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Sexual Health

## **Supplementary Material**

## A long trend of sexually transmitted diseases before and after the COVID-19 pandemic in China (2010–21)

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Disease	Phase 2 (2019)	Phase 1(2010-2018)		Phase 3 (2020)		Phase 4 (2021)	
Disease	reported cases						
		IRR (95%CI)	P-value	IRR (95%CI)	P-value	IRR (95%CI)	P-value
AIDS	72630	0.72 (0.63-0.82)	< 0.001	0.88 (0.74-1.04)	0.14	0.85 (0.71-1.01)	0.07
Hepatitis B	1247092	0.96 (0.91-1.01)	0.09	0.91 (0.85-0.98)	0.01	0.99 (0.93-1.06)	0.82
Hepatitis C	260704	0.87 (0.82-0.93)	<0.001	0.89 (0.81-0.97)	0.008	0.94 (0.86-1.02)	0.16
Gonorrhea	120146	0.94 (0.89-0.99)	0.03	0.9 (0.83-0.97)	0.006	1.07 (0.99-1.14)	0.09
Syphilis	587402	0.79 (0.75-0.84)	<0.001	0.89 (0.83-0.96)	0.002	0.91 (0.85-0.98)	0.01

Supplementary Table S1. Sensitivity analysis for model-estimated incidence rate ratio (IRR) of five STDs

Generalized linear models (GLM) were used for estimating the IRRs of five STDs. The seasonality of the reported cases was adjusted by the harmonic function method in this model. IRR < 1 with P < 0.05 indicates a significant decline in incidence rate in the year 2020 compared to the year 2019. All p-values are two-sided and not adjusted for multiple comparisons. The reference period is the year 2019. Statistically significant reductions (IRR < 1) are displayed in bolded font.