

Supplementary Table 1 Cost-consequence analysis results: costs and outcomes (base-case)

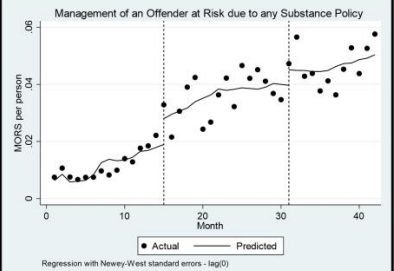
	Mean cost/outcome per person			Graphs from interrupted time series analysis
	Pre-announcement phase	Preparatory phase	Post-implementation phase	
Mean cost per person per month				
PiC outpatient visits †	£3.61	£2.76	£2.48	<p>Regression with Newey-West standard errors - lag(4)</p>
PiC inpatient stays †	£10.40	£6.94	£7.71	<p>Regression with Newey-West standard errors - lag(1)</p>

PiC mental health hospital stays †	£321	£370	£217	<p>Mental health hospital stay cost per person (£)</p> <p>Month</p> <p>Actual Predicted</p> <p>Regression with Newey-West standard errors - lag(4)</p>
PiC accident & emergency visits †	£1.53	£1.71	£1.46	<p>Accident and emergency visit cost per person (£)</p> <p>Month</p> <p>Actual Predicted</p> <p>Regression with Newey-West standard errors - lag(6)</p>
PiC ambulance use †	£0.74	£1.15	£1.35	<p>Ambulance use cost per person (£)</p> <p>Month</p> <p>Actual Predicted</p> <p>Regression with Newey-West standard errors - lag(0)</p>

PiC medication (nicotine dependence) †	£1.83	£2.39	£2.83	<p>Medication (nicotine dependence) cost per person (£)</p> <p>Month</p> <p>Actual Predicted</p> <p>Regression with Newey-West standard errors - lag(3)</p>
PiC medication (smoking related illness) †	£2.55	£0.88	£0.79	<p>Medication (smoking related illness) cost per person (£)</p> <p>Month</p> <p>Actual Predicted</p> <p>Regression with Newey-West standard errors - lag(0)</p>
PiC e-cigarettes †	N/A (not available to purchase from canteen)	£1.77	£18.26	<p>E-cigarette cost per person (£)</p> <p>Month</p> <p>Actual Predicted</p> <p>Regression with Newey-West standard errors - lag(1)</p>
PiC GP/nurse visits *	£3.64 (SD 10.84) n=2354	£4.32 (SD 23.54) n=1783	£4.77 (SD 26.65) n=1336	

Staff GP visits *	£3.03 (SD 8.26) n=991	£2.67 (SD 7.88) n=1001	£1.99 (SD 5.89) n=513	
PiC tobacco *	£24.93	£24.93	N/A (no longer available to purchase from canteen)	
Staff tobacco *	£16.91 (SD 64.28) n=993	£16.96 (SD 58.54) n=1008	£15.98 (SD 58.08) n=514	
Outcome per person				
Levels of second-hand smoke ($\mu\text{g}/\text{m}^3$) Mean PM_{2.5} (SD) across all prisons (not per person)*	38.44 (SD 55.54)	11.15 (SD 4.93)	3.14 (SD 5.06)	
Health utilities (PiC) Mean (SD) *	0.736 (0.248) n=2268	0.725 (0.246) n=1729	0.682 (0.270) n=1298	
Health utilities (staff) Mean (SD) *	0.859 (0.121) n=1002	0.862 (0.127) n=925	0.863 (0.135) n=455	
Prisoner-on-staff assaults † ‡	Data not available	0.004	0.004	<p>Prisoner-on-staff assaults per person</p> <p>Month</p> <p>Actual Predicted</p> <p>Regression with Newey-West standard errors - lag(0)</p>

Prisoner-on-prisoner assaults † ‡	Data not available	0.029	0.040	<p>Prisoner-on-prisoner assaults</p> <p>Prisoner on prisoner assaults per person</p> <p>Month</p> <p>● Actual — Predicted</p> <p>Regression with Newey-West standard errors - lag(0)</p>
All-cause mortality (deaths in custody) † ‡	0.0003	0.0003	0.0004	<p>All cause mortality (deaths in custody)</p> <p>All cause deaths in custody per person</p> <p>Month</p> <p>● Actual — Predicted</p> <p>Regression with Newey-West standard errors - lag(0)</p>
Fires † ‡	0.0009	0.0016	0.0007	<p>Fires</p> <p>Fires per person</p> <p>Month</p> <p>● Actual — Predicted</p> <p>Regression with Newey-West standard errors - lag(0)</p>

MORS † †	0.011	0.036	0.046	
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† time series analysis; * regression framework; † mean number of events per person in custody per month; MORS - The Management of an Offender at Risk due to any Substance; PiC – person in custody; SD – standard deviation