The science of habit formation

Vitality

Adrian Gore



The Vitality dataset stands alone in its uniqueness

The Vitality Shared-Value Model is globally relevant



Make people healthier and enhance and protect their lives



Vitality's rich and comprehensive dataset allows for a sophisticated Vitality understanding of behaviour and the impact on mortality





The effect of behaviour change exceeds expectations

Behaviour change has a causal impact on health and mortality and the impact increases with age



Understanding the impact of physical activity on mortality after adjusting for confounding factors



Physical activity has a significant impact on mortality and it increases by age





Physical impact has a significant impact on healthcare costs



the 45-65 age group Relative reduction for the 45-65 age group

-36% -38% -58 -58 Relative mortality for the 65+ age group



Relative reduction for the 65+ age group



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The effects of behaviour change increase with age and chronicity





An estimate of the average number of years of life a person has remaining at a given age.



+90%

increase in healthspan





The power of physical activity and the paradox of 10,000 steps

Where does the 10,000-step concept come from?





*In 1965, a Japanese company created a device called the Manpo-meter as a marketing tool, which directly translates to 10,000-step meter*¹



"...more steps per day (up to about 10 000 steps) was associated with declines in mortality risks and decreased cancer and CVD incidence."

Study published by the Journal of American Medical Association (JAMA) in JAMA Neurology and in JAMA Internal Medicine



"I walked 10,000 steps everyday for a month... and it changed my life."

Cosmopolitan Magazine

23 January 2024

"10k Steps A Day" videos collectively have **22.8 million** views on TikTok

1 Source: Havard Medical School

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Steps are a standard unit of currency for physical activity



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What is the data telling us?

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Every step counts towards a better life





Average daily steps

Every step counts towards a better life







Making behaviour habitual – how long and how?

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Habits are key to changing behaviour





"A habit is a routine or behavior that is performed regularly – and, in many cases, automatically"



"...strong habits – behaviors you do without thinking, like holding a pencil or tying your shoes."



"When a habit emerges, the brain stops fully participating in decision making. It stops working so hard, or diverts focus to other tasks. So unless you deliberately fight a habit – unless you find new routines – the patter will unfold automatically."

Atomic Habits James Clear

Tiny Habits BJ Fogg

The power of habit Charles Duhigg

Using habits to understand behaviour change





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Using data to understand the process of habit formation



It only takes 7-15 weeks to form a habit





Overall

Number of weeks taken to form a habit

It only takes 7-15 weeks to form a habit





Number of weeks taken to form a habit

Number of weeks taken to form a habit

Chronicity



Number of weeks taken to form a habit

Don't increase your daily steps by more than 800 per week





Average change in steps per week

Don't increase your daily steps by more than 800 per week





Habit laddering gives a scientific approach to the formation of habits

7,500

avg daily

Takes up to 10 weeks to build a habit

Don't increase your daily steps by more than 800 per week

03

Reach 5K or 7.5K daily steps depending on where you are

Pick your target

Current	Та	arget
Less than 5K	→ 5K a	avg daily
Less than 7.5K	→ 7.5	<avg daily<="" th=""></avg>

Calculate how to get there

How many steps on average to increase each week

Strong good habits have powerful properties

Good habits are durable and tend to last longer than bad habits

The half-life of a habit

Bad habits are more malleable, good habits last longer

Good habits are resilient and sustain post shock

Change in member habits post-pandemic compared to pre-pandemic

Percentage maintaining habit post-pandemic for different habit types

Good habits are protective in lowering disease risk

Good habits are expansive and associated with other good habits

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Good habits have a profound impact on society

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NHS in-hospital costs could be reduced by £15 billion

Change in healthcare costs for individuals who form weak and strong exercise habits (vs no habit)

Significant impact on society

£15 billion

reduction in NHS

in-hospital costs

E LONDON SCHOO

OF ECONOMICS AND POLITICAL SCIENCE

16% reduction if:

If **50% of the inactive UK population**¹ forms a consistent habit of **walking at least 5 000 steps once a week;**

and

All of the insufficiently active UK population¹ forms a consistent habit of walking at least 5 000 steps 3x a week

¹ 35% of the UK population are assumed to be inactive and 49% insufficiently active

Takeouts

		The Vitality dataset stands alone in its uniqueness	Due to our unique data set, we have distinctive insight into the impact of behaviour change; and how to make healthy habits habitual – in terms of how long healthy habits take to form, and the best approach to build sustainable habits
Assume monorary, for one wild is approximately a final management of the second	Annual matches for the Galaxy and Table and Ta	The effect of behaviour change exceeds expectation	Physical activity reduces healthcare costs by up to 25% and lowers the risk of death by up to 60%. The effects also increase with chronicity, and massively so at older ages – it's never too late to start!
	улар (1997) 1970 - Пара Сарана 1970 - Пара Сарана	The paradox of 10,000 steps	While every step counts towards a better life, the ten thousand step target is a myth: it turns out mortality impacts are greatest at 7,500 steps (plateauing thereafter) – and this holds true across age, gender and chronicity
State of the state		Habits are quicker and easier to form than we think	Habits take only 7-10 weeks to form irrespective of age, gender and chronicity. You also don't need to make massive changes: a gradual approach is more sustainable - not exceeding 800 average steps per week in increments is key (habit laddering)
The hard fift of a hald: By the average multiple of the hald in the second sec	Construct Construction Const	Good habits are durable, protective and expansive	They are resilient and long lasting, lower disease risk, and are associated with other good habits
reduction in NHS in-hospital costs	5% reduction if: Kon of the inaction UK population! forms opp once a veeke: and I of the inaufficiently active UK publication?forms a constant hals of alking at least 5 000 steps 3x a week	Increasing steps has notable social implications	This profoundly expands healthy life years and hence, significantly reduces healthcare costs at a societal level. In the case of the NHS, a 16% reduction in in-hospital costs can be achieved by getting a portion of inactive population to build a consistent habit of walking

THANK YOU

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