

No transmission in couples and with occasional partners after diagnosis.



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Thank you.

roger.staub@bag.admin.ch
steven.derendinger@bag.admin.ch

www.bag.admin.ch/aids