



This analysis models the health & economic benefits of enabling substantial improvement in secondary prevention of cardiovascular disease (CVD).

Increase in the uptake of 4 high impact but underused treatments is modelled.

3 ambition scenarios are considered: Step Change Improvement, Advanced Improvement and Full Uptake.

The headline table below shows the impact of achieving Step Change – defined as a realistic near-term improvement ambition.

South West London ICB Year 3 – Step Change Scenario	
Events prevented: <ul style="list-style-type: none"> • 211 Heart attacks • 401 Strokes • 646 Heart failure admissions • 50 End stage kidney disease 	1,308 events* ~ 9,976 bed days (excl ESKD) <small>*Total events may not match due to rounding</small>
Health/social care savings	£25 million
Productivity gains	£28 million
Benefit to cost ratio	3.9 <small>(Over £3 saved for every £1 spent, with break-even for NHS in first year of Step Change)</small>

For full report and detailed results for England and every ICB, visit:

www.into-action.health/impactreport

A realistic step change improvement in secondary prevention will prevent thousands of serious cardiovascular events, deliver huge savings in health and social care, and add £ billions to the national economy in 3 years.

The CVD Prevention Challenge

Secondary prevention – using medication to treat high risk conditions like blood pressure and cholesterol – is very effective at preventing cardiovascular disease. But under use of NICE recommended, high impact treatments that prevent CVD is substantial and longstanding – with little change over many years.

The CVD ACTION Health Economic Impact Model

- **4 high risk conditions:** high blood pressure, high cholesterol, chronic kidney disease and diabetes
- **4 high impact treatments** that are NICE recommended but substantially under-used (Blood pressure lowering, cholesterol lowering, renin angiotensin inhibitors, SGLT2 inhibitors)
- **4 major outcomes:** heart attack, stroke, heart failure, end stage kidney disease
- **3 scenarios:**
 1. **Step Change** as the minimum realistic near-term improvement level. For example, step change for blood pressure = 80% patients treated to target.
 2. **Advanced** (representing substantial improvement on the way to Full Uptake)
 3. **Full Uptake** (not fully achievable in practice as medicines will not be appropriate for every patient)
- **Modelled costs include** use of CVD ACTION, structured support for primary care transformation and increased medication use (>90% of the total costs).

CVD ACTION targets the HOW of optimising prevention in the real world, with 3 essential pillars to enable primary care teams to work differently:

1. **Smart data** - routinely detect patients who are not on optimal treatment, and prioritise for optimisation
2. **Structured support for transformation** enabling teams to adapt workforce and pathways to optimise at scale and within capacity
3. **Structured support for delivery** – supporting teams to set and achieve step-change objectives in secondary prevention

For more information on CVD ACTION contact Rosa@Into-Action.Health

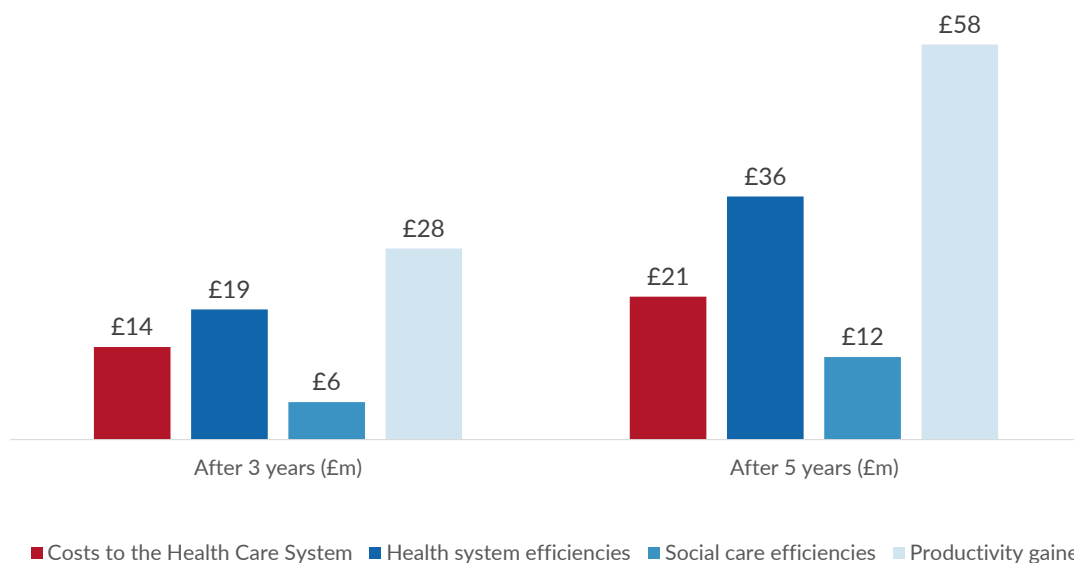


CVDACTION Modelled Impact (Step Change Scenario)

Headline Costs and Benefits

Location	South West London Integrated Care Board
CVDACTION optimisation cohort	All
Number of patients optimised in year 1	49,543

	After 3 years	After 5 years
Events Prevented		
Myocardial infarctions	211	344
Strokes (ischaemic)	401	648
Heart failure admissions	646	1,028
End stage kidney disease	50	81
Total	1,308	2,100
Costs to the Health Care System	£14m	£21m
Benefits		
Health system efficiencies	£19m	£36m
Social care efficiencies	£6m	£12m
Productivity gained	£28m	£58m
Total	£53m	£106m
Total Benefits to Costs Ratio (Gross)	3.9	5.0



All costs and benefits are discounted



CVDACTION: Costs and Benefits by Year

Location: South West London Integrated Care Board

Scenario: Step Change

RESULTS (CUMULATIVE)

	After 1 year	After 2 years	After 3 years	After 4 years	After 5 years	After 10 years	After 15 years
Number avoided with CVDACTION							
Myocardial Infarctions	71	142	211	279	344	656	924
Strokes	137	271	401	525	648	1,206	1,690
Heart failure admissions	225	441	646	841	1,028	1,861	2,534
End stage kidney disease	17	34	50	66	81	147	202
Costs of CVDACTION and treatment (discounted)							
CVDACTION	£355,122	£355,122	£355,122	£355,122	£355,122	£355,122	£355,122
Transformation cost	£443,903	£443,903	£443,903	£443,903	£443,903	£443,903	£443,903
Treatment	£4,612,033	£8,819,296	£12,815,319	£16,612,760	£20,222,961	£35,821,264	£48,100,685
Total	£5,411,058	£9,618,322	£13,614,345	£17,411,785	£21,021,987	£36,620,290	£48,899,710
Value by economic category (discounted)							
Health costs avoided	£5,275,264	£11,746,375	£19,147,372	£27,189,800	£35,749,021	£81,861,724	£126,467,224
Social care costs avoided	£1,091,035	£2,966,598	£5,506,867	£8,593,337	£12,143,404	£34,156,316	£58,622,843
Informal care costs avoided	£5,871,317	£13,736,478	£23,291,206	£34,162,660	£46,202,923	£116,296,561	£190,711,173
Lost productivity avoided	£568,901	£2,239,082	£4,806,094	£8,077,746	£11,902,312	£35,730,149	£61,488,703
Total	£12,806,517	£30,688,533	£52,751,539	£78,023,543	£105,997,660	£268,044,751	£437,289,944
Value by clinical event (discounted)							
Myocardial Infarctions	£1,072,133	£2,420,900	£3,983,169	£5,722,165	£7,581,802	£17,966,720	£28,279,583
Strokes	£10,295,031	£23,756,423	£39,901,040	£58,114,326	£78,180,816	£193,928,126	£315,937,404
Heart failure admissions	£695,348	£2,262,163	£4,496,534	£7,228,213	£10,338,496	£28,591,129	£47,172,291
End stage kidney disease	£744,005	£2,249,048	£4,370,796	£6,958,839	£9,896,546	£27,558,775	£45,900,666
Total	£12,806,517	£30,688,533	£52,751,539	£78,023,543	£105,997,660	£268,044,751	£437,289,944
Benefit to cost ratio (Gross)							
Health costs avoided	1.0	1.2	1.4	1.6	1.7	2.2	2.6
Social care costs avoided	0.2	0.3	0.4	0.5	0.6	0.9	1.2
Informal care costs avoided	1.1	1.4	1.7	2.0	2.2	3.2	3.9
Lost productivity avoided	0.1	0.2	0.4	0.5	0.6	1.0	1.3
Total	2.4	3.2	3.9	4.5	5.0	7.3	8.9

*Numbers less than 10 suppressed



CVDACTION Optimisation Cohorts Analysis After 3 Years

Location **South West London Integrated Care Board**

Step Change Scenario After 3 Years

Optimisation Cohort	Heath System Costs	CVD Events Prevented ¹	Health System Efficiencies	Social Care Efficiencies	Informal Care Avoided	Productivity Gained	Total Benefits
Hypertension							
1. Blood pressure not treated to target	£711,518	494	£7,461,424	£2,857,949	£12,110,820	£1,682,323	£24,112,516
Cholesterol							
2. CVD not on Lipid Lowering Therapy (LLT)	£164,092	56	£1,063,010	£451,593	£1,913,642	£204,155	£3,632,399
3. CVD on suboptimal dose or intensity of statin	£256,679	51	£804,518	£241,278	£1,018,939	£172,052	£2,236,788
4. CVD on max statin but not treated to target	£491,701	21	£401,397	£128,709	£549,180	£76,211	£1,155,497
Chronic Kidney Disease							
5. RAA indicated but not prescribed	£28,199	28	£572,252	£97,239	£418,247	£164,819	£1,252,557
6. SGLT2i indicated but not prescribed	£3,110,776	133	£1,125,834	£0	£0	£407,368	£1,533,202
7. CVD and Statin not prescribed	£30,035	18	£373,414	£161,296	£690,005	£66,843	£1,291,558
8. BP not treated to target	£41,217	54	£834,366	£324,246	£1,368,044	£189,167	£2,715,824
Diabetes							
9. RAA indicated but not prescribed	£262,239	175	£3,239,560	£594,540	£2,501,330	£937,386	£7,272,817
10. SGLT2i indicated but not prescribed	£8,385,565	177	£1,567,978	£0	£0	£531,116	£2,099,094
11. DM and HTN with BP not treated to target	£111,261	93	£1,521,304	£575,366	£2,407,908	£339,785	£4,844,362
12. DM with CVD not on LLT	£21,062	10	£182,314	£74,652	£313,091	£34,868	£604,924
Total	£13,614,345	1,310	£19,147,372	£5,506,867	£23,291,206	£4,806,094	£52,751,539

All costs and benefits are discounted

¹ Events include heart attacks, strokes, heart failure admissions and end stage kidney disease.