

KING'S College LONDON

Management of obesity in primary care

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Overview

- Return to normal weight in obesity
- BMI monitoring in primary care
- Access to weight management interventions
- Effectiveness of primary care interventions
- Where next?



KCL obesity projects

- Costs & outcomes of increasing access to bariatric surgery for obesity: cohort study & cost-effectiveness analysis using electronic health records
- An epidemiological study of obesity using primary care electronic health records

Clinical Practice Research Datalink

- Largest primary care database in the World
- Anonymised longitudinal data
- 80 million person-years from 1990 onwards
- Linkage to HES data, socioeconomic deprivation

What is the probability of an obese person returning to normal weight?

Obesity: 'Slim chance' of return to normal weight

Obesity is an incurable disease. So why is the government intent on punishing sufferers?
George Monbiot

It's not about losing weight. It's about staying healthy.

For a chance to see the full article, visit [www.thetimes.co.uk](#)

Readers may contact the editor for feedback on this article.

Photo: Alan King/College London in collaboration with King's Health Partners

Losing weight really IS impossible: The vast majority of people who pile on the pounds never lose them in the long run

What is the probability of an obese person returning to normal weight?

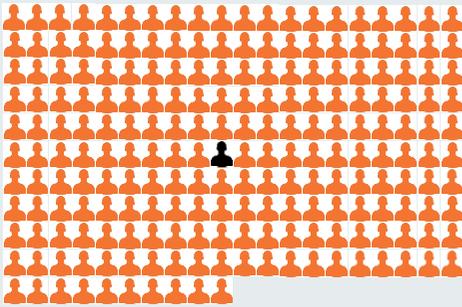
- Patients registered in CPRD between 2004 & 2014
- Aged ≥ 20 years, & 3 or more BMI records
- Stratified selection from BMI categories
- Exclude patients who underwent bariatric surgery
- $N = \sim 300,000$

Used time-to-event analysis to assess:

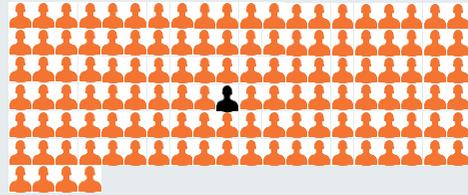
- Change to a different BMI category
- Loss of 5% body weight

Converted rates to probabilities

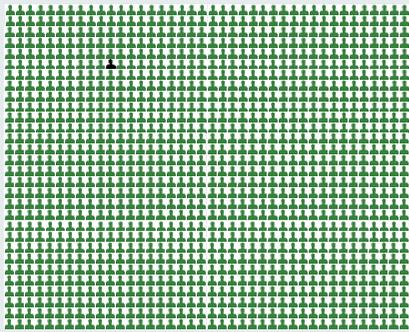
Annual probability of an obese man achieving normal weight



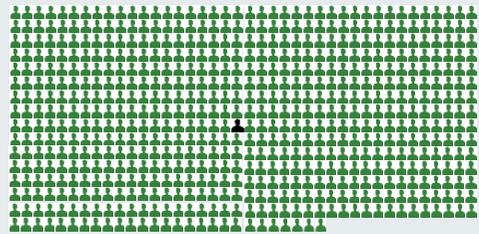
Annual probability of an obese woman achieving normal weight



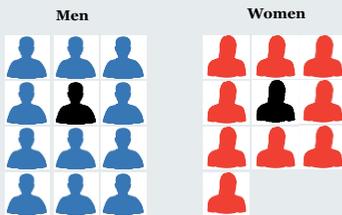
Annual probability of a morbidly obese man achieving normal weight



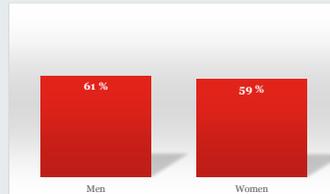
Annual probability of a morbidly obese woman achieving normal weight



Annual probability of achieving a 5% reduction in body weight for patients with simple obesity



Percentage of participants who lost 5% body weight who subsequently regained that weight



Key findings

- The probability of obese patients attaining normal body weight was very low
 - (and this declined with increasing BMI category)
- The probability of patients achieving a 5% body weight loss was considerably higher
 - (although the majority of these patients went on to regain the lost weight)

Recording of BMI in primary care

Sample

- Participants aged ≥ 30 years
- Equal numbers of men and women
- Registered with CPRD between 2005 & 2012
- N= ~300,000

Recording of BMI in primary care

Findings

- 31% of participants had no BMI recorded
- More women had BMI recorded annually than men
- Annual recording increased over the study period
- Mean BMI in both genders was in the overweight category

Predictors of BMI recording

- Female, middle-age, more obese, ex-smoker, deprived, co-morbidities

Weight management interventions

Sample

- Obese & overweight patients
- Participants aged ≥ 30 years
- N=91,413

Weight management interventions

Interventions



Advice

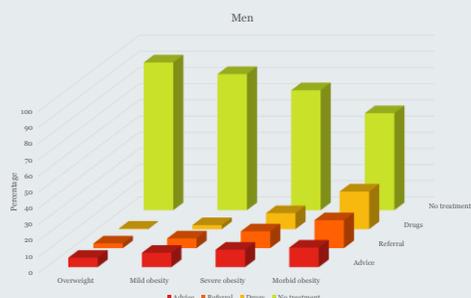
Referrals



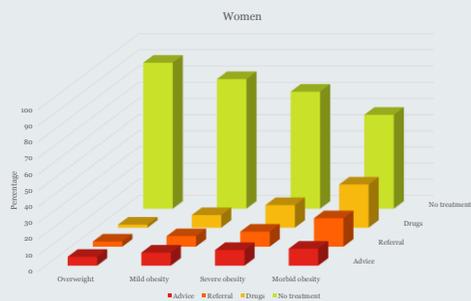
Prescriptions



Weight management interventions



Weight management interventions



Weight management interventions

Predictors of treatment after a record for overweight/obesity

- Female
- More obese
- Former smoker
- Age
- More deprived
- Co-morbidity

Obesity management in primary care

- Large datasets with 'real practice snapshot'?
- What isn't being recorded?
- Selection biases?

Systematic review

- Behavioural weight loss interventions
- Delivered in primary care

Included 15 RCTs (n=4,359)

Meta-analysis

Mean weight loss at 12m -1.36kg (-2.10 to -0.63)

Mean weight loss at 24m -1.23kg (-2.28 to -0.18)