

# Pre-exposure prophylaxis versus 'test and treat' amongst men who have sex with men in the Netherlands

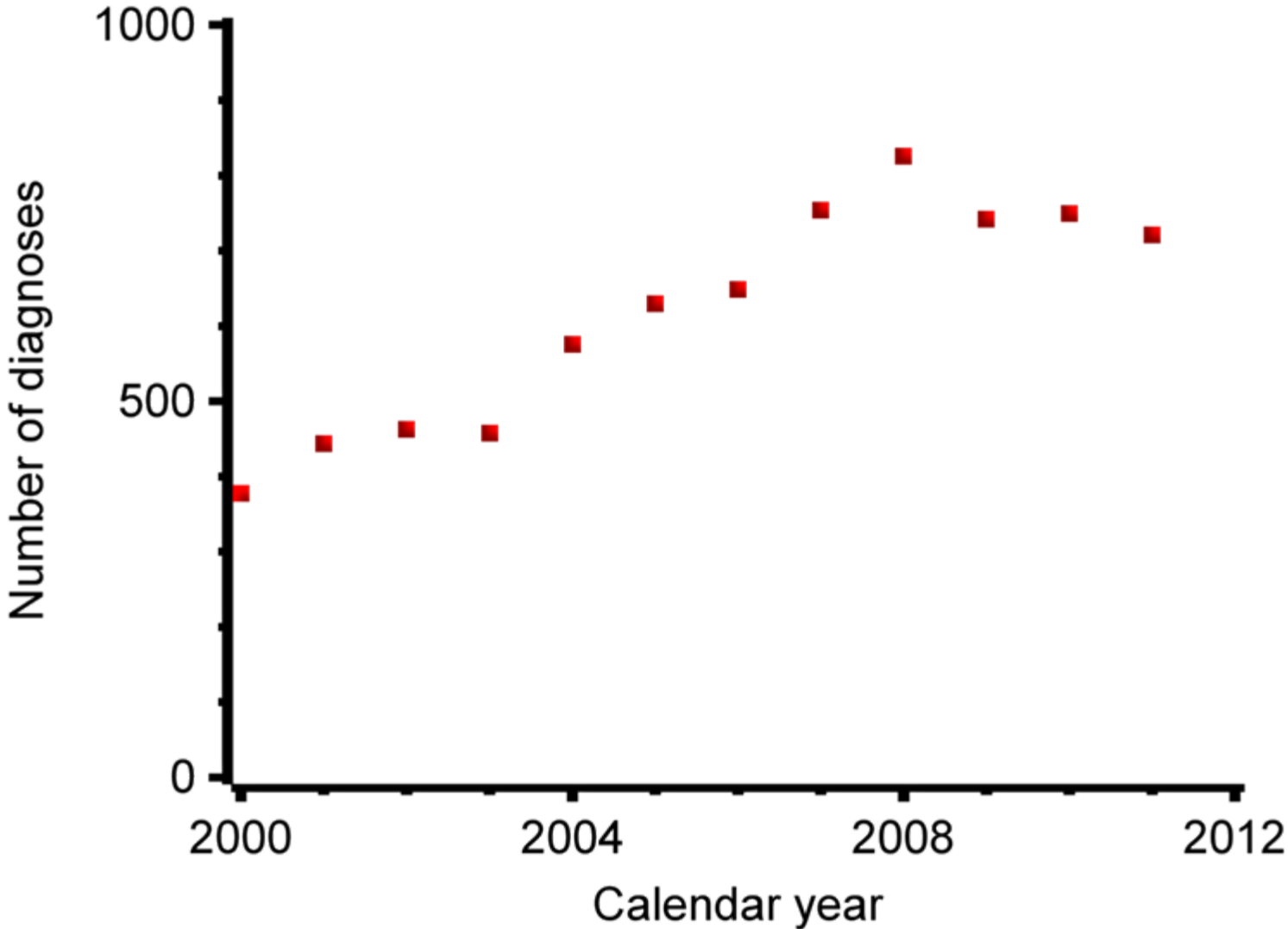
---

*Ard van Sighem, Rob van den Hengel, Daniela Bezemer, Frank de Wolf*

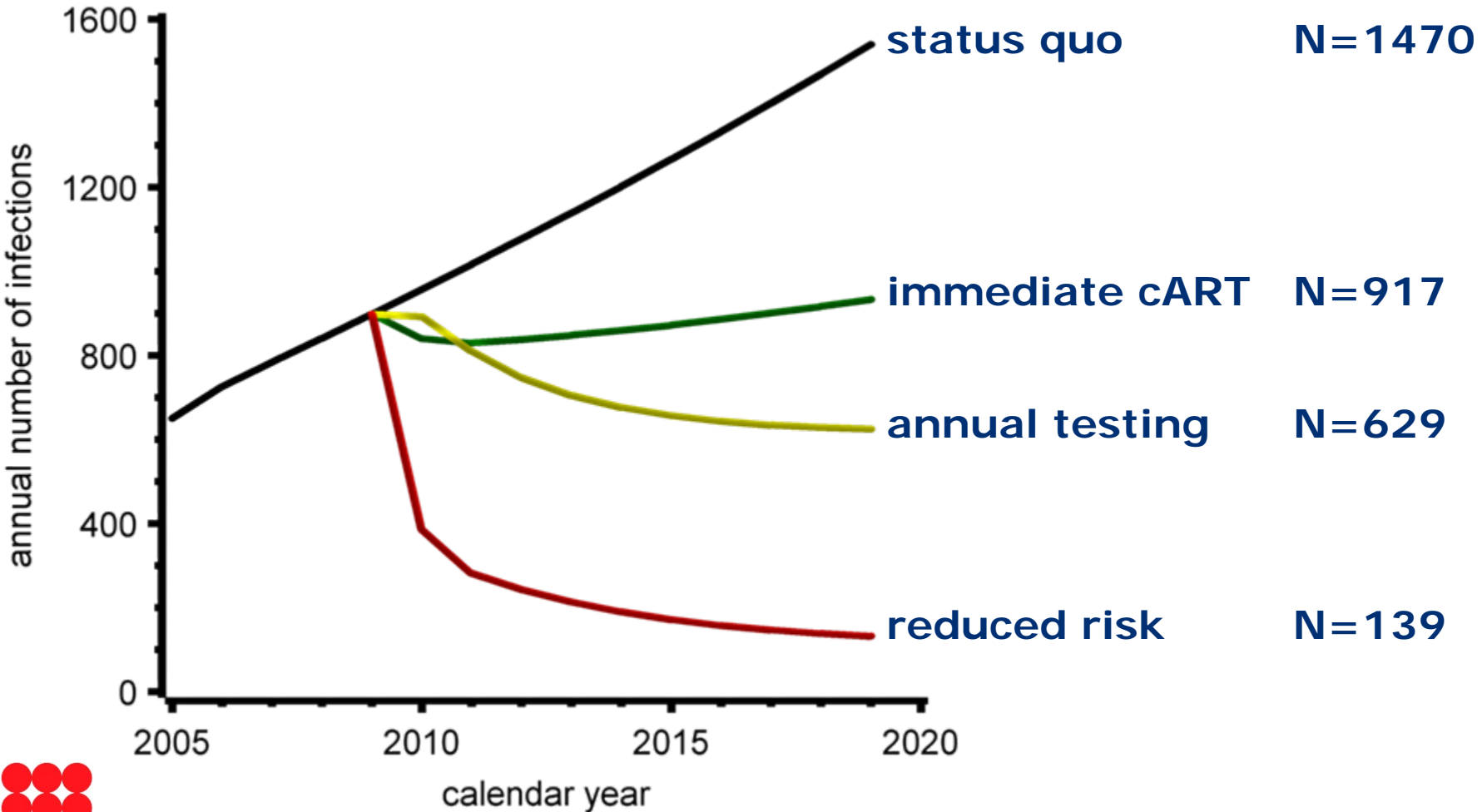
3<sup>rd</sup> International HIV Workshop on Treatment as Prevention  
Vancouver, BC, Canada  
22-25 April 2013



# HIV diagnoses amongst MSM



# Effective interventions



---

What is the impact of PrEP on the HIV epidemic amongst MSM in comparison to 'test and treat'?

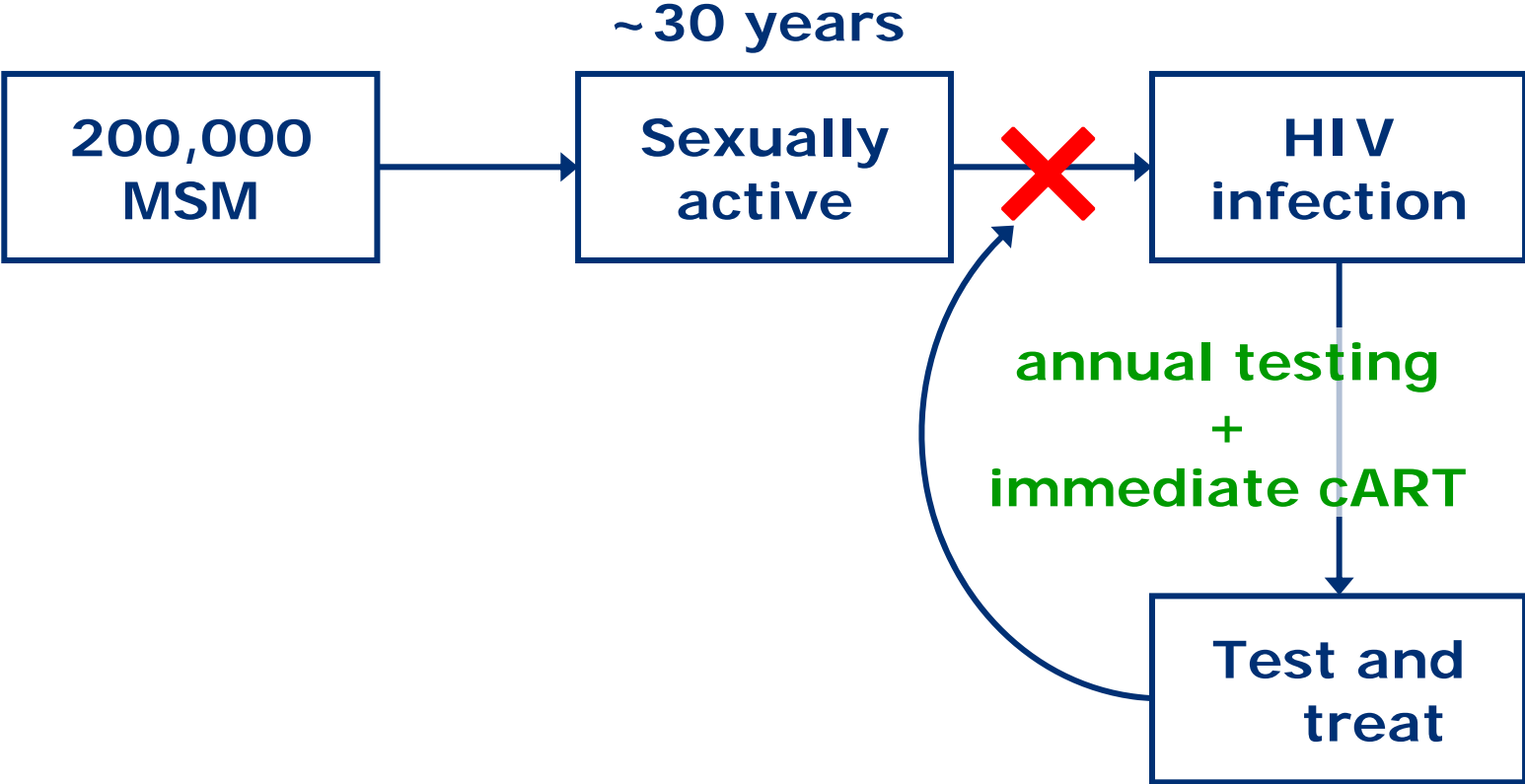
# MSM and PrEP

---



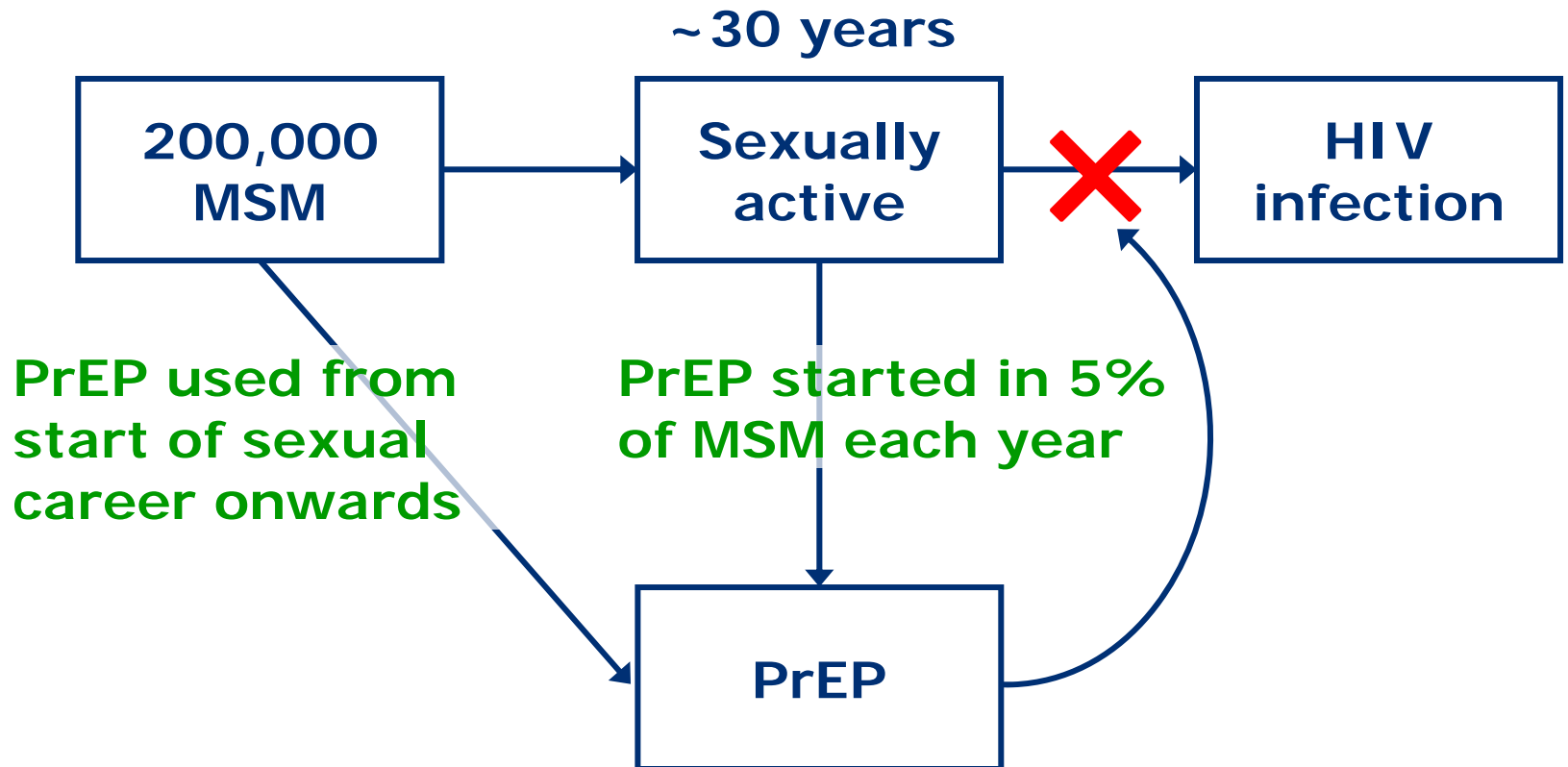
# MSM and TasP

---

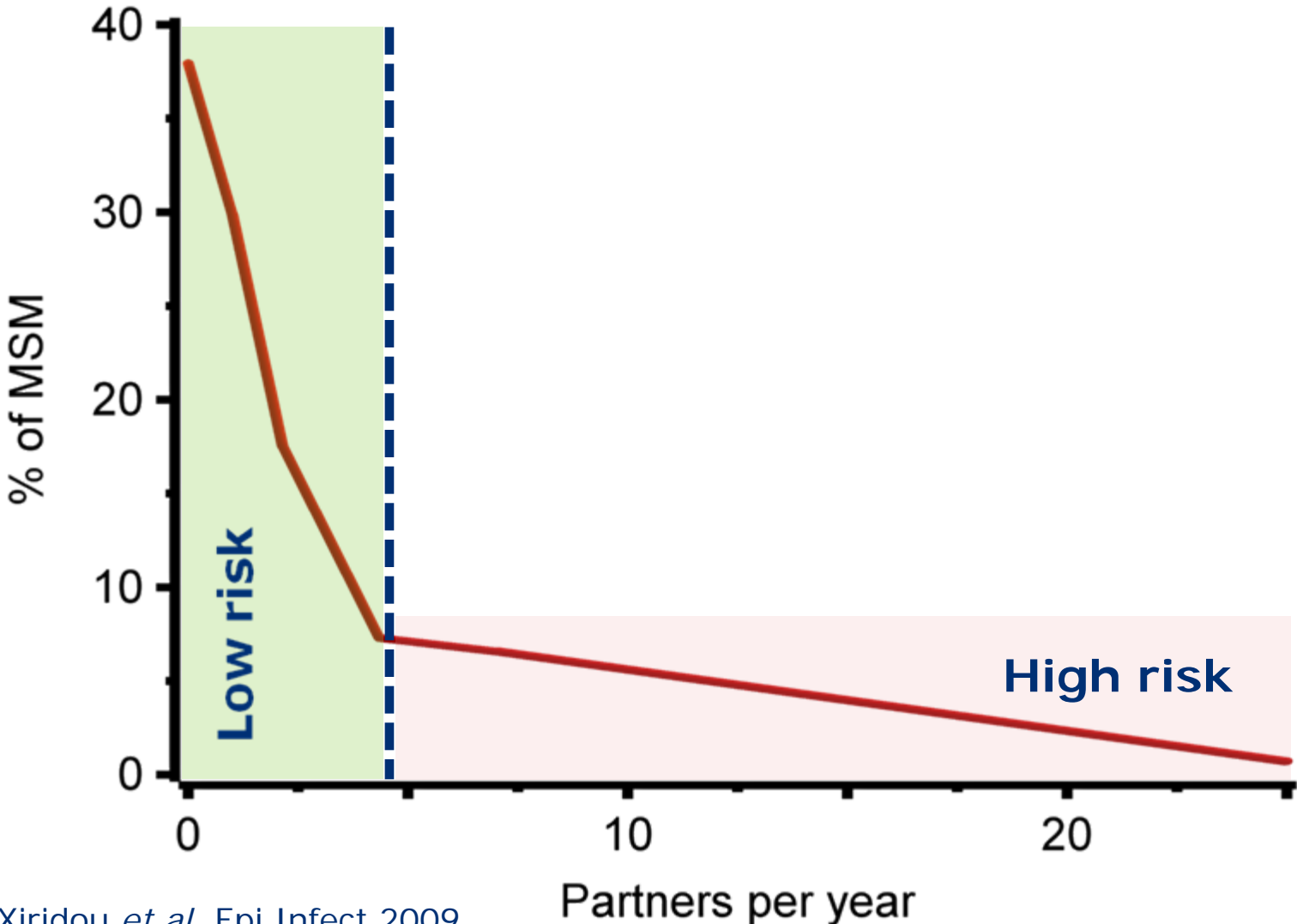


# MSM and PrEP

---



# Unprotected sex partners



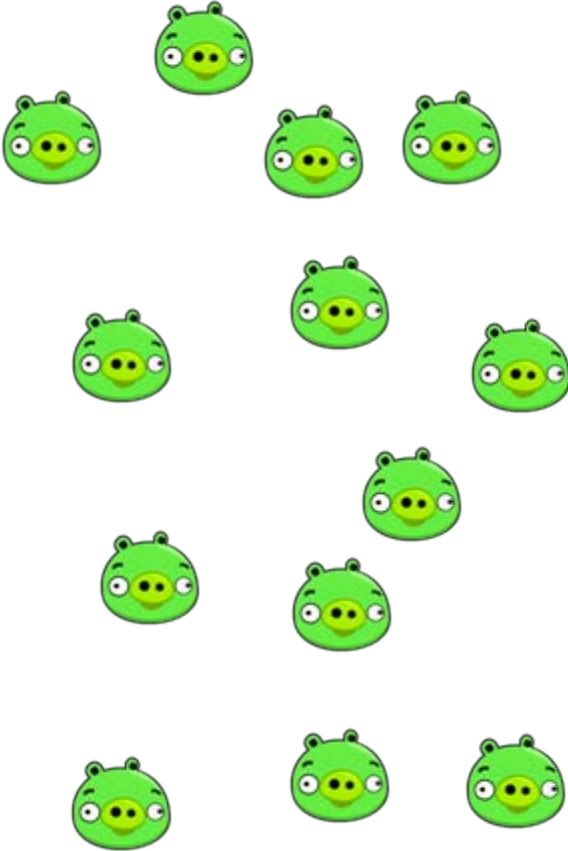


# Sexual mixing

---

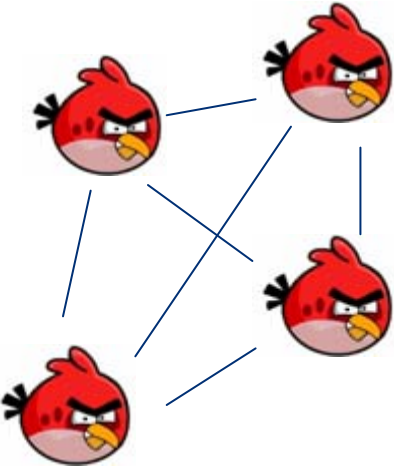


High risk

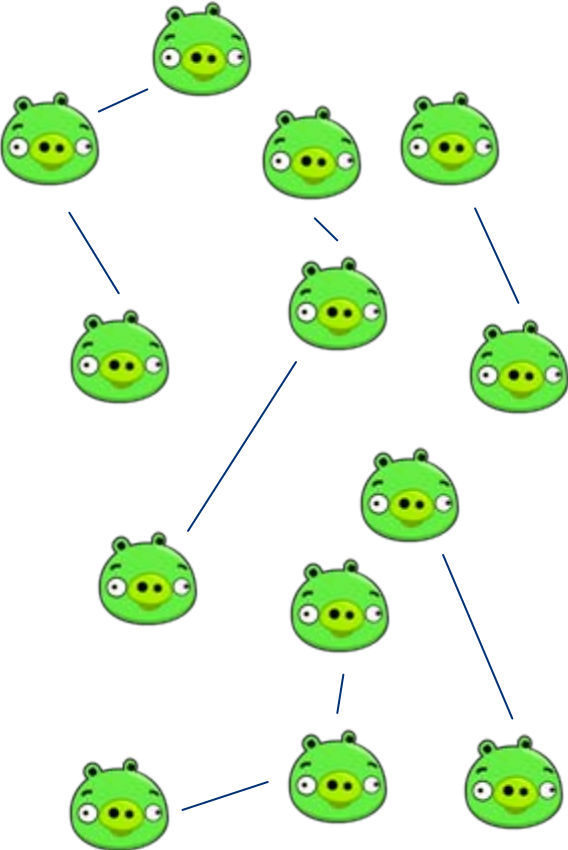


Low risk

# Assortative mixing

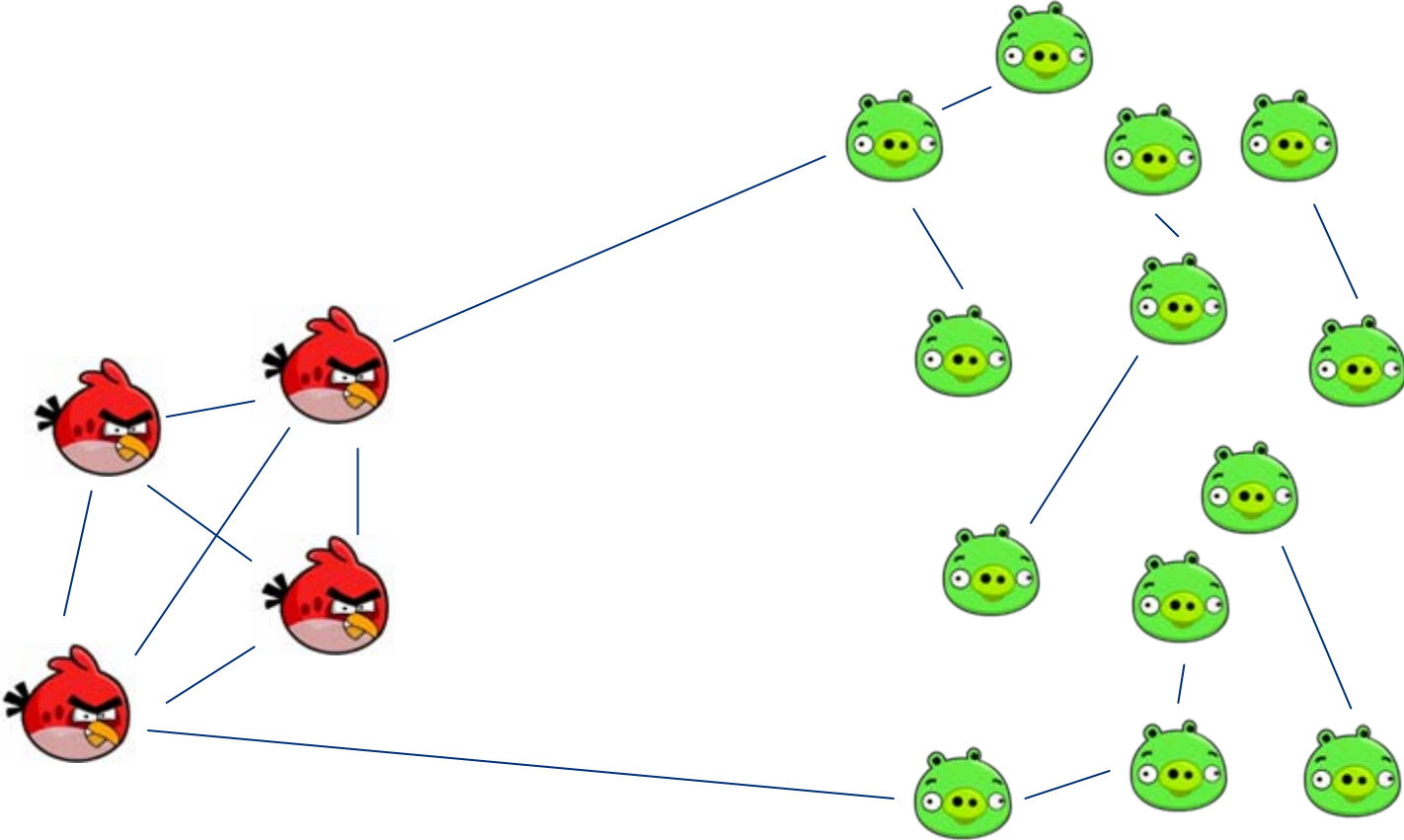


High risk



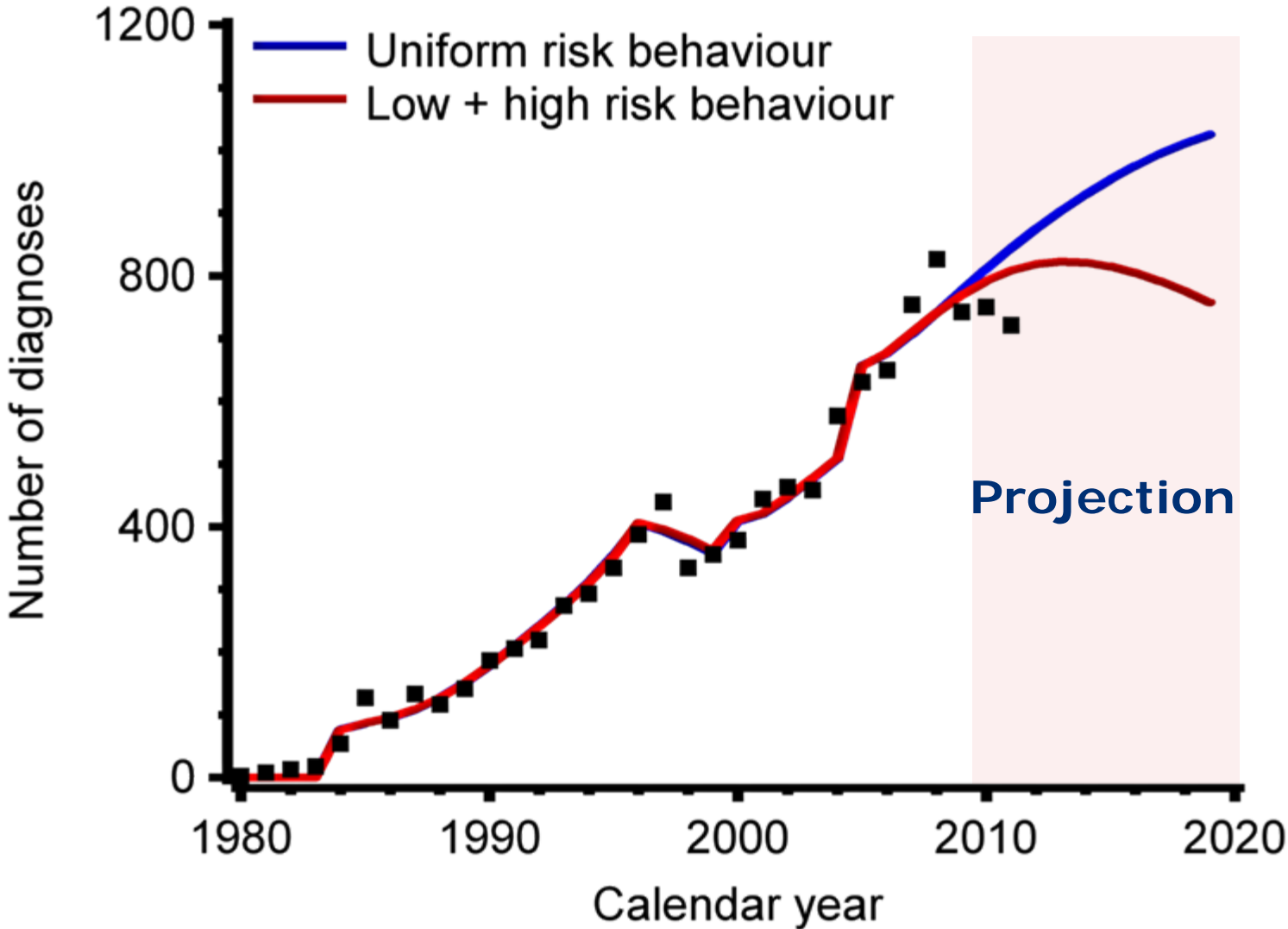
Low risk

# Proportionate mixing

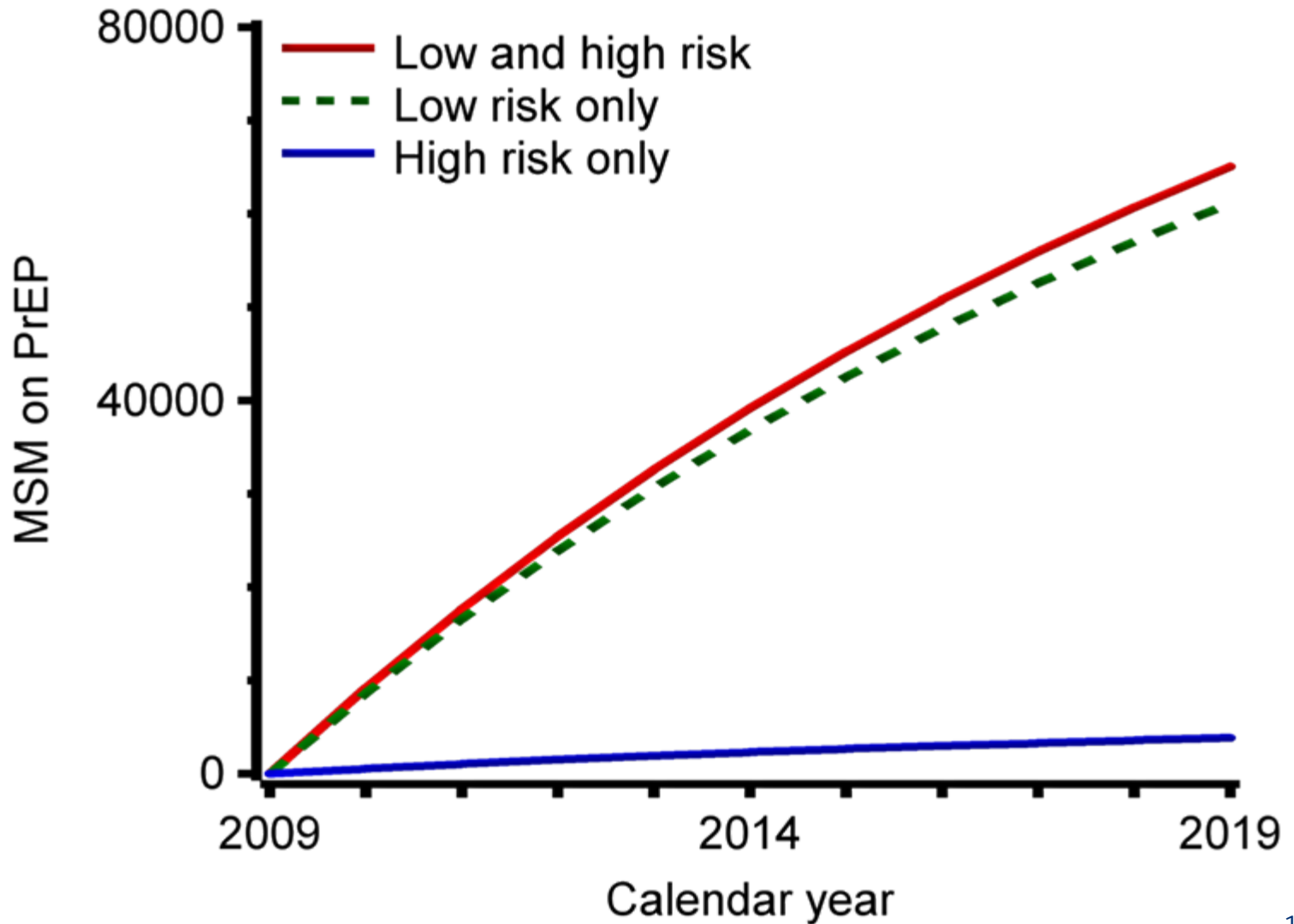


7%	Size	93%
38%	Partnerships	62%

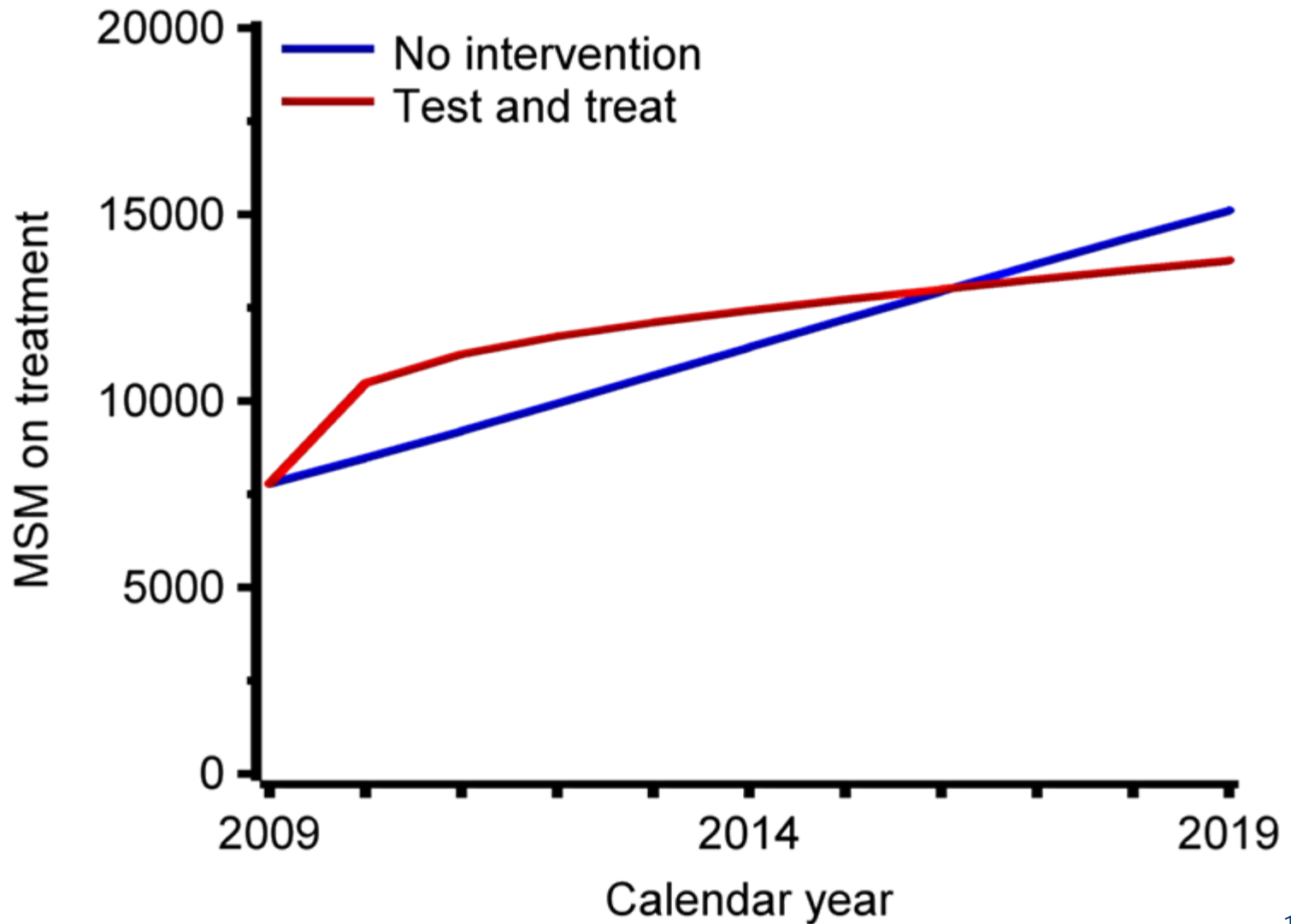
# Diagnoses over time



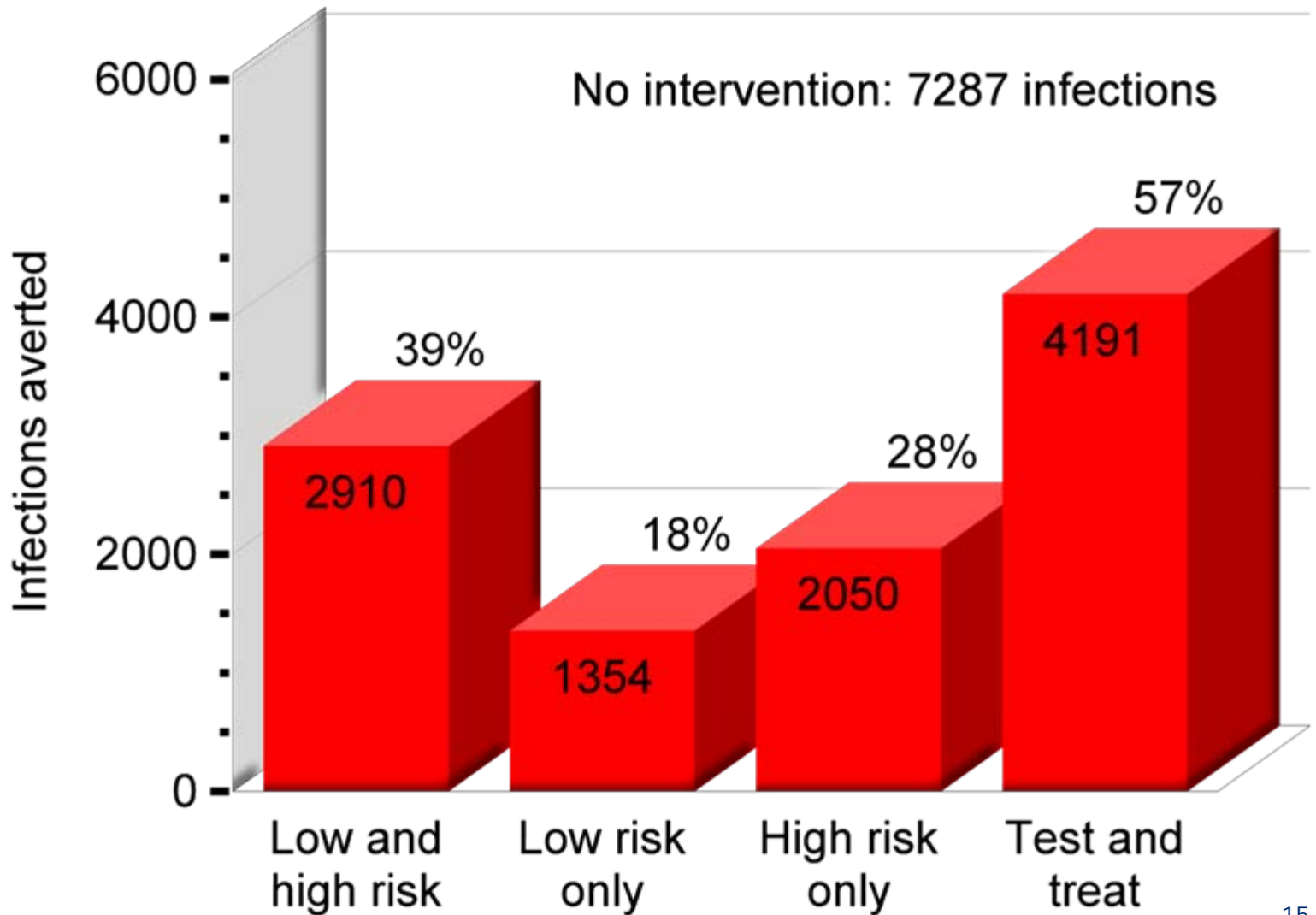
# MSM on PrEP



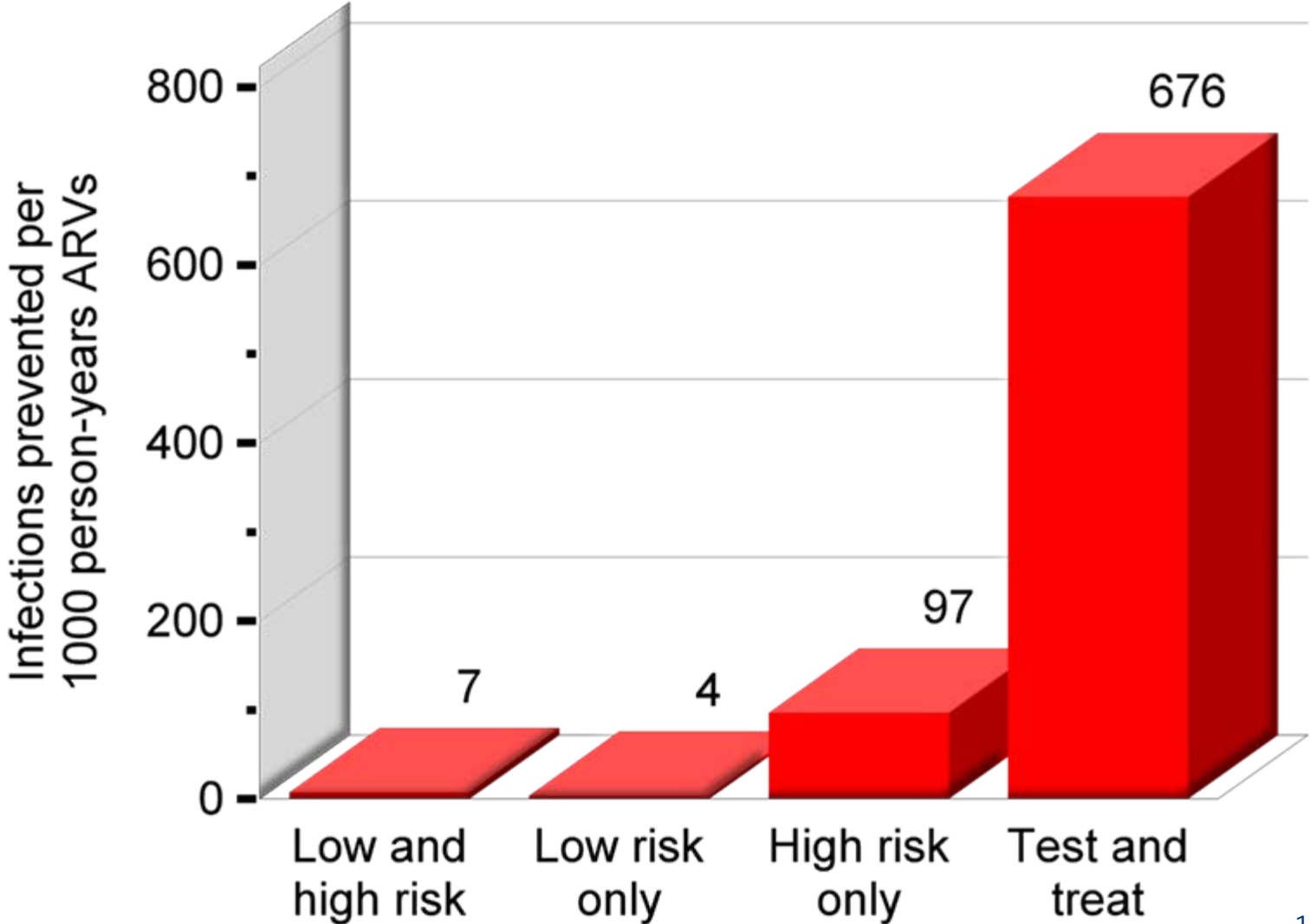
# MSM on treatment with 'test and treat'



# Infections averted 2010-2019



# Effectiveness





# Conclusion & Discussion

---

- 'Test and treat' most effective in reducing new number of HIV infections.
- PrEP may be a useful prevention measure when targeted to men with highest sexual risk behaviour.
- Danger of risk compensation. Did happen before!
- Implementation may be challenging.
- Use PrEP as part of combination prevention.

# Acknowledgements

---

## **Stichting HIV Monitoring, NL**

Rob van den Hengel

Daniela Bezemer

## **Imperial College, London, UK**

Frank de Wolf

This study was sponsored by



(project number 2011106)