



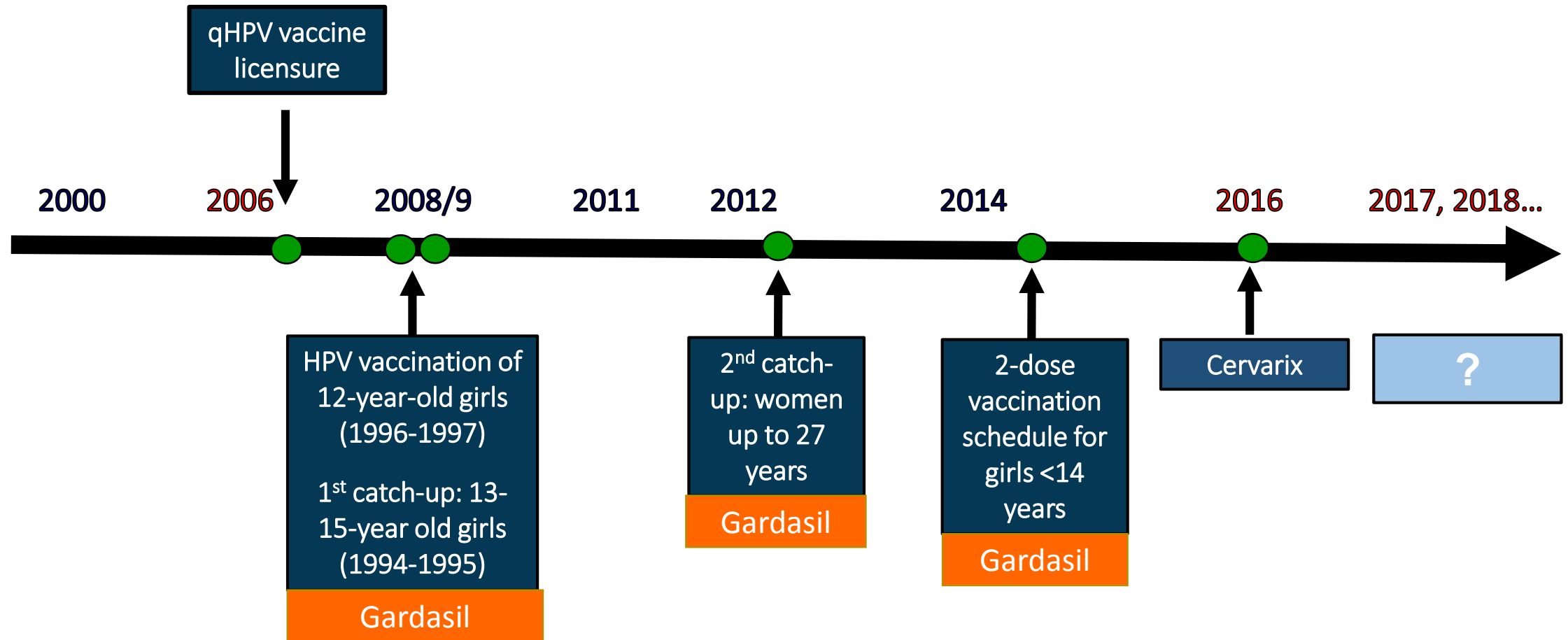
Progress achieved – real world impact from a Danish perspective

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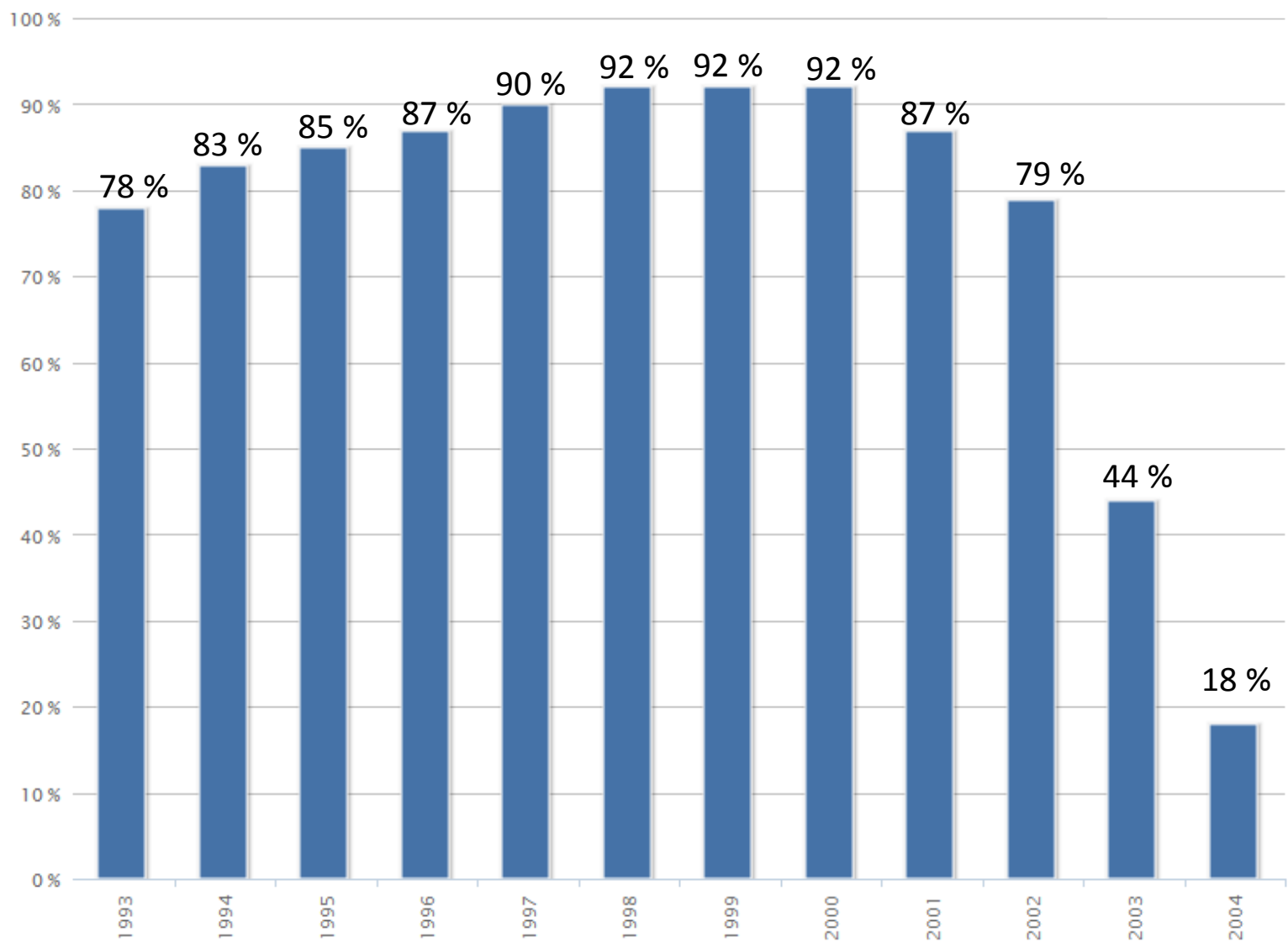
Disclosures

Lecture fees, advisory board fees from Merck and Sanofi Pasteur MSD, and unrestricted research grants through my institution from Merck

HPV vaccination in Denmark

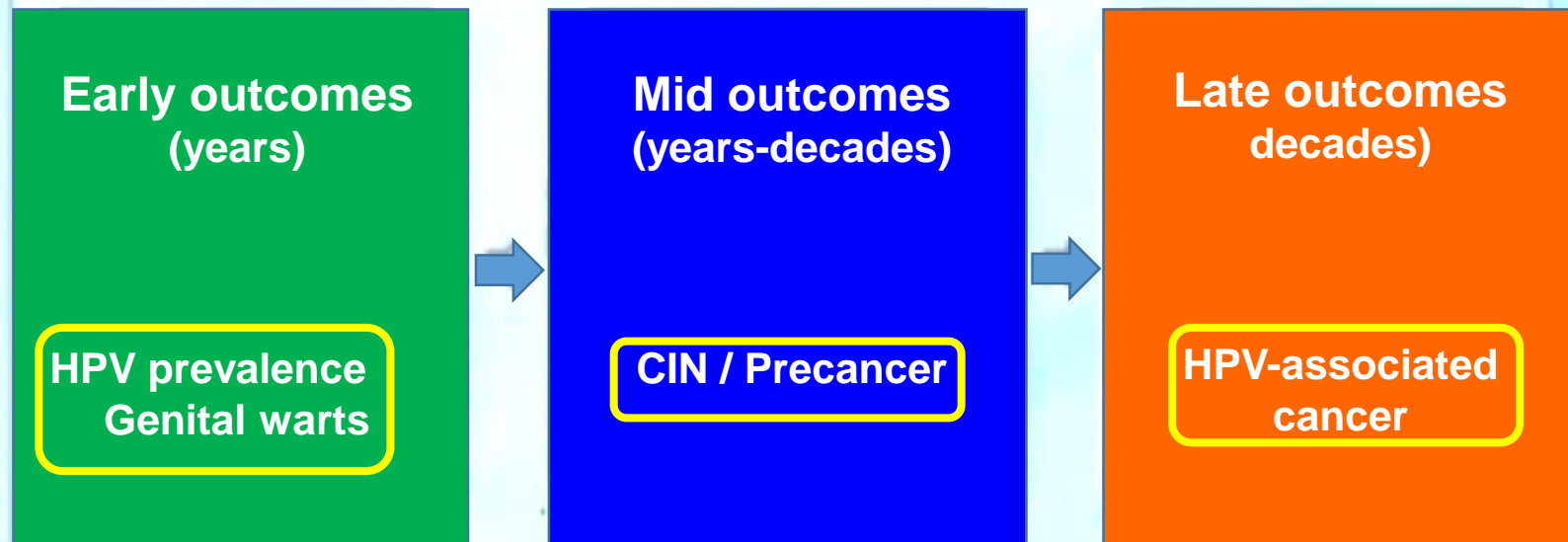


HPV vaccination coverage in Denmark



Real world Impact and Effectiveness

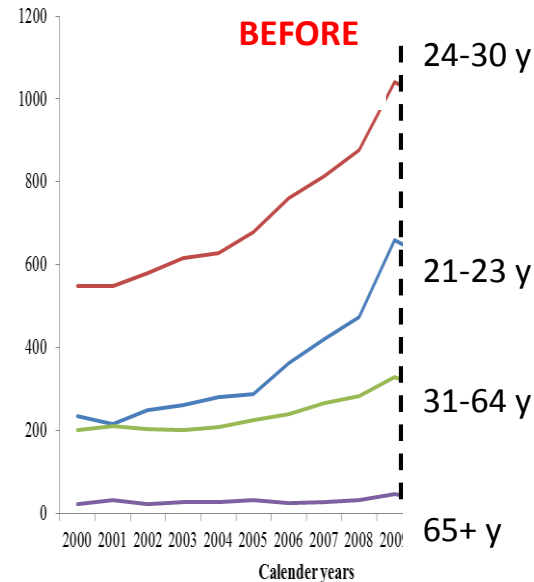
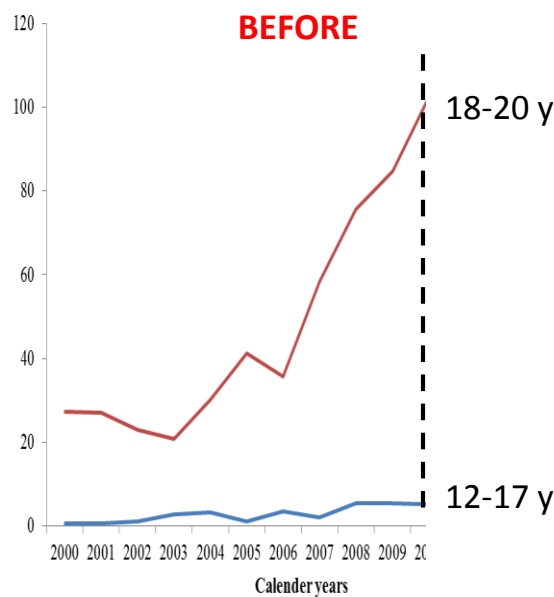
Monitoring HPV vaccination programs HPV-associated outcomes



Impact in population.....

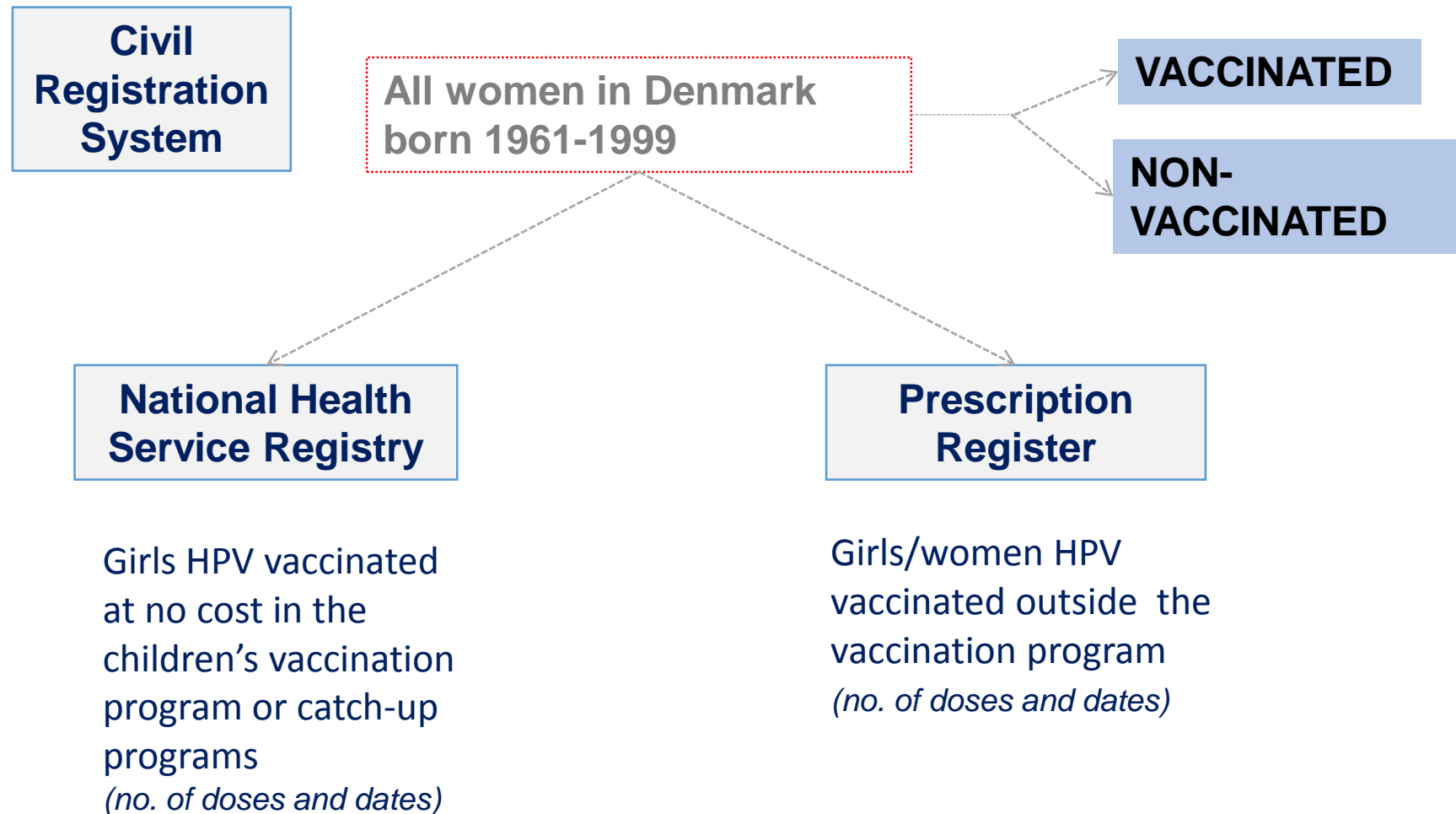
Incidence of CIN 2+ before and after start of HPV vaccination in Denmark

Incidence per 10⁵
women-years

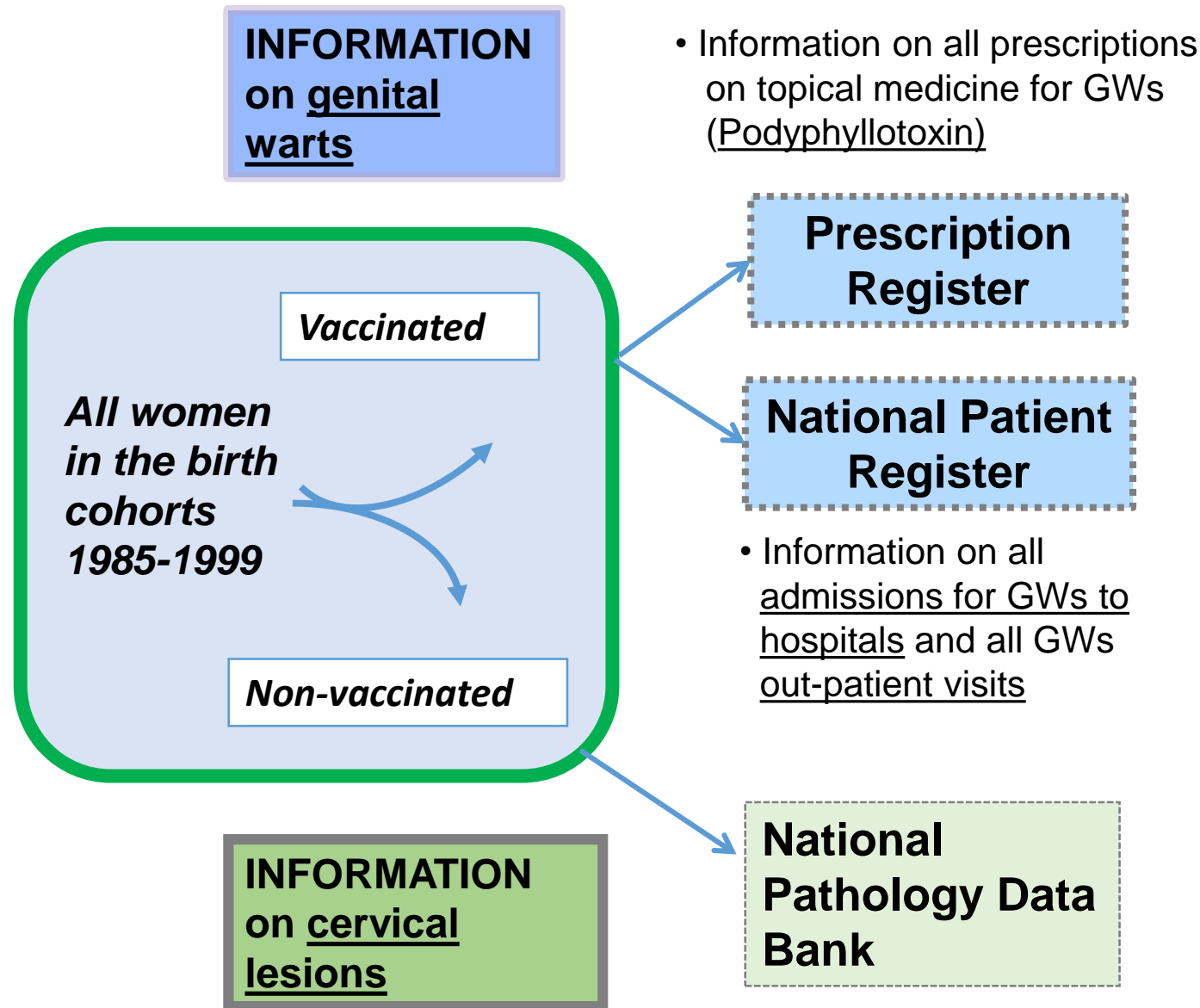


Effectiveness in population.....

Assessment of HPV vaccination status



Assessing occurrence of genital warts/cervical lesions



Risk for Genital Warts in Denmark

Risk among HPV-vaccinated girls vs unvaccinated girls,
stratified by birth cohort, Oct 2006 - May 2012
(Cox proportional hazard analysis)

Vaccination Coverage	Birth Cohort	Hazard Ratio	(95% CI)	P Value
14 %	1989–1990	0.62	(0.50–0.76)	< .001
27 %	1991–1992	0.25	(0.19–0.32)	< .001
88 %	1993–1994	0.22	(0.15–0.33)	< .001
90 %	1995–1996	0.12	(0.04–0.36)	< .001
87 %	1997–1999	-		

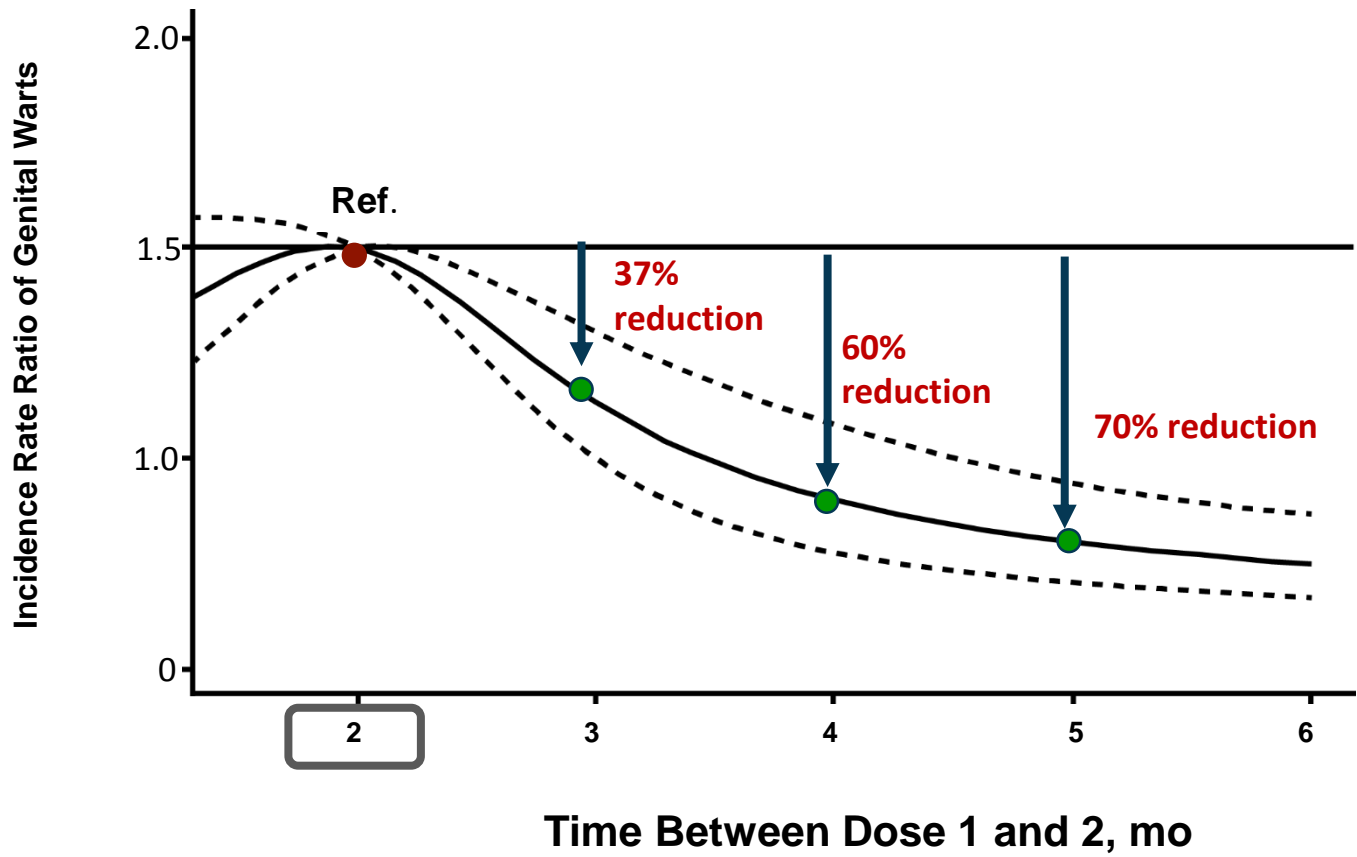
Risk for Cervical Lesions in Denmark

.... Risk of cervical abnormalities among HPV vaccinated girls versus unvaccinated girls stratified by birth cohort

(Cox proportional hazard analysis)

Vaccination Coverage	Birth Cohort	Type of Cervical Lesion			
		atypia+		CIN2 / CIN3	
		Hazard Ratio	P Value	Hazard Ratio	P Value
14 %	1989-90	0.75	< 0.001	0.88	0.32
27 %	1991-92	0.46	< 0.001	0.56	0.005
88 %	1993-94	0.40	< 0.001	0.27	0.005
90 %	1995-96	0.43	0.08	-	
87 %	1997-99	-		-	

Risk of genital warts after 2 Doses of qHPV with varying intervals



Thank you for the attention!