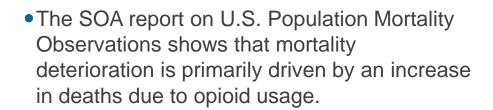
Session 041: Why Health and Wellness Initiatives Matter for Actuaries

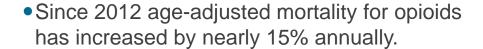
SOA Antitrust Compliance Guidelines
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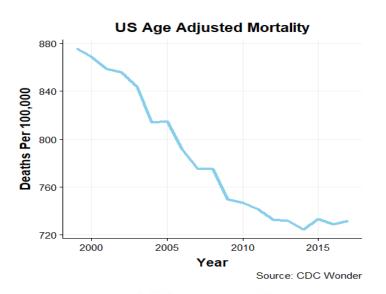


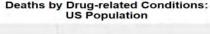
### US general population mortality experience

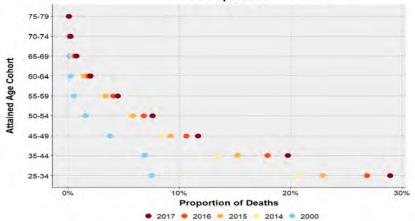
 The US general population has experienced stagnant or negative mortality improvement in the last five years.













### The US insured population continues to experience mortality improvement

45-54

55-64

- The cohorts most insulated from mortality deterioration, higher income/education and mid-to-older ages, are similar to the profile of an insured population.
- The SOA's report also noted that higher income counties experienced mortality improvement while lower income counties experienced mortality deterioration.

- While a much smaller proportion of insured deaths are due to drug-related conditions, there is an uptrend that mirrors that of the general population.
- The 25 to 44 age group was most heavily impacted by mortality deterioration.

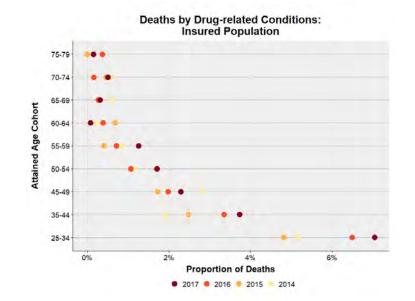
Top 15% vs. Bottom 15% Counties in Income  All Causes of Death		
Annual Mortality Improvement 1999-2017		
Age Group	Bottom 15%	Top 15%
35-44	-0.4%	0.5%

Age-Adjusted Mortality 1999-2017

From SOA report "U.S. Population Mortality Observations Updated with 2017 Experience"

-0.6%

-0.1%





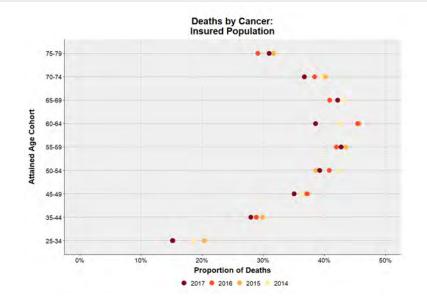


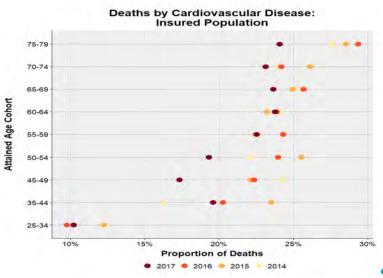
1.1%

1.5%

### The US insured population continues to experience mortality improvement

- Mortality improvements for the two largest causes of death, cancer and heart disease, have mitigated mortality deterioration from other causes.
- Mortality improvement for both of these top two causes of death have accelerated.









# Why Health and Wellness Initiatives Matter for Actuaries: John Hancock Vitality as a Case Study

2019 SOA Annual Meeting, session 041

Lauren Cross, FSA, MAAA

October 28, 2019





# John Hancock launched Vitality for a number of important reasons:



Fundamentally, we believe that your life insurance company **should** care a lot about you living a long, healthy life



Longevity, to an unprecedented extent in the history of civilization, can be heavily influenced by the choices we make



The life insurance industry is in a incredibly unique and powerful position to help customers live a longer, healthier life



We saw an opportunity to revitalize a product category that is as critical as ever for US consumers



# So how does this impact pricing assumptions?

Mortality

Lapse

Expenses



# Lifestyle choices such as...



Lack of Exercise



Poor Nutrition



Smoking



Level of Alcohol Consumption

### Lead to noncommunicable diseases



Cardiovas cular Disease



Respiratory Disease

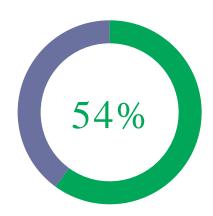


Cancer



Diabetes

# Which are responsible for

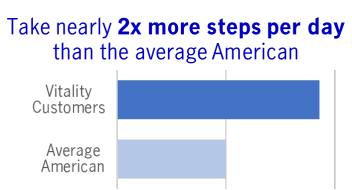


OF ALL DEATHS IN THE U.S.

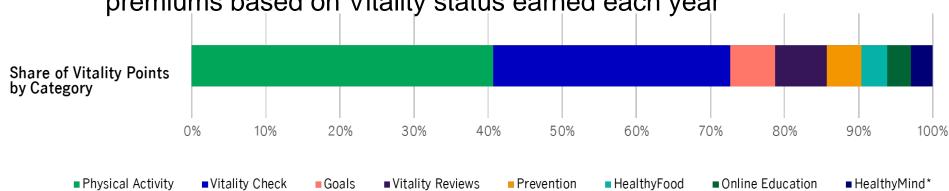
### **Mortality**

 Behavioral science shows that rewards and incentives can motivate people to change behavior



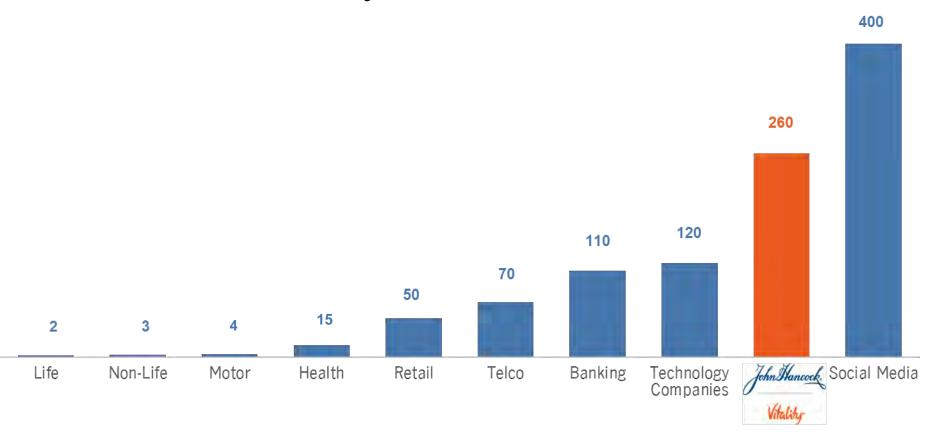


 Gathering data about our policyholders post-issue enables dynamic premiums based on Vitality status earned each year





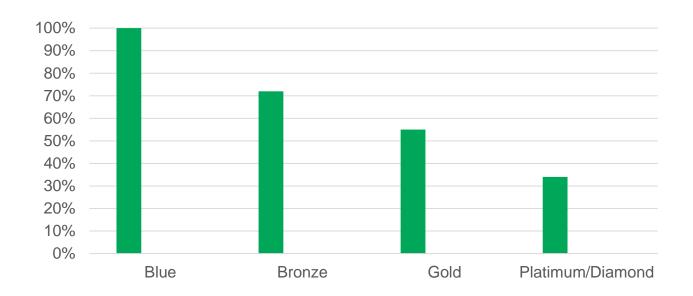
# Average annual customer interactions with John Hancock Vitality





### Lapse

 Vitality's data from other markets\* shows that the more engaged a customer is, the less likely they are to lapse



 While lower lapses (overall) are not always a good thing depending on your product design, there's comfort in knowing that your healthiest policyholders are persisting!



### **Expenses**

- S Cost of rewards
- Cost of program infrastructure & administration
- Marketing and distribution
- Passing back a material portion of the mortality benefit to the customer
- A delicate balance of cost/benefit!









# Empowering Customers for Health and Wellness

- Asia Case Studies



### **Everybody Wants to be Healthy**



- ✓ Consumer Question 1\*: what is your most valued life goal?
- ✓ Consumer Question 2\*: what is your view on insurers shifting roles to keeping people healthy?



\*Source: ReMark 2018 global consumer study

# **But What Does Being Healthy Mean For Us?**

### Room for improvement

5.1% None

20.5% Better Sleep



8.4% Quit Smoking



22.7% Lower Stress Level



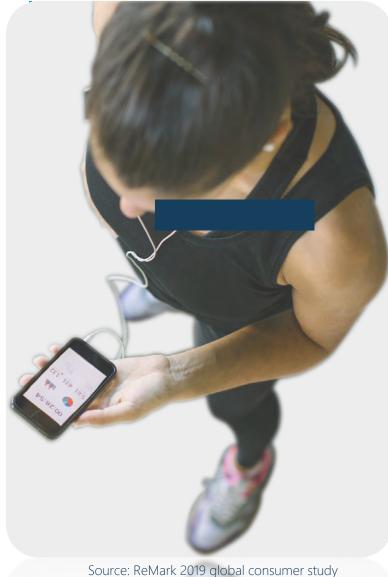
27.3%

15.9%

Healthier Diet







### **Two Case Studies**



### For the fit and active

- ✓ Critical illness protection
- ✓ Agent +App +Wearable
- ✓ With Wearable device
- ✓ Stay active and young
- ✓ Reward, gamification, community
- ✓ Dynamic UW
- ✓ Post-issue ongoing UW



### For HBV patients

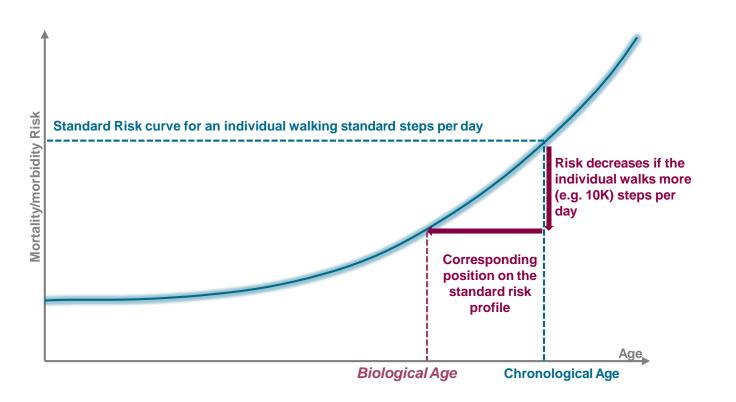
- ✓ Liver cancer protection
- ✓ Doctor + App +Pharmacy
- ✓ No wearable device
- ✓ SA activated within App when purchasing drugs
- Prevention, monitoring and community
- ✓ Insure the "uninsured"

### **Case 1: For the Fit and Active**



BAM (Biological Age Model) translates an activity versus risk study into a successful engagement message:

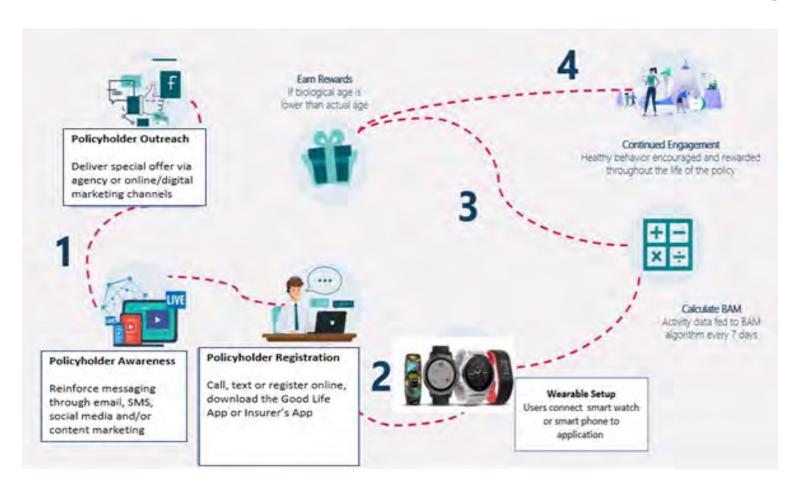
Stay active, become younger and get rewarded every 7 days!





# Case 1: BAM Engagement Journey



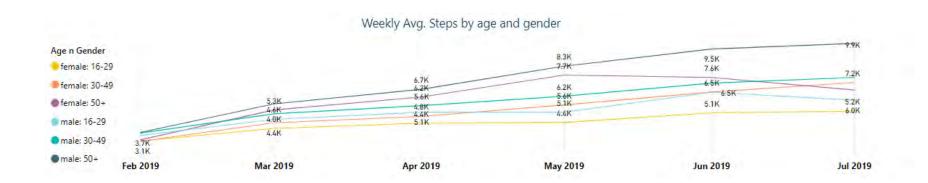


# **Case 1: BAM Engagement Impact**



Observations during the first 6 months post launch:

- ✓ Positive weekly average steps trends observed from policyholders.
- ✓ Over 50s group appears to be most motivated to "age reduction".



# **Case 2: Improve HBV Patient Lives**



### Chronic HBV - Global Unmet Medical Need







Lozano R, Naghavi M, Foreman K et al. The Lancet 2012; 380: 2095-128
World Health Organization: Fact Sheet No. 204. Hepatitis B, revised, August 2008. Geneva: WHO. www.who.int/mediacentre/factsheets/fs204/en/index.html



- ➤ Following HBV infection, 10% of patients will develop chronic hepatitis (i.e., persistence of HBV in the body) with the potential risk to develop cirrhosis and liver cancer.
- ➤ The risk of transition to a chronic state is particularly frequent among immunodepressed individuals and newborns.

### **Case 2 HBV Patient Engagement Journey**



Hepatitis B Patient goes to see a doctor



Patient continues and proves prevention efforts to maintain liver cancer cover



Doctor provides drug prescription and QR code on liver cancer protection





App stores regular check up reports and allows submission to the insurer within the min-app

Patient downloads wechat mini-app, buys drugs at pharmacy, scan and activate free liver cancer cover



Apps pushes prevention tips (e.g. doctor online video)



### **Case 2: O2O Patient-centric Interactions**



 Patients trust their doctors who provide the QR code



 Registration with 1 health declaration question



 Only 4 basic bio information are required



 Scan purchased drug package to activate free liver cancer SA



 Pharmacy network staff are trained to provide assistance when needed



No agents, application forms or medical underwriting are involved; policy issued and managed within Wechat mini-app.











remarkgroup.com



An Industry overview of how life insurers are using health and wellness initiatives to change product, pricing, engagement and .... perception.



Presenter: Dustin Yoder 25





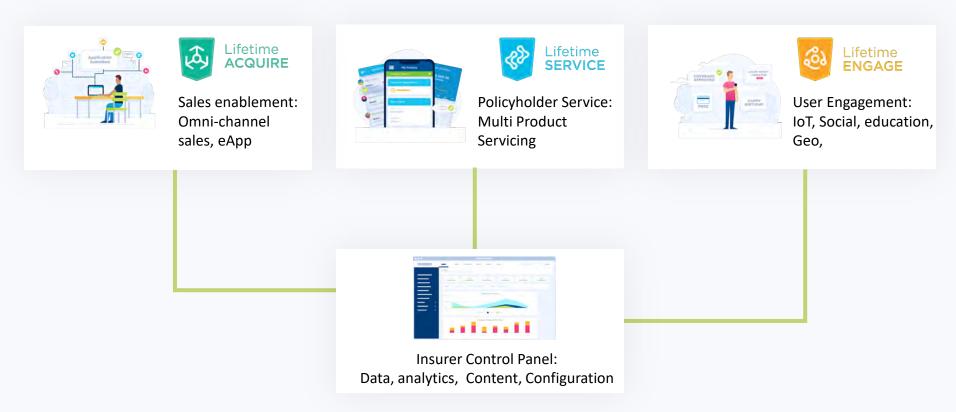






### For a little Background: What is Sureify's Solution?

Lifetime™: the sales, servicing and engagement platform for the modern life insurance and annuity business.





### Where Sureify was in 2015...Before we went B2B



Life Insurance

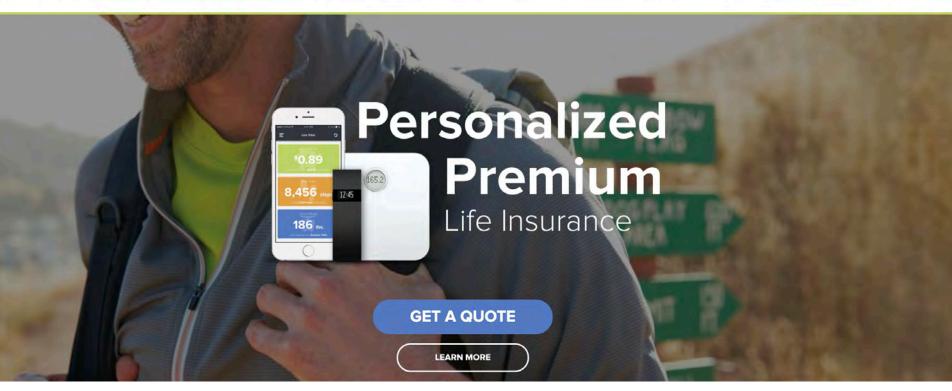
Savings

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Call us: 1-855-331-6467

**GET A QUOTE** 





### Our hypothesis in 2015





Let's explore how the industry is integrating health and wellness into life insurance









Presenter: Dustin Yoder



About Us

For Financial Professionals

Log In



Life Insurance

Vitality Program

**Tools & Resources** 

My Policy

GET A QUOTE



### John Hancock Vitality

Helping you live a longer, healthier life.

Life insurance that saves you money and rewards you for healthy living. Now available on all our products.

**Explore the benefits** 







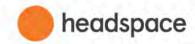
### **Vitality PLUS**



Up to 15% in annual premium savings

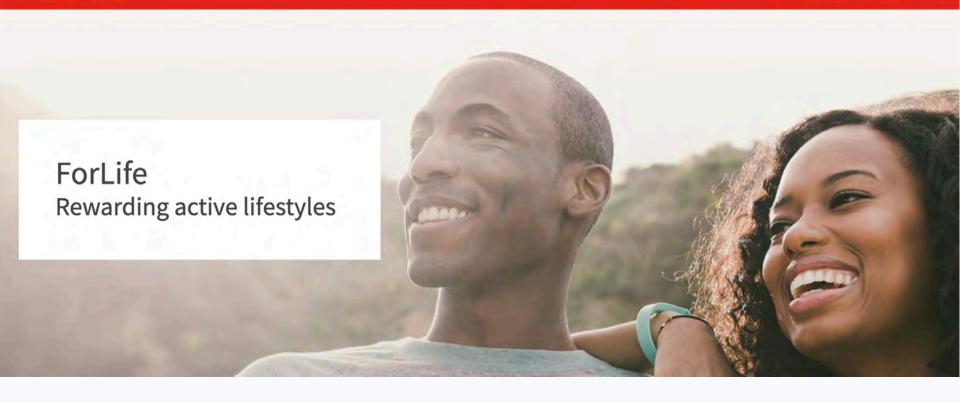


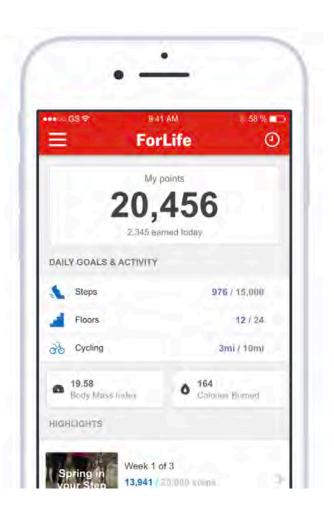
Earn Apple
Watch for as
little as \$25 with
regular exercise



Free subscription to Headspace

FAQs





# Rewarding active living to the fullest.

Whether you're already living an active lifestyle or you need an extra incentive to commit, the ForLife mobile app gives you a fun and simple way to motivate your fitness.

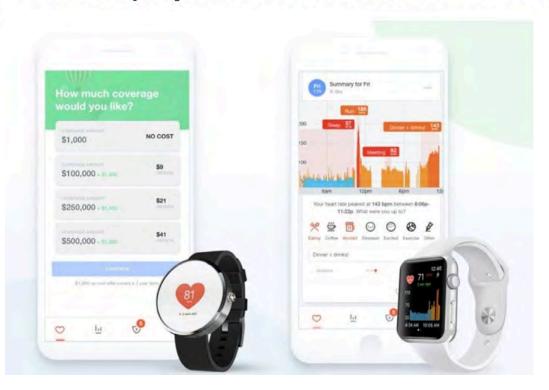
For Life tracks your daily activities and rewards you with points for gift cards from your favorite brands.

Download ForLife today, get moving and get rewarded!





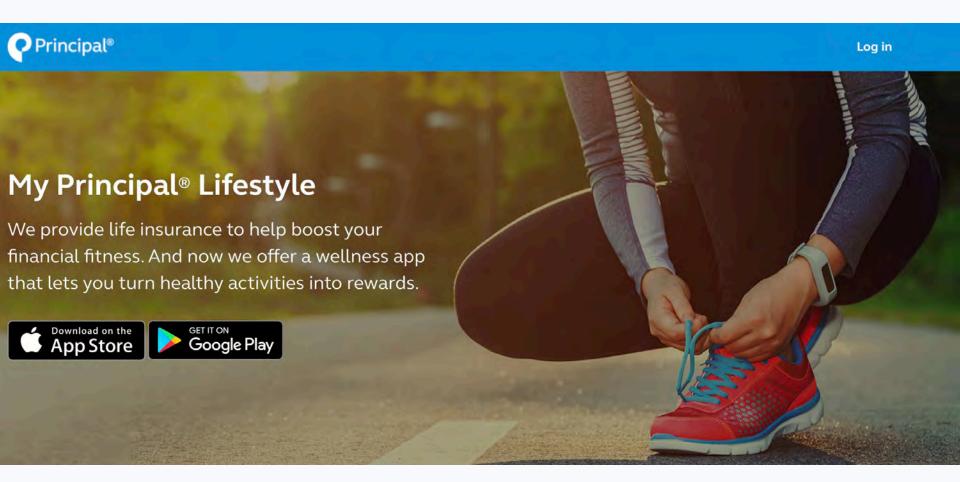
### Cardiogram Partners With Life Insurance Company to Offer Apple Watch Owners No-Cost \$1,000 Accidental Death Plans

















### Start today

Get the app, register and sync a device, then track activity.



### Watch your progress

Set goals and join challenges to earn points.



### Get paid

If you're eligible, your points can be redeemed for gift cards.



### Be a better you

Feeling good about yourself is the biggest reward of all.



### What we hear & see from our clients





### Outcomes & Results

20 Points to NPS
300% to Response rate
55% to Persistency

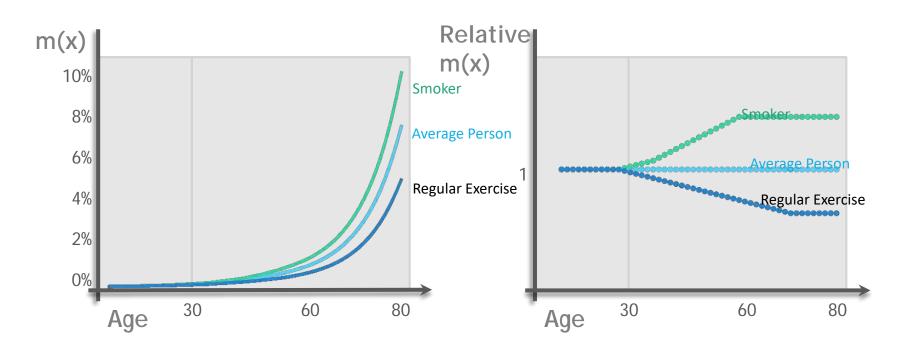


# **Engagement Metrics**



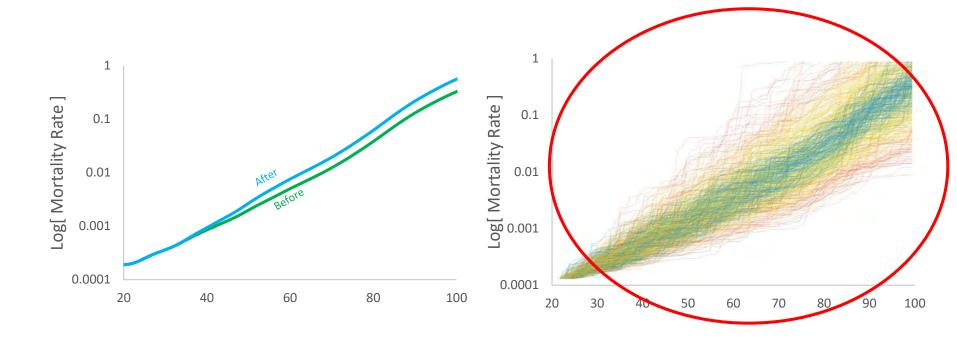


# What our clients are still looking for???





# Long term mortality data on population





# Thank you

Dustin Yoder CEO, Sureify dustin@sureify.com