

GLP-1 at the Two-Year Mark: Lessons, Impact, and What's Next

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Objectives for today

- **Forecasting the future:** How will GLP-1 impact life expectancy?
- **Weight loss without lifestyle change:** What does that mean for long-term risk?
- **Cover dilemmas:** From under disclosure to binge users , how will this reshape claims and underwriting across our products?
- **Surprising use cases:** beyond obesity –what else is emerging?
- **Imagine a world beyond just BMI?** Exploring smarter metrics
- **Clinical environment and lack of F2F health interactions**

GLP-1 Headline News

BBC

Home News Sport Business Innovation Health Culture Arts Travel Earth Audio Video

Price of Mounjaro to be discounted in UK pharmacies

GPs can now prescribe weight loss jabs under strict rules

People need support to keep weight off after treatment

Thousands of Ozempic lawsuits cleared to proceed in federal court

Weight-loss drugs draw thousands of lawsuits alleging serious harm

Trump strikes deal with Ozempic and Mounjaro makers to cut prices of obesity injections

'SIGNIFICANT CONCERN' Urgent warning over deadly fake weight loss jabs flooding the UK as crime gangs make dodgy drugs on 'industrial scale'

Weight management drugs are no magic bullets for treating obesity

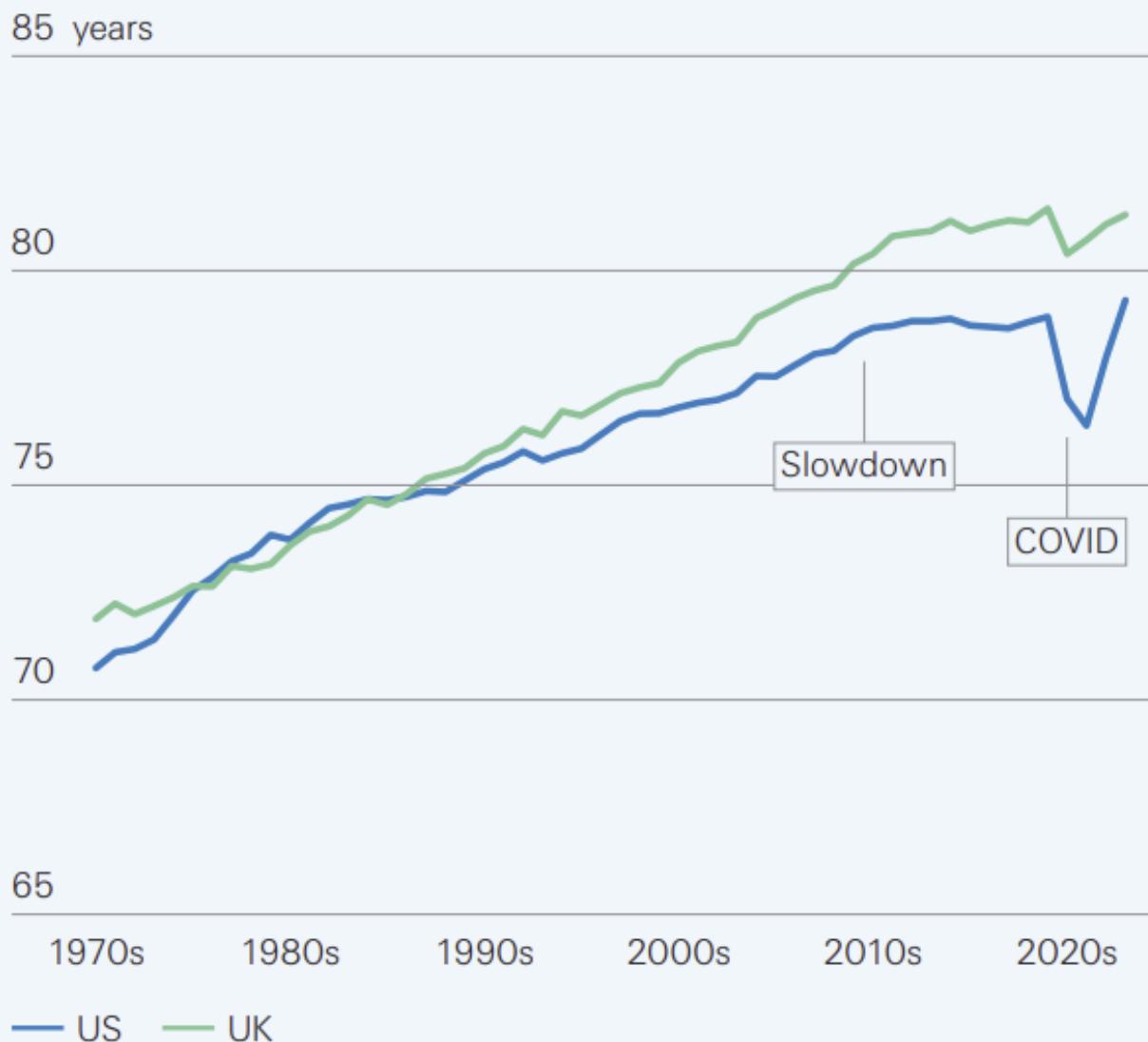
Weight loss jabs affecting Greggs, boss says



Forecasting the future: How will GLP-1 drugs change outcomes?

Figure 1

Left: Life expectancy in years in the US and UK. **Right:** US general population obesity and morbid obesity



Source: (left) NHANES, (right) Our World in Data



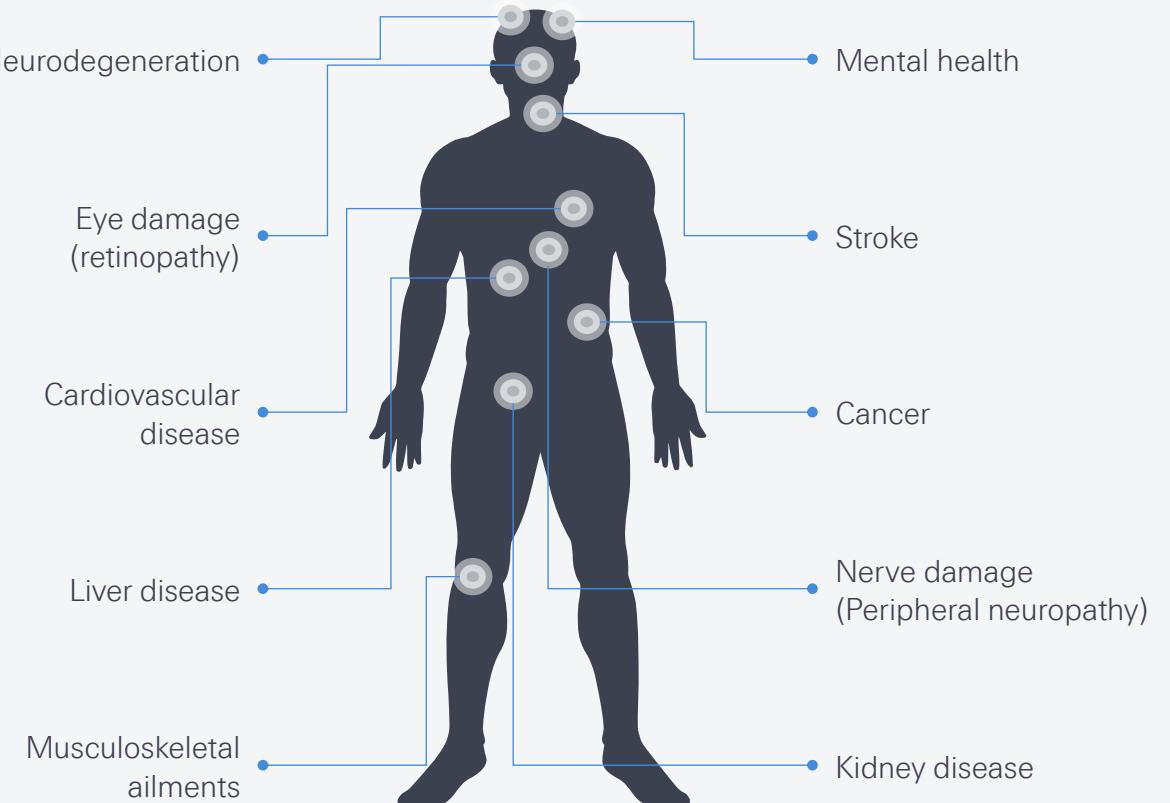
The pathway of metabolic ill health doesn't have to lead to morbidity and mortality



Growing mortality & morbidity risk



Elevated disease risks from obesity



Early signs: GLP-1 drugs impact several common risk factors for major causes of morbidity and mortality

● Benefits of GLP-1 drugs for weight loss

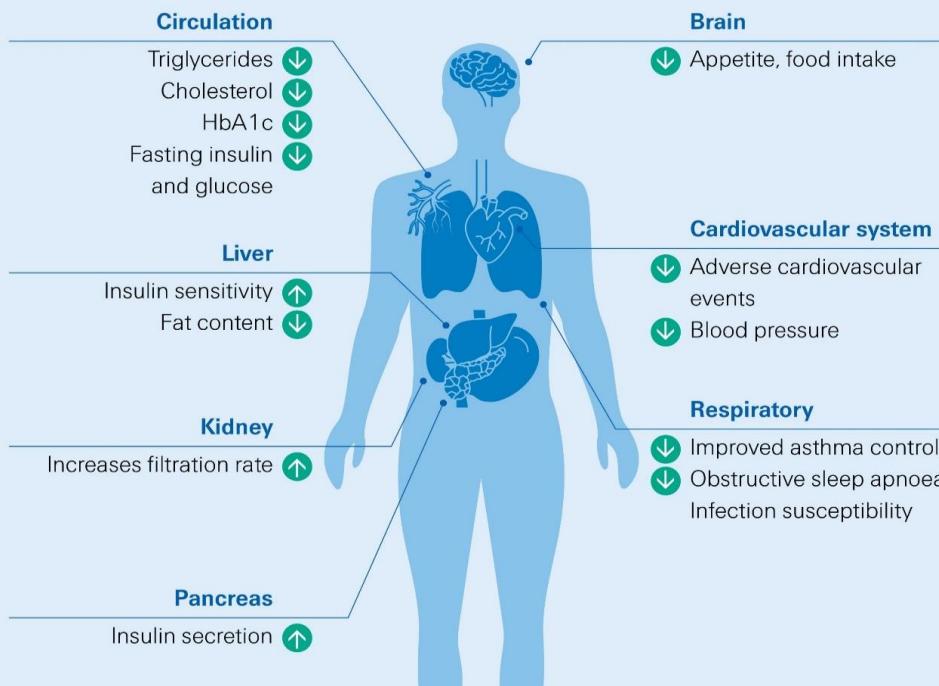


Table 1. Completed cardiovascular (or HF-related) outcome trials with incretin-based therapy.

Trial (Year)	Agent/Dose	Study Population (N)	Primary Outcome (3-Point MACE Unless Stated)	Key CV/HF Findings	Key Ref.
LEADER (2016)	Liraglutide 1.8 mg qd	9340 T2DM + high CV risk	↓ MACE 13% (HR 0.87)	↓ CV death 22%, ↓ all-cause mortality 15%	[6]
SUSTAIN-6 (2016)	Semaglutide 0.5/1 mg qw	3297 T2DM	↓ MACE 26% (HR 0.74)	↓ stroke 39%	[7]
EXSCEL (2017)	Exenatide 2 mg qw	14,752 T2DM	NS 9% MACE↓ (HR 0.91)	↓ all-cause mortality in sub-groups	[17]
HARMONY (2018)	Albiglutide 30–50 mg qw	9463 T2DM + ASCVD	↓ MACE 22% (HR 0.78)	Driven by MI ↓	[18]
REWIND (2019)	Dulaglutide 1.5 mg qw	9901 T2DM (31% ASCVD)	↓ MACE 12% (HR 0.88)	Consistent across MI/stroke	[8]
AMPLITUDE-O (2021)	Efpeglenatide 4–6 mg qw	4076 T2DM	↓ MACE 27% (HR 0.73)	↓ stroke & HF events	[19]
ELIXA (2015)	Lixisenatide 20 µg qd	6068 T2DM + recent ACS	Neutral (HR 1.02)	Heterogeneous class effect	[20]
STEP-HFpEF (2023)	Semaglutide 2.4 mg qw	529 obese HFpEF (±T2DM)	KCCQ +16.6 pts†	↓ HF hospitalisation (HR 0.79)	[11]
SELECT (2023)	Semaglutide 2.4 mg qw	17,604 obese, non-DM + ASCVD	↓ MACE 20% (HR 0.80)	Benefit in primary prevention	[12]
SURPASS-CVOT	Tirzepatide 10/15 mg qw	13,299 T2DM + high CV risk	Non-inferior vs dulaglutide; (HR 0.92)	Secondary analysis → significant-cause death ↓	[21]
SOUL (2025)	Oral semaglutide	9650 T2DM + ASCVD/CKD	↓ MACE 14% (HR 0.86)	Secondary analysis →	[22]

MACE, Major Adverse Cardiovascular Event; CV, Cardiovascular; HF, Heart Failure; T2DM, Type 2 Diabetes Mellitus; ASCVD, Atherosclerotic Cardiovascular Disease; MI, Myocardial Infarction; ACS, Acute Coronary Syndrome; KCCQ, Kansas City Cardiomyopathy Questionnaire; CKD, Chronic Kidney Disease.

GLP-1 Agonists in Cardiovascular Diseases: Mechanisms, Clinical Evidence, and Emerging Therapies

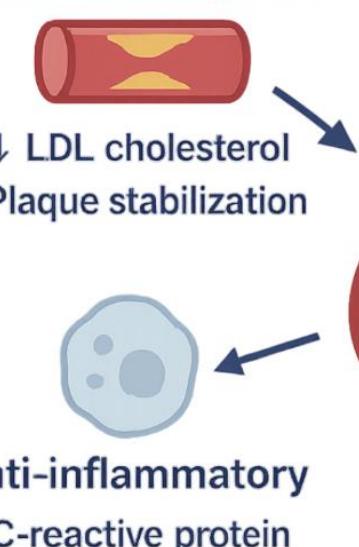
by Han-Mo Yang 

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J. Clin. Med. **2025**, *14*(19), 6758; <https://doi.org/10.3390/jcm14196758>



Table 1. Completed cardiovascular (or HF-related) outcome trials with incretin-based therapy.

Trial (Year)	Agent/Dose	Anti-atherogenic	Endothelial improvement	Key CV/HF Findings	Key Ref.
LEADER (2016)	Liraglutide 1.8 mg qd	93		↓ MACE 20% (HR 0.80), ↓ CV death 22%, ↓ all-cause mortality 15%	[6]
SUSTAIN-6 (2016)	Semaglutide 0.5/1 mg qw	32		Stroke 39%	[7]
EXSCEL (2017)	Exenatide 2 mg qw	14		All-cause mortality in sub-groups	[17]
HARMONY (2018)	Albiglutide 30–50 mg qw	94		Death by MI ↓	[18]
REWIND (2019)	Dulaglutide 1.5 mg qw	99		Consistent across MI/stroke	[8]
AMPLITUDE-O (2021)	Efpeglenatide 4–6 mg qw	40		Stroke & HF events	[19]
ELIXA (2015)	Lixisenatide 20 µg qd	60		Heterogeneous class effect	[20]
STEP-HFpEF (2023)	Semaglutide 2.4 mg qw	52		HF hospitalisation (HR 0.79)	[11]
SELECT (2023)	Semaglutide 2.4 mg qw	17		Benefit in primary prevention	[12]
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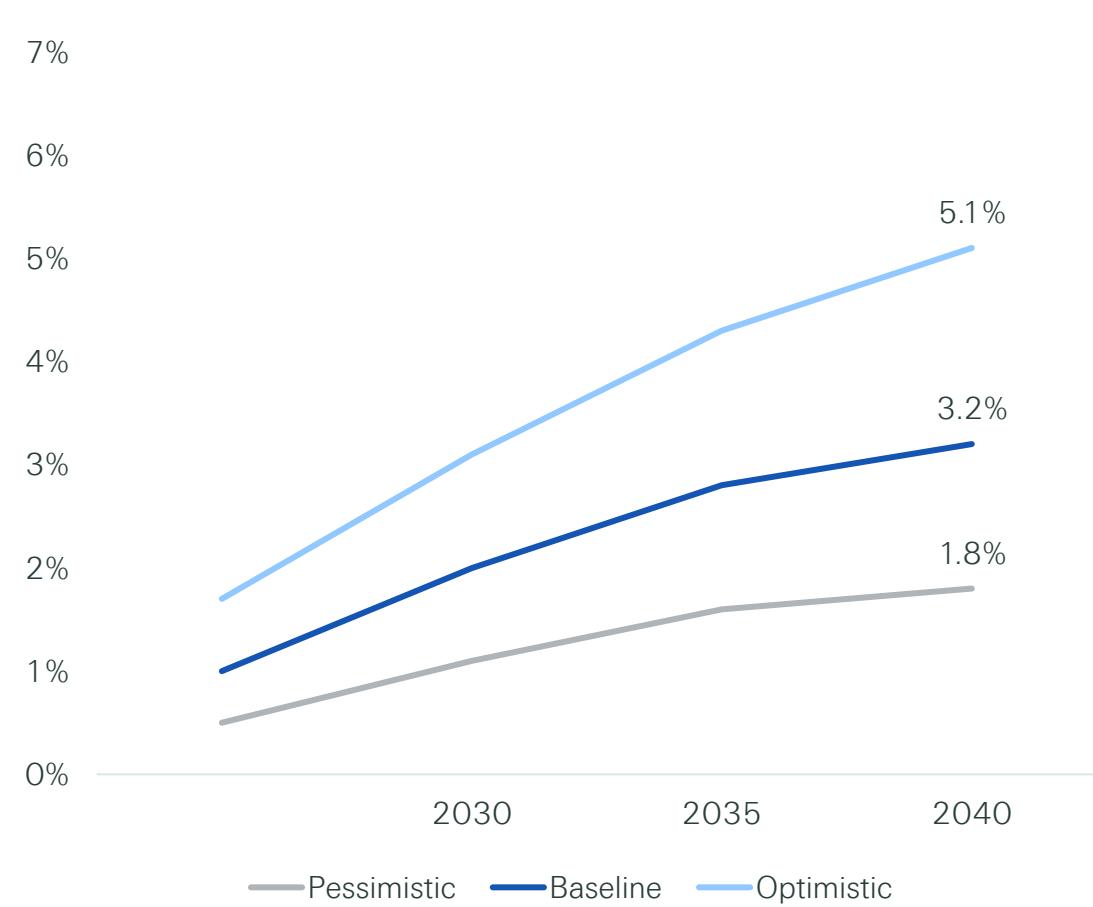
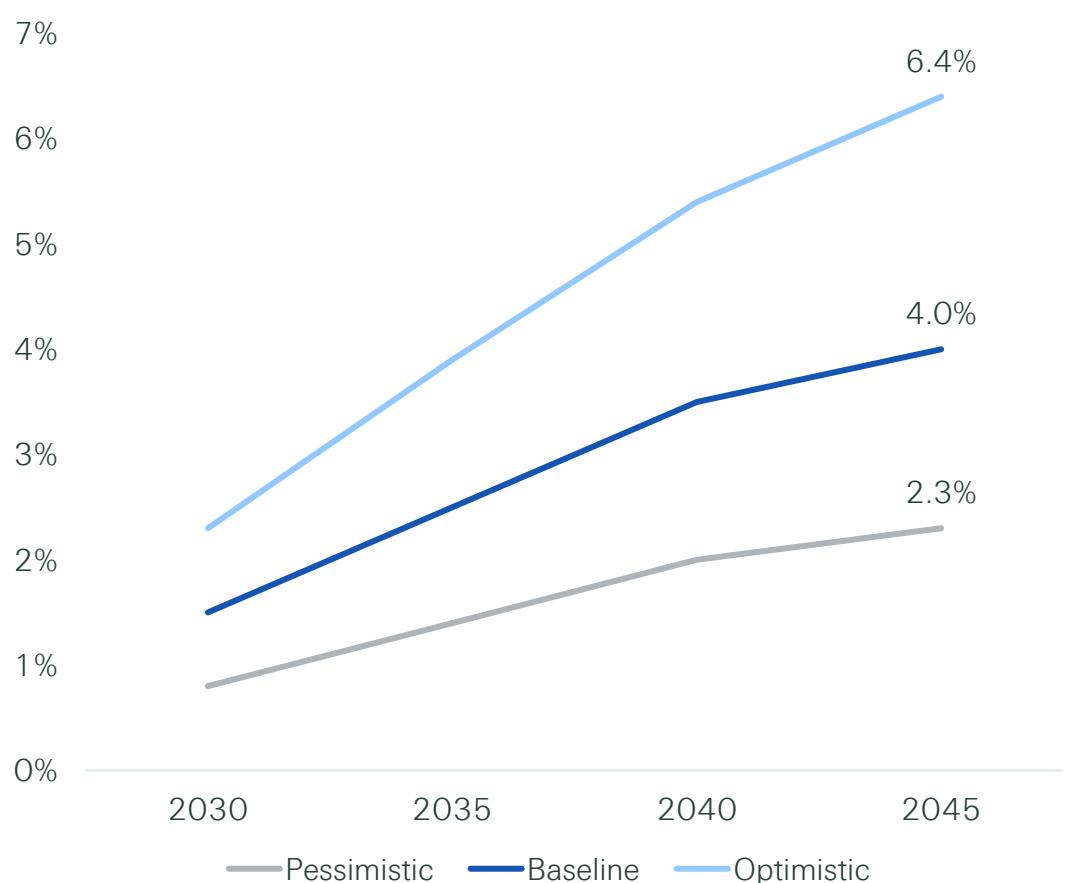
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General population: cumulative all-cause mortality reduction by 2045

US: 4.0% [2.3 – 6.4%]

UK: 3.2% [1.8 – 5.1%]





Our metabolic health scenarios examine both GLP-1 and lifestyle improvements

Core forecasting assumptions



Weight loss drugs remain effective



New drugs are released and adopted



Patents expire – drugs more accessible

Optimistic scenario – the most positive outlook		Baseline scenario – the most likely assumption	Pessimistic scenario – still positive yet guarded
Drug uptake	Popular – with high engagement and population weight loss	Majority use in obese and highly overweight groups.	Mostly limited use in treatment-resistant cases
Behaviour change	Lifestyle changes implemented support long-term health	Some ongoing lifestyle change expected, with moderate impact.	Lifestyle changes remain underused , limited impact
Long term outcomes	Weight loss maintained in real-world usage	Variable weight loss outcomes with a degree of yo-yo-ing expected.	High weight regain is common after stopping medication
Clinical markers	Strong improvements	Moderate improvements to core markers.	Improvements are modest over time
Ongoing usage	Side effects are minimal, long-term drug usage plausible	Side effects are mostly tolerable for short- to medium-term use.	Side effects (eg frailty/muscle loss) and medical caution limit broader use



Insurance implications are positive in the short term

Life & Critical Illness



Sustained results may reduce all mortality including cancer & CVD



Obesity contributes to ~30 cancers, heart attacks, strokes

Disability/ Income Protection



Decline in obesity-linked claims over time



Enhanced MSK condition management
Workplace engagement & productivity

Medical/ Health



>95% use is self-funded
UK insurers now offering GLP-1 for in-force management



More clinician time needed for follow-up
Long term reduced need for investigations & procedures

Longer term implications

Pensions, Long Term Care, the *unknown unknowns*



**Weight loss without
lifestyle
change: What does
that mean for long-
term risk?**

Trends since the advent of WMMs – level of use v level of impact

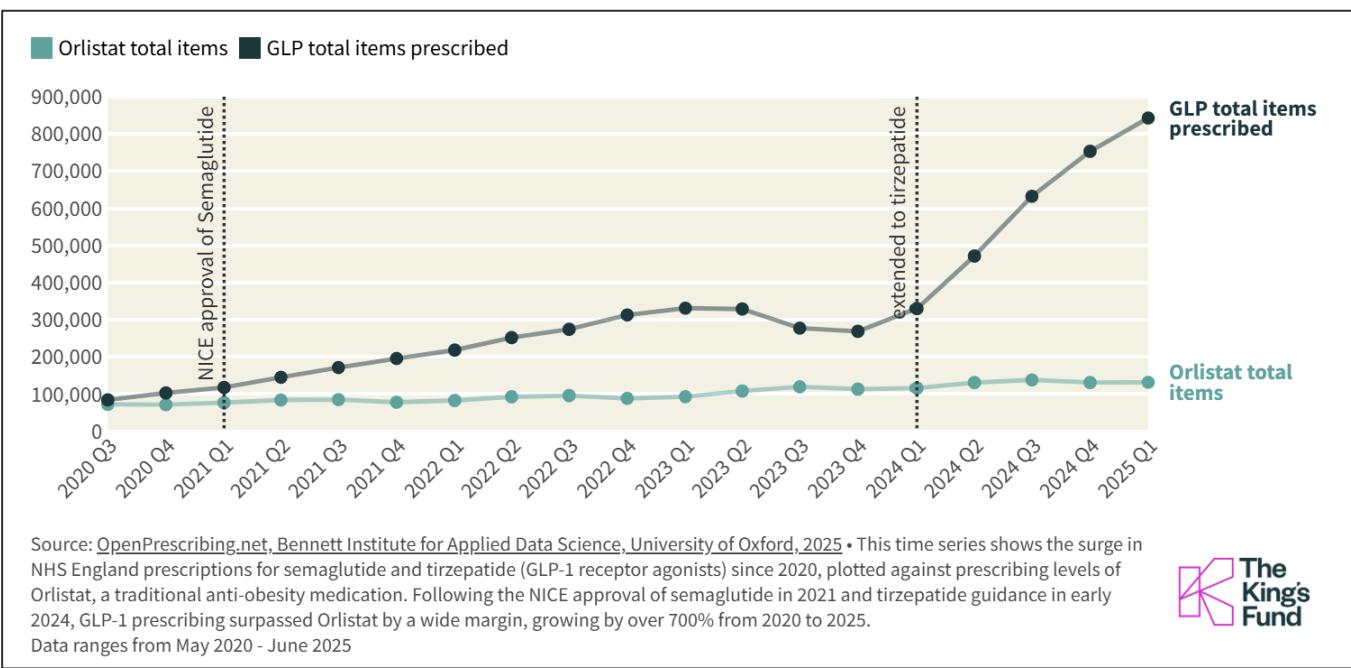
UK weight loss jab sales increase sevenfold to 2.5 million, new figures show

Health secretary Wes Streeting wants to make the drugs more widely available on the NHS

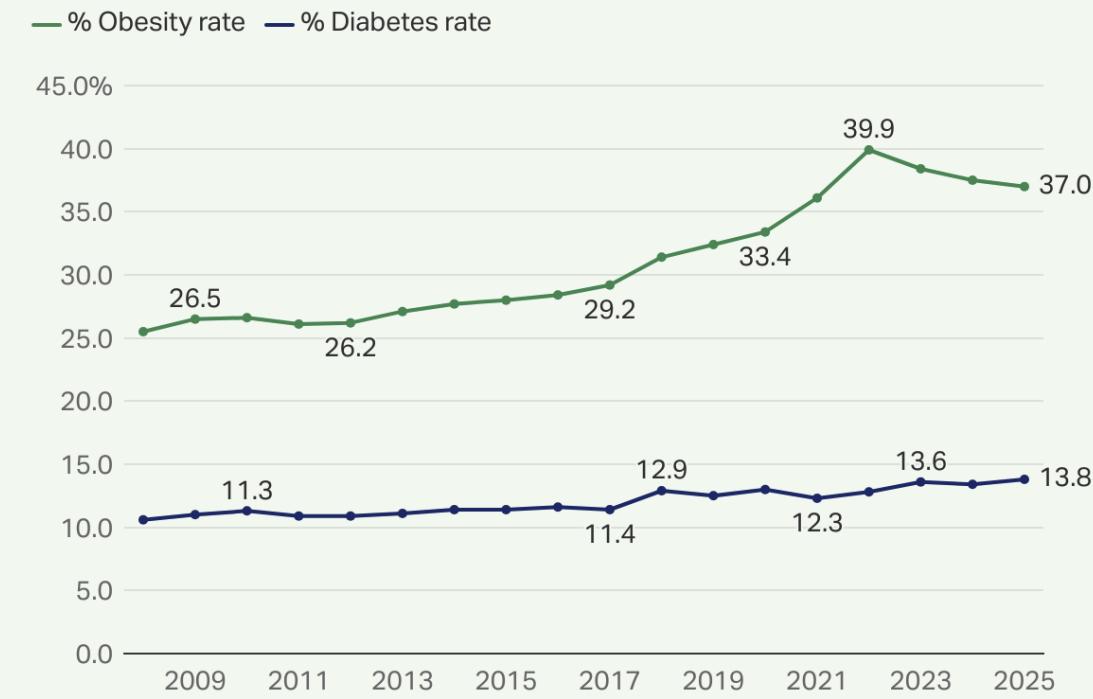
Alex Croft

Sunday 12 October 2025 19:11 BST

23 Comments



Obesity Showing Signs of Decline in U.S.

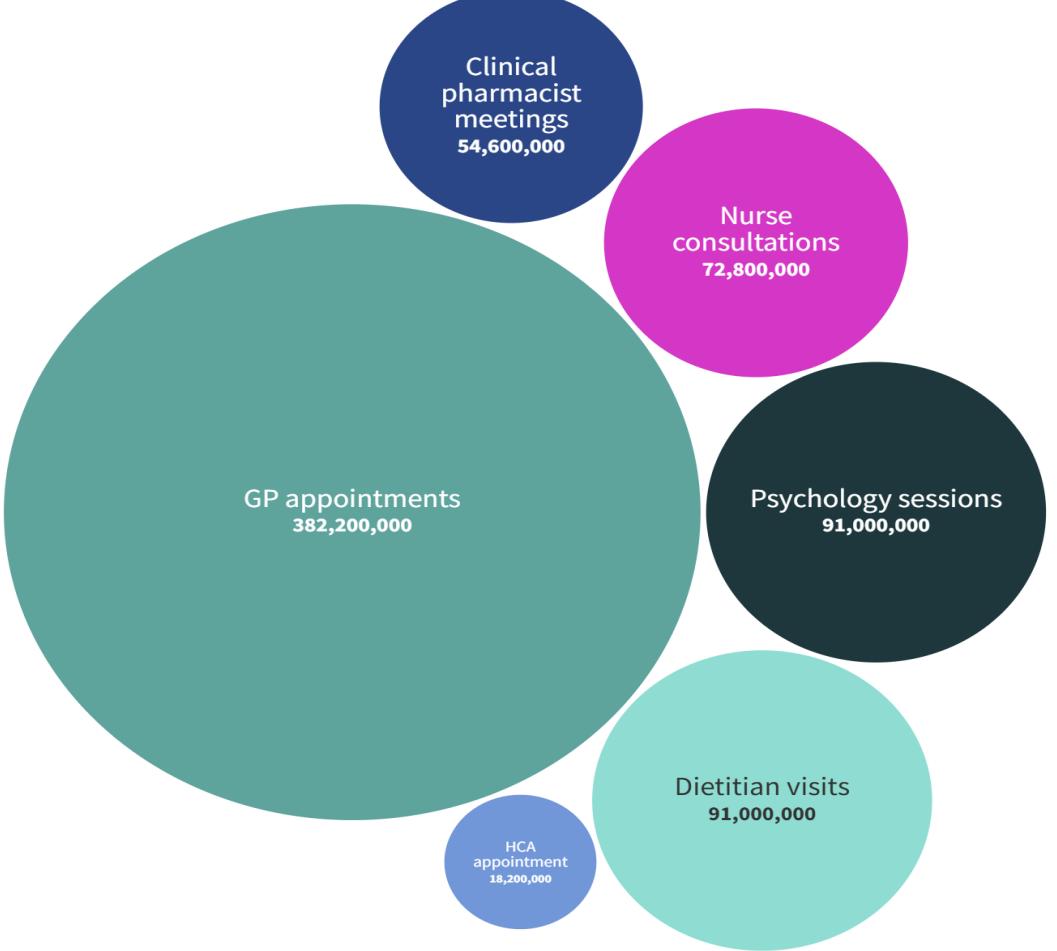




If we aimed for 70% uptake of Tirzepatide in English patients identified as qualifying

- ~ £3bn cost of implementation
- Requiring **700 Million appointments**
- Support apps exist but are not automatically linked to GP services/tertiary weight loss clinics

In reality – supply cannot be afforded within the NHS's. ICBs have restricted supply. NHS Scotland have prioritised supply to those with CV risks; T2DM etc, with purely obese patients still needing to wait for Tertiary weight loss clinic appointments





Medications alone – will they save us?

1. You stop the medication once target weight reached

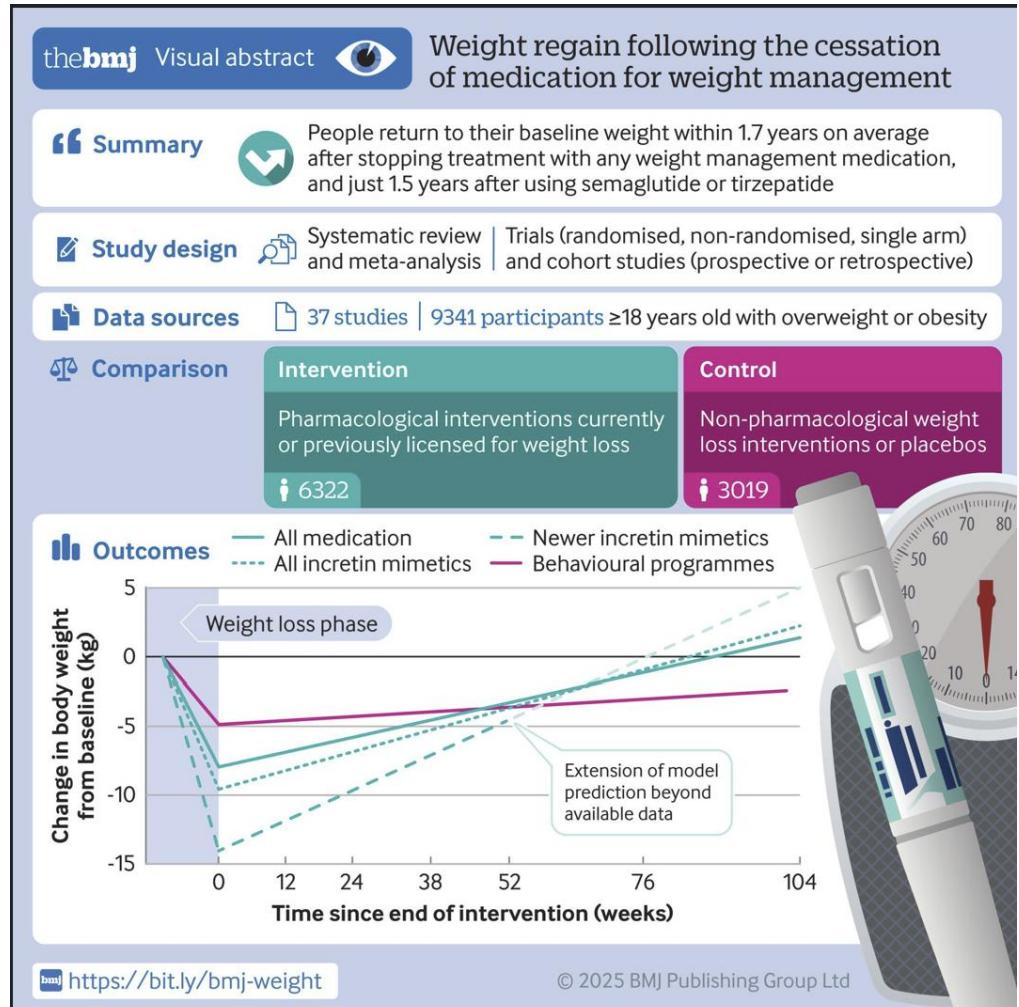
- Meta-analysis showed a return to baseline weight by 1.7 years of stopping, and a return to abnormal risk profile by 1.4.
- Faster and greater weight loss resulted in faster return to pre-medicated levels
- The CV risk markers follow the weight trend
- Expect to see cycling of weight

2. Continued “maintenance dose” for life/microdosing

- expensive, oral agents should be cheaper
- lack of evidence as to long term health implications



Is treating the symptom enough?



GLP-1's and dietary measures are similar

- Both GLP1 agonists OR low carb diets slow the transit of food through the GI tract = levelling out of glucose
- Latest USDA guidance targets the underlying cause;
 - eat real, nutrient dense food
 - eat the right amount for your size and activity level
 - hydrate adequately
 - prioritise protein
 - include full fat dairy
 - support gut health with fibre and fermented foods
 - limit % of daily intake to <10% from saturated fats
 - watch out for and limit highly processed foods, added sugars (also in meats) and refined carbohydrates
 - Avoid sugary or energy drinks

Added sugars may appear on ingredient labels under many different names, including high-fructose corn syrup, agave syrup, corn syrup, rice syrup, fructose, glucose, dextrose, sucrose, cane sugar, beet sugar, turbinado sugar, maltose, lactose, fruit juice concentrate, honey, and molasses. Examples of non-nutritive sweeteners include aspartame, sucralose, saccharin, xylitol, and acesulfame K.

Dietary Guidelines For Americans



Not without controversy!



From under disclosure to
binge users , what's the
impact on risk and
experience?



Why this matters

2.5 billion people
are overweight

830 million living with
diabetes

Continues to be hidden
in claims

Obesity stigma is a
reality and so....

Key driver of our rated
portfolio

Can Underwriting continue to rely on BMI?

- Up to 20% people under disclose their BMI currently
- GLP-1 drugs break the BMI–risk link
- Static measures ignore metabolic biomarkers
- Does not account for age, sex, or ethnicity adequately
- Not the best predictor of metabolic risk





Early pilot indications: When holistic claims management include metabolic health

5 out of 14 completed referrals have successfully RTW

Average clinical improvement across the 14 claimants:

	Average	Range
Weight lost (kg)	7.2	1.6 – 24.4
Weight loss (%)	5.6	1.6 – 12.3
Waist circumference (cm)	4.4	-3 – 10
BMI points	2.9	-1.4 – 9.3

Measurements were recorded at an average of 3 months following completion of programme with additional improvements in blood pressure and HbA1c readings, with some further ceasing diabetes and migraine medication.

5 claimants have RTW:



£790,550 savings

Total Reserve Released



£32,500 cost

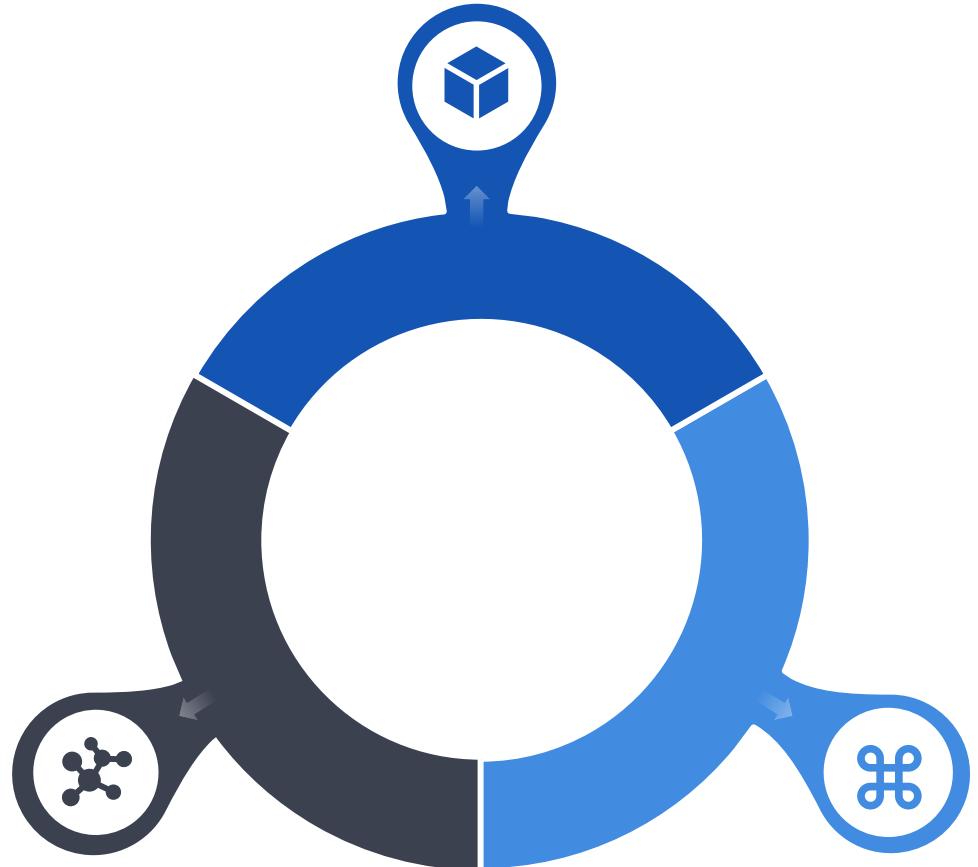
Total Cost of Programmes
(6 Residential, 7 Virtual, 1 Dietician-only)



86% engagement

18 of 21 claimants accepted the offer

Claims team has demonstrated excellent handling of referral discussion and subsequent case management.



Experience impact

- Mortality assumptions assume stability that may not occur in the long term
- Worse than expected mortality in healthy cohorts
- If their uptake and effectiveness continue, these medications will raise questions around current pricing, reserving and valuation assumption

Underwriting Impact

- Anti-selection: Improved labs/BMI mask underlying poor metabolic health
- GLP-1 usage remains masked in underwriting
- Is single point BMI underwriting out of touch with reality?

Claims

- Early-duration claims deterioration
- How do we assess GLP-1 misrep if masked in underwriting?
- Does holistic claims management hold the key?



Challenges and unknowns associated with GLP-1 drugs suggest caution

Managing drug use



Discontinuation due to Side Effects: 1/3 of patients after a month, 1/2 within 3 months, long before any benefits appear.



Muscle and bone: more than just fat is lost, perhaps 1/3 of weight lost is bone density and muscle – frailty concerns. New drugs seek to address this.



Lifestyle essentials: both exercise and diet are essential if we want to minimise reversal and regain. Currently little motivation to make these changes.

Ongoing considerations



Weight regain: numbers vary, regains of 33% – 50% seem average. **Some studies show net weight regain.** Weight regain would be fat.



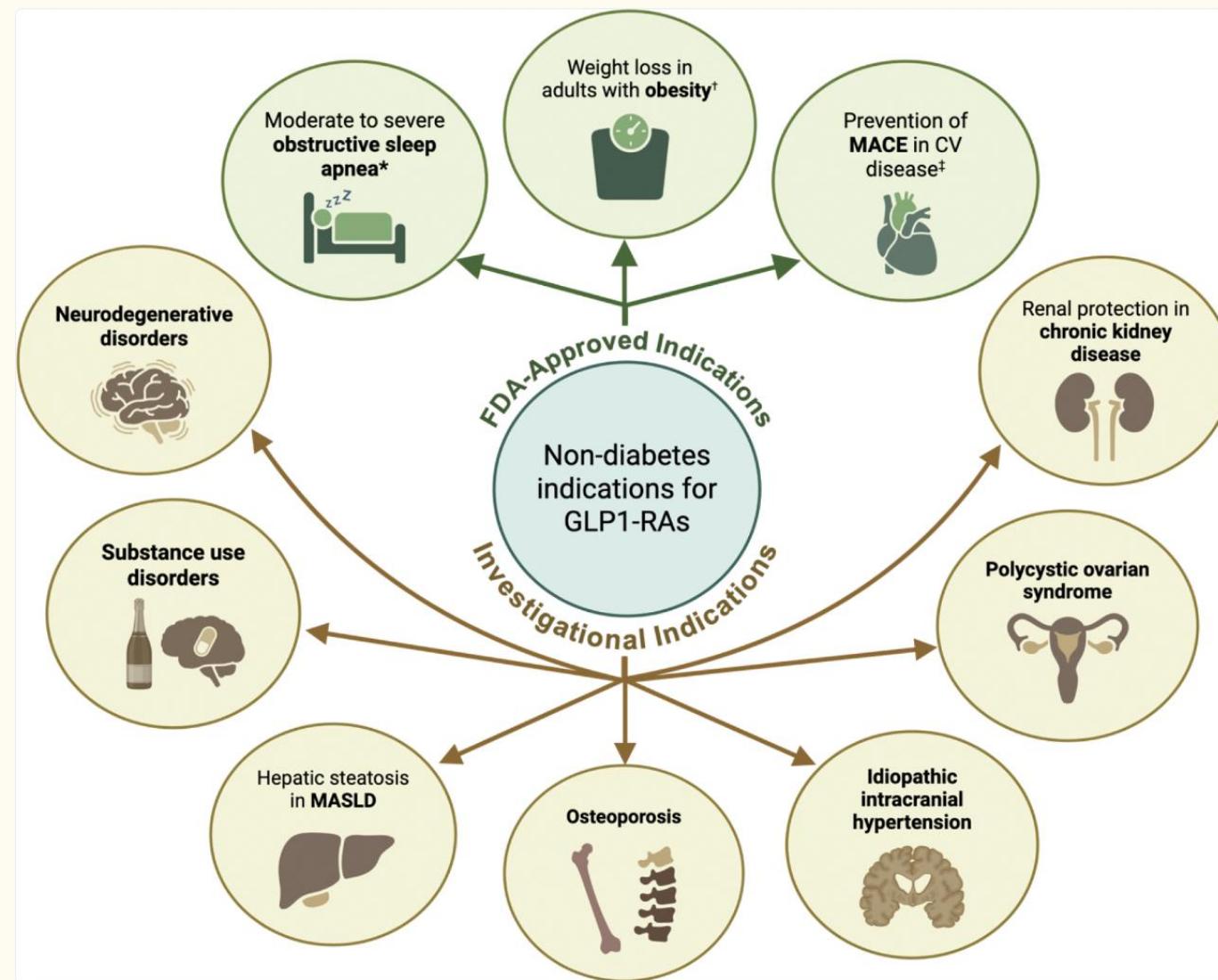
Yo-yo use: will patients resume drug use after time? What does this mean over time? If weight returns, how much risk reduction will persist?



Accessibility: on-patent costs are very high which limits widespread access.



Surprising use cases: Beyond diabetes and obesity—what else is emerging?



[Open in a new tab](#)

[The expanding scope of GLP-1 receptor agonists: Six uses beyond diabetes - PMC](#)

Emerging uses in clinical medicine

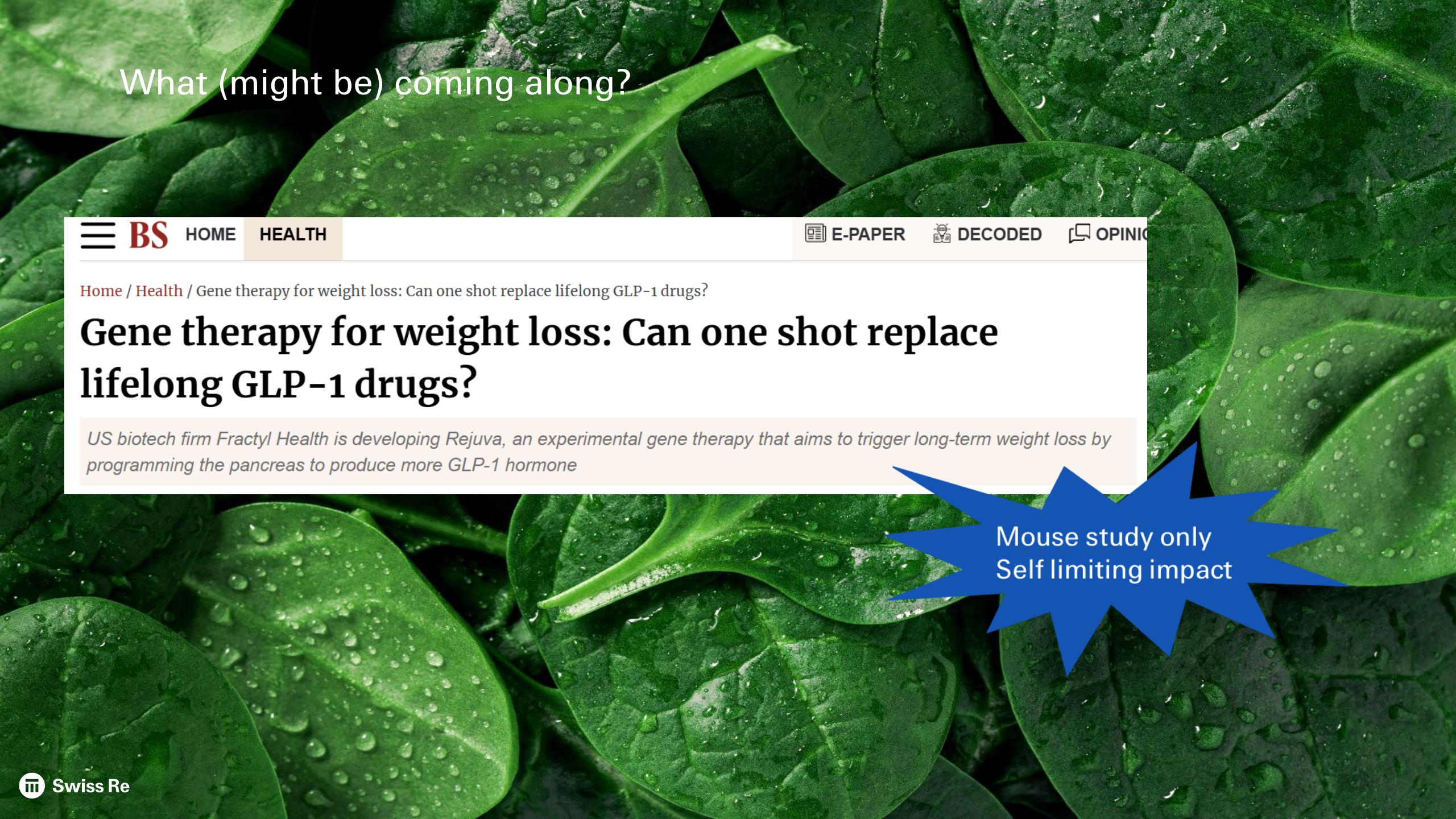
Connects to Metabolic Health weight loss benefit in all except neurodegenerative

Claims scenario's seen:

- prior to MSK surgery
- adjunct in high dose steroid treatments



What (might be) coming along?



≡ BS HOME HEALTH

E-PAPER DECODED OPINION

Home / Health / Gene therapy for weight loss: Can one shot replace lifelong GLP-1 drugs?

Gene therapy for weight loss: Can one shot replace lifelong GLP-1 drugs?

US biotech firm Fractyl Health is developing Rejuva, an experimental gene therapy that aims to trigger long-term weight loss by programming the pancreas to produce more GLP-1 hormone

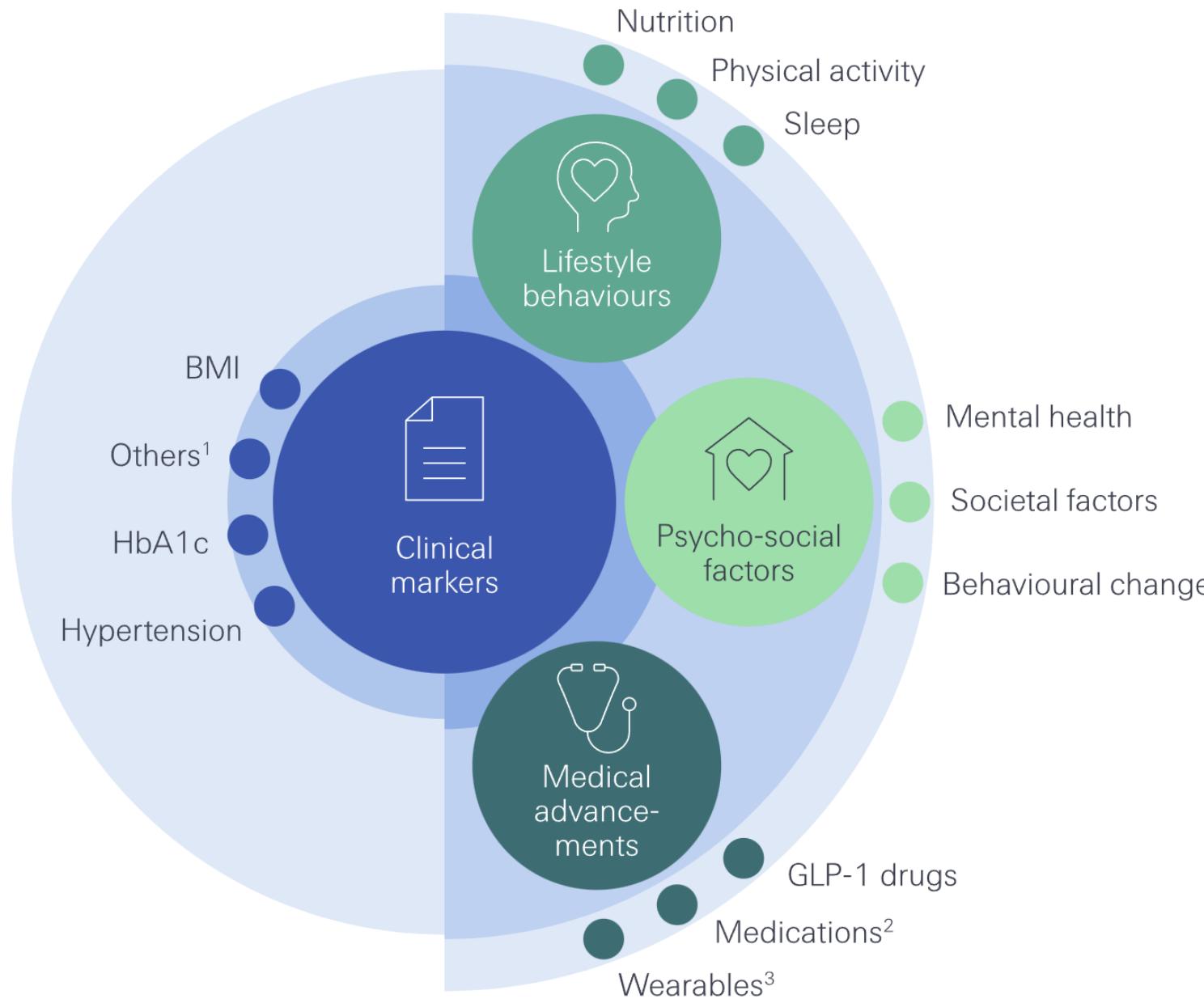
Mouse study only
Self limiting impact



Imagine a world
beyond just
BMI? Exploring smarter
metrics for risk

Swiss Re's definition of metabolic health

● Markers ●●● Factors



Redefining metabolic health

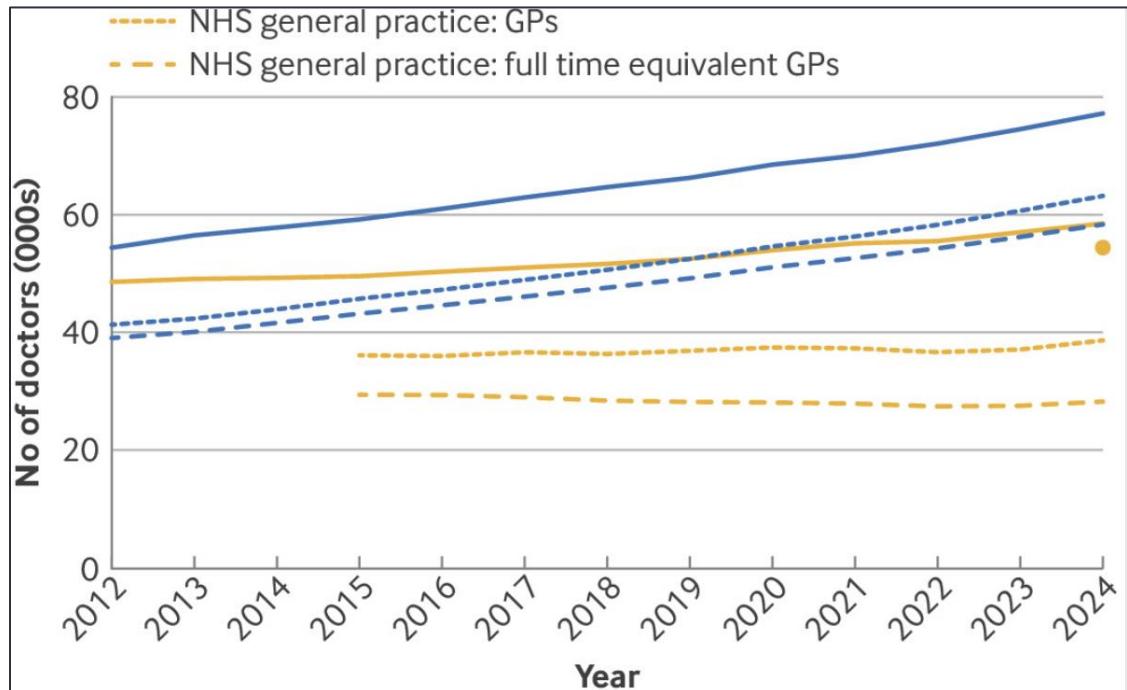
- ❖ GLP-1's are not the only solution to poor metabolic health
- ❖ valuable tool in a holistic approach to obesity treatment that supports positive lifestyle changes
- ❖ The future of underwriting is BMI + metabolic context, not BMI alone





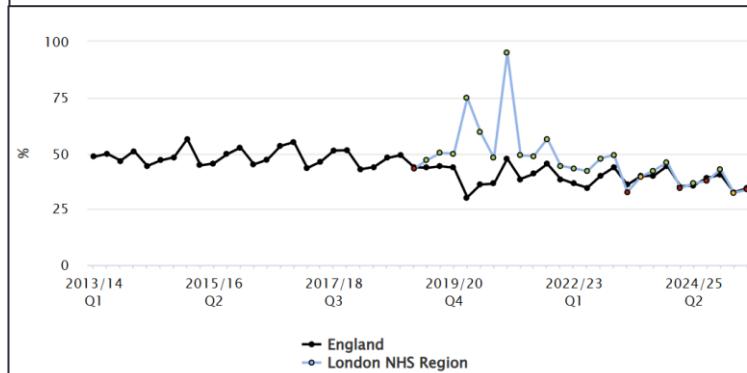
GLP1's in the context of the Clinical environment and underwriting

Pressure on clinical services



Could WMM's help detect disease more promptly?

- 1.3 Million undiagnosed T2 diabetics in UK
- 4.2 Million undiagnosed hypertensives (under 55) in UK
- CV disease improvements in the under 60's have stalled
- NHS Healthchecks under utilised (5 yearly, ages 40-74)
 - March '24 Scotland reported 5% completion rate of eligible patients



Haggis, neeps and tatties



A vibrant, overhead photograph of a variety of fresh fruits and vegetables, including pumpkins, grapes, mangoes, carrots, corn, lemons, limes, apples, pears, passion fruit, kiwi, avocados, kale, lettuce, and various types of squash and beans, all arranged on a rustic wooden surface.

Any
questions?



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