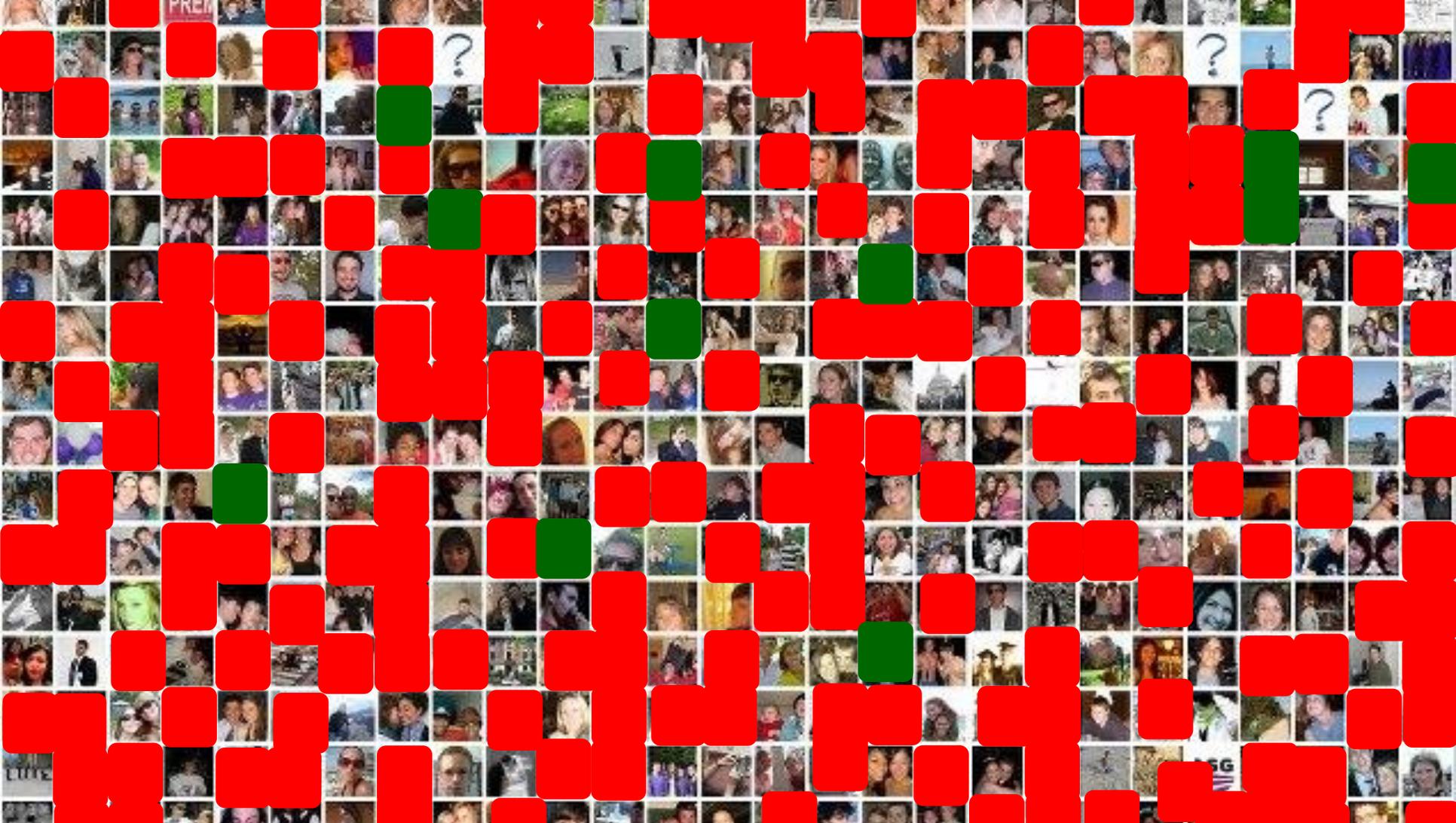


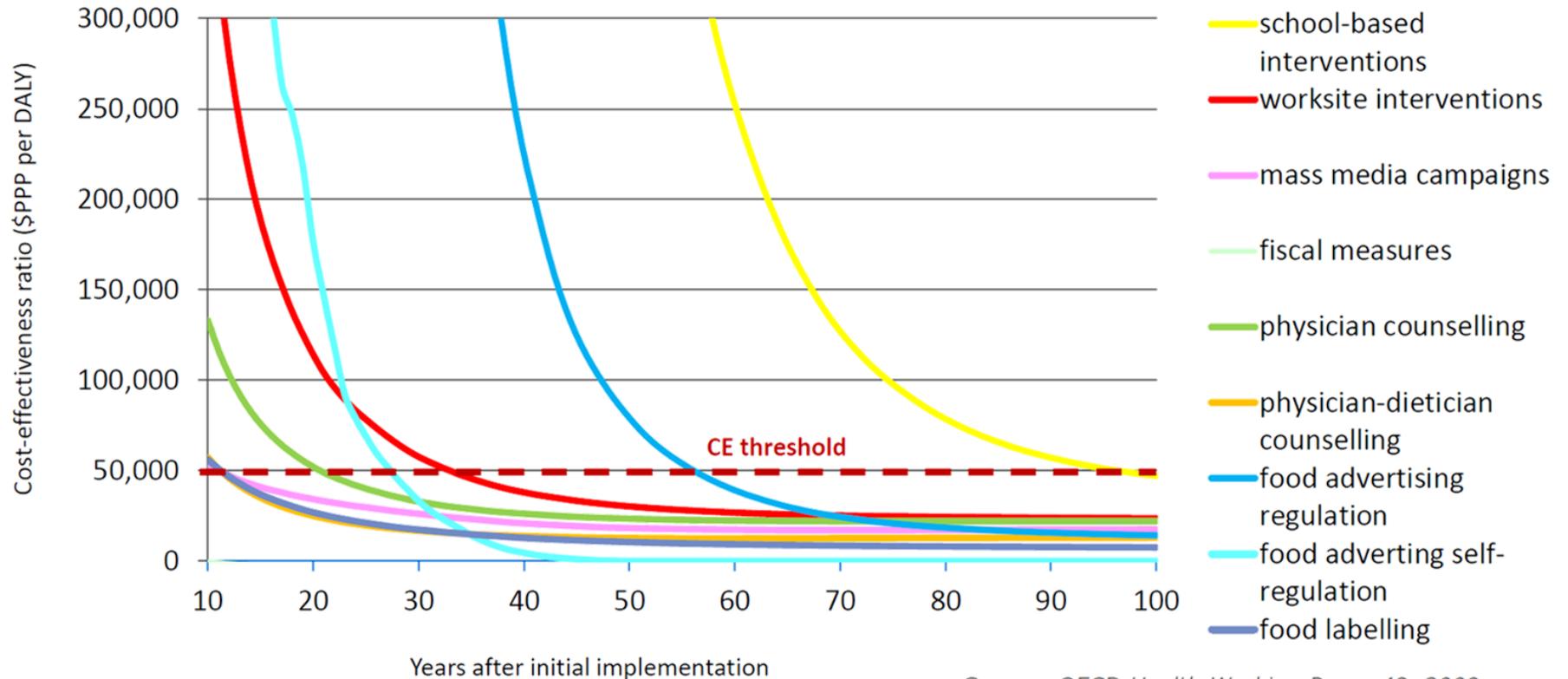


Walk away from Diabetes

Prof. Dr. med. habil. Peter Schwarz, MBA
Universitätsklinikum Carl Gustav Carus
Dresden

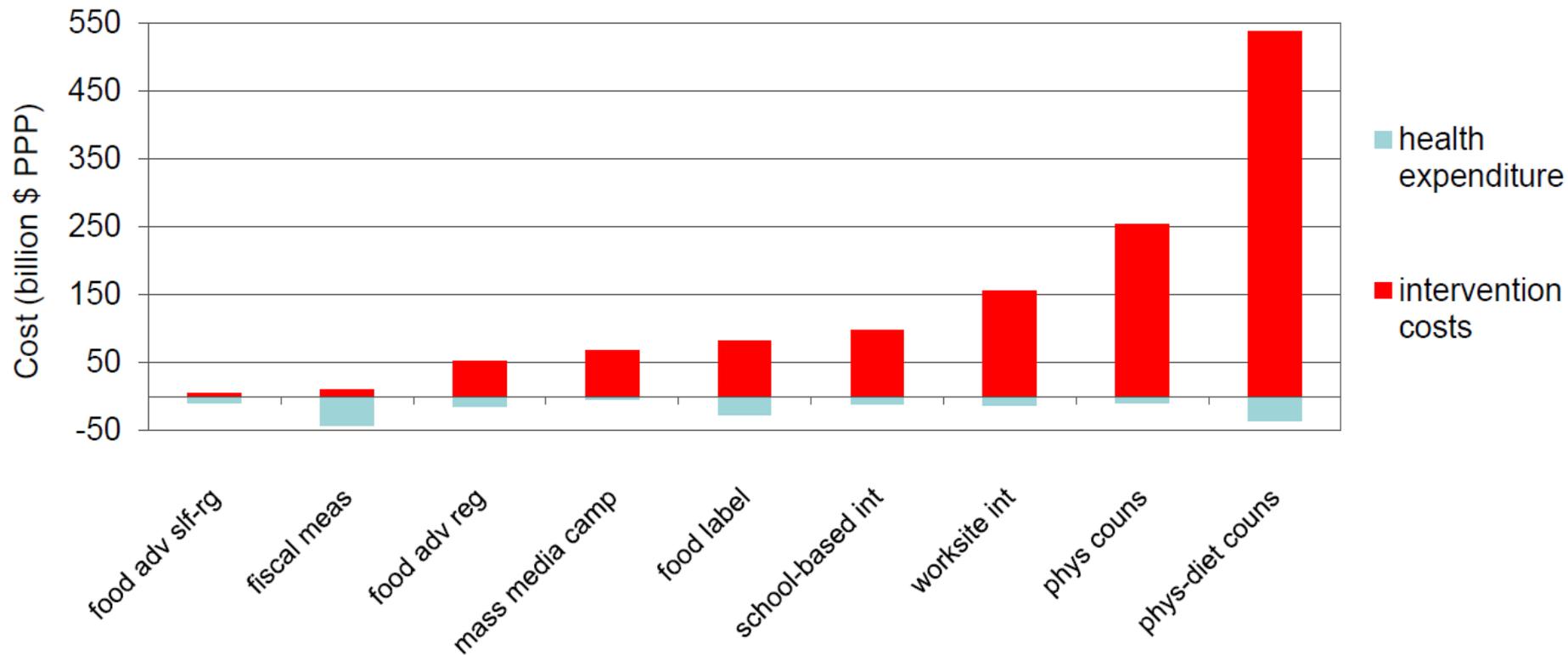


Prevention is a Good Long-Term Investment



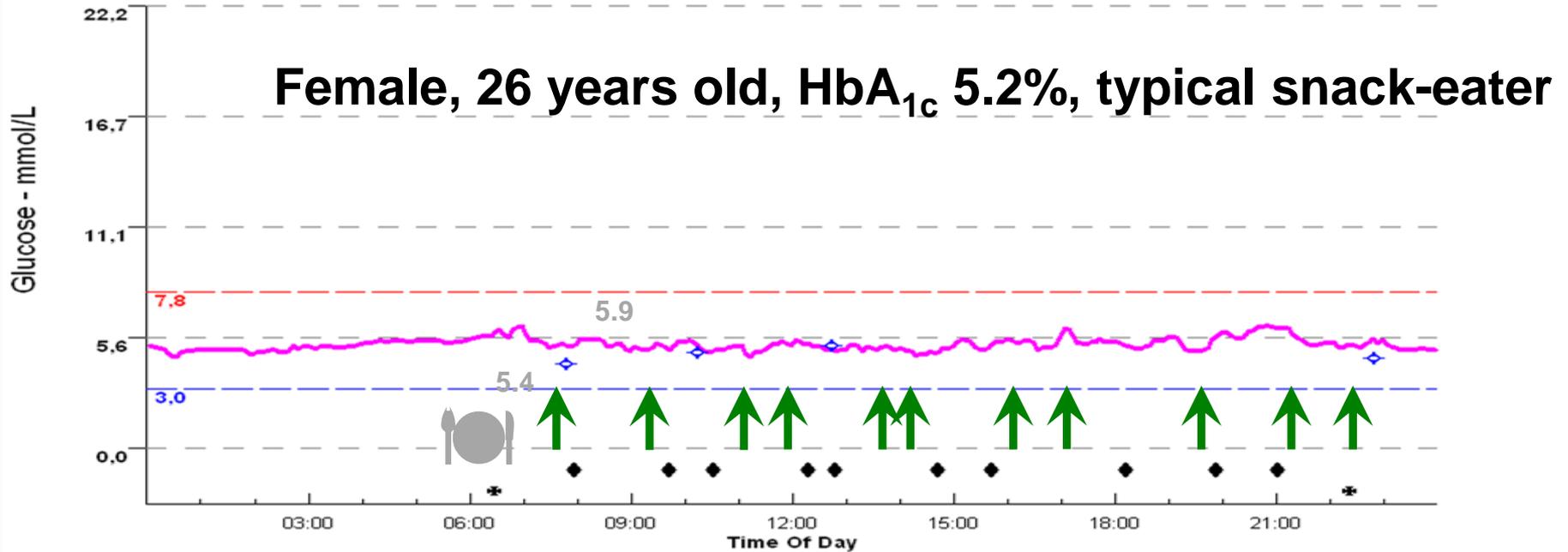
Source: OECD Health Working Paper 48, 2009

Financial Impact

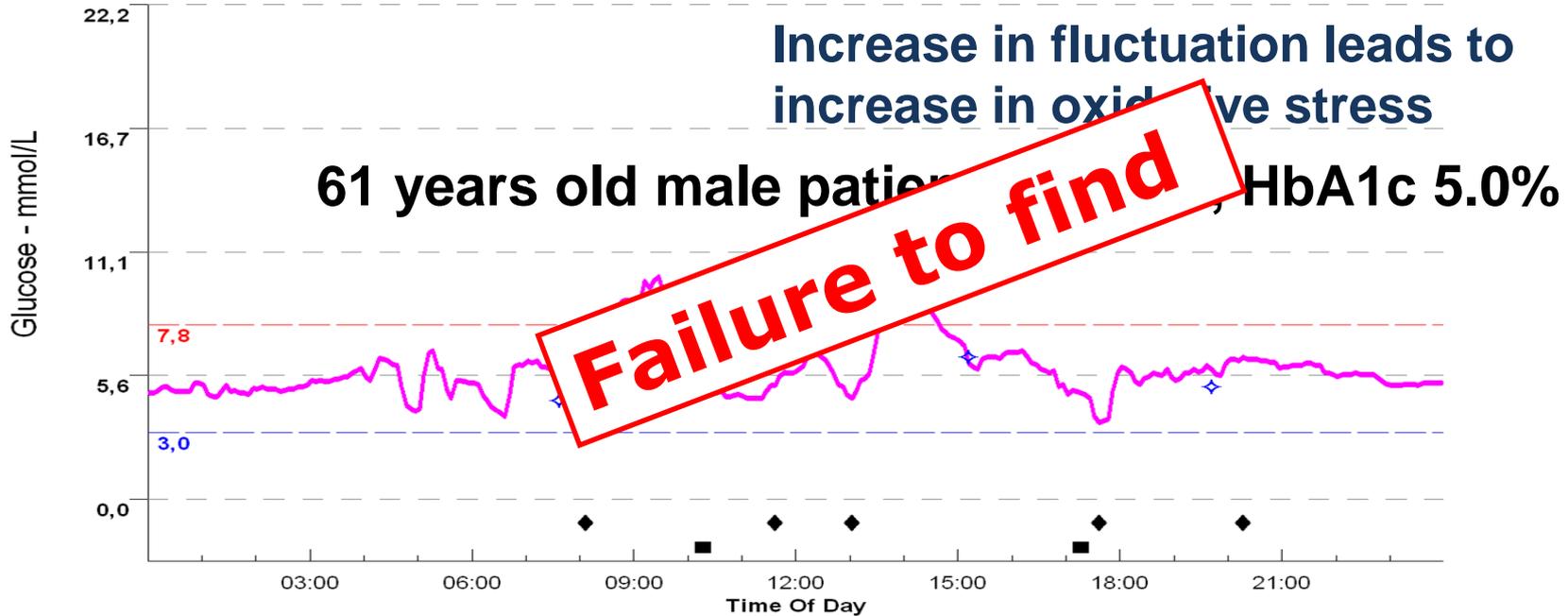


Source: OECD Health Working Paper 48, 2009

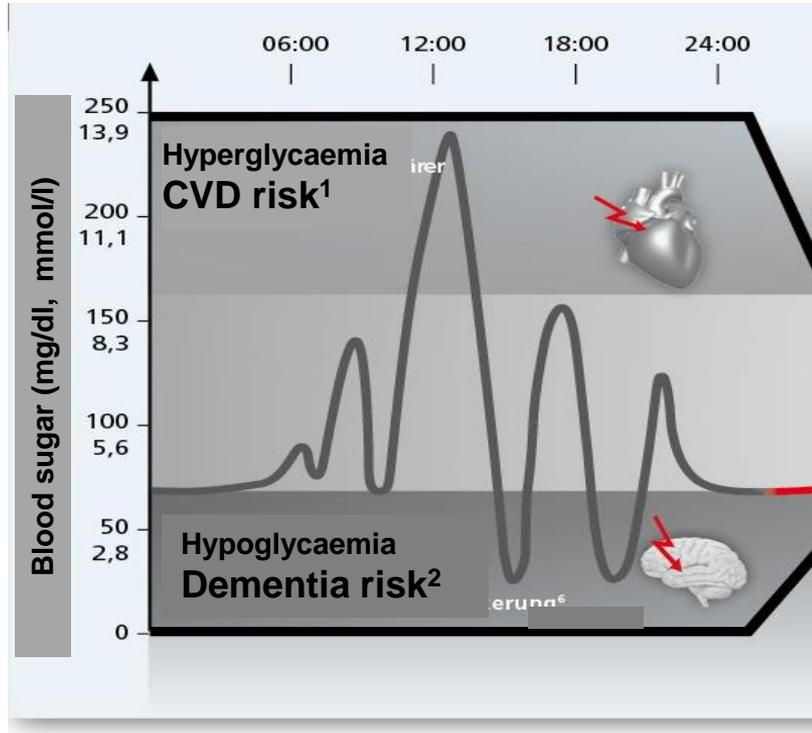
Continuous glucose monitoring in a healthy person



Prediabetes starts with postprandial glucose peaks



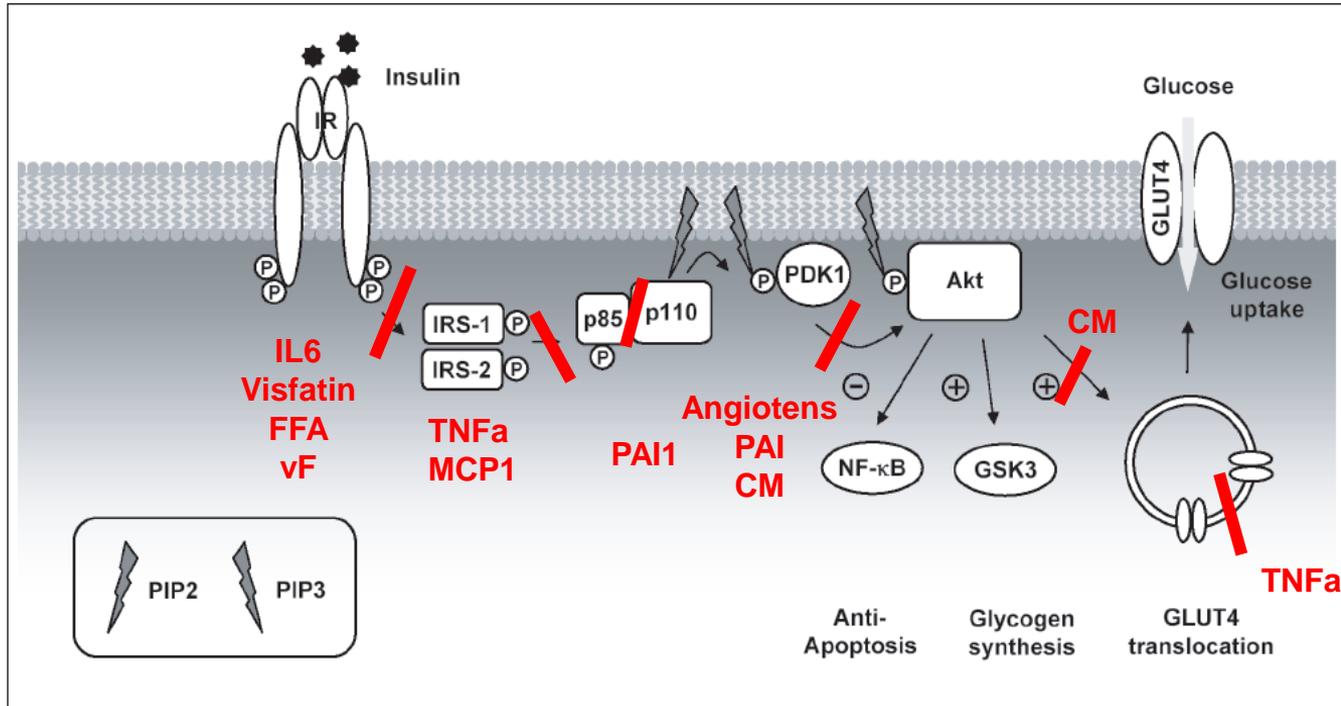
Effective Reduction of glucose variation



Visceral Fat!

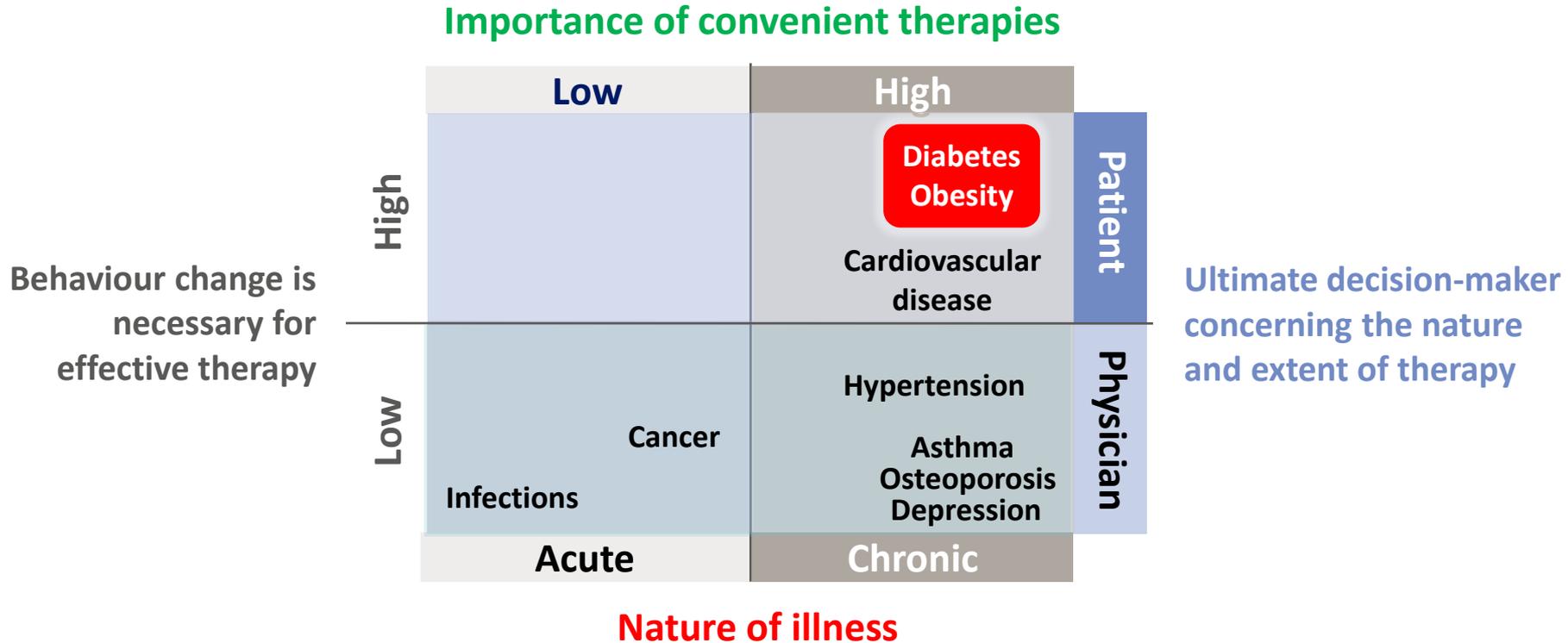
Liver Fat!

Visceral fat and glucose tolerance



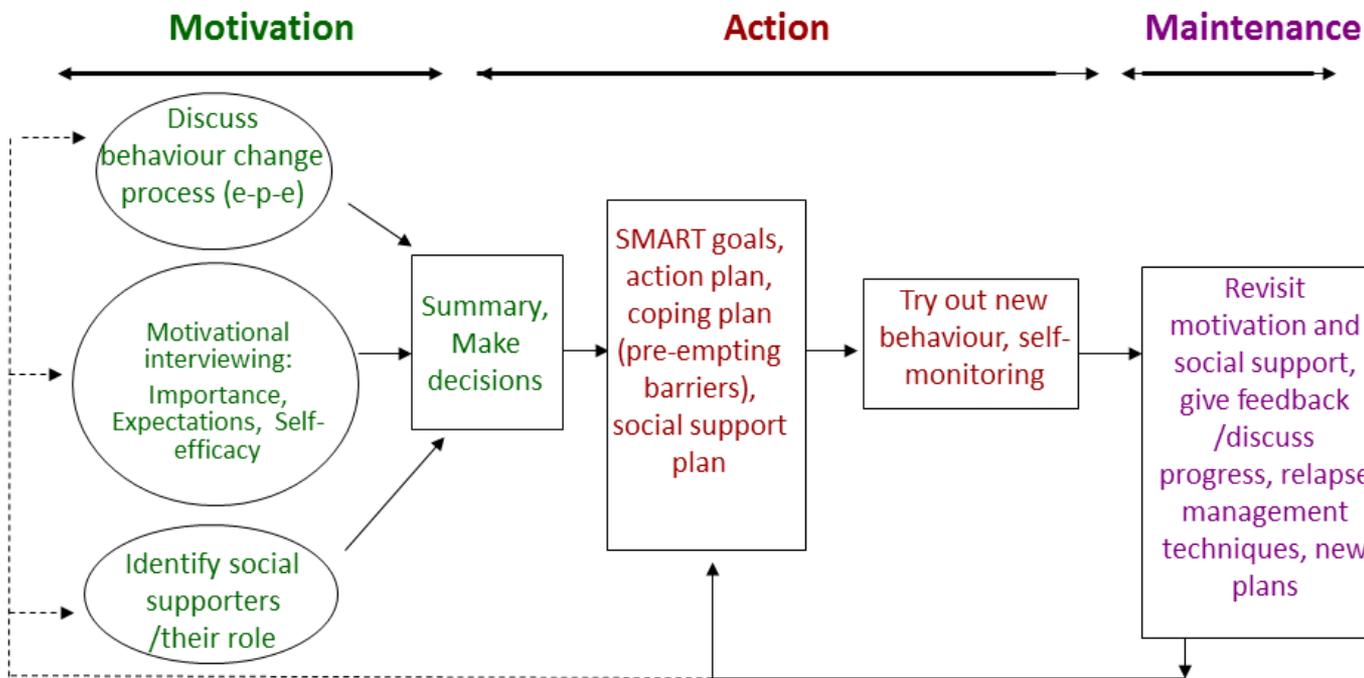
**Prevention must
address needs**

Quality of life drives adherence



- successful disease management includes patient behaviour change

Behaviour Change works in stages



Astrid Krag, MoH Denmark

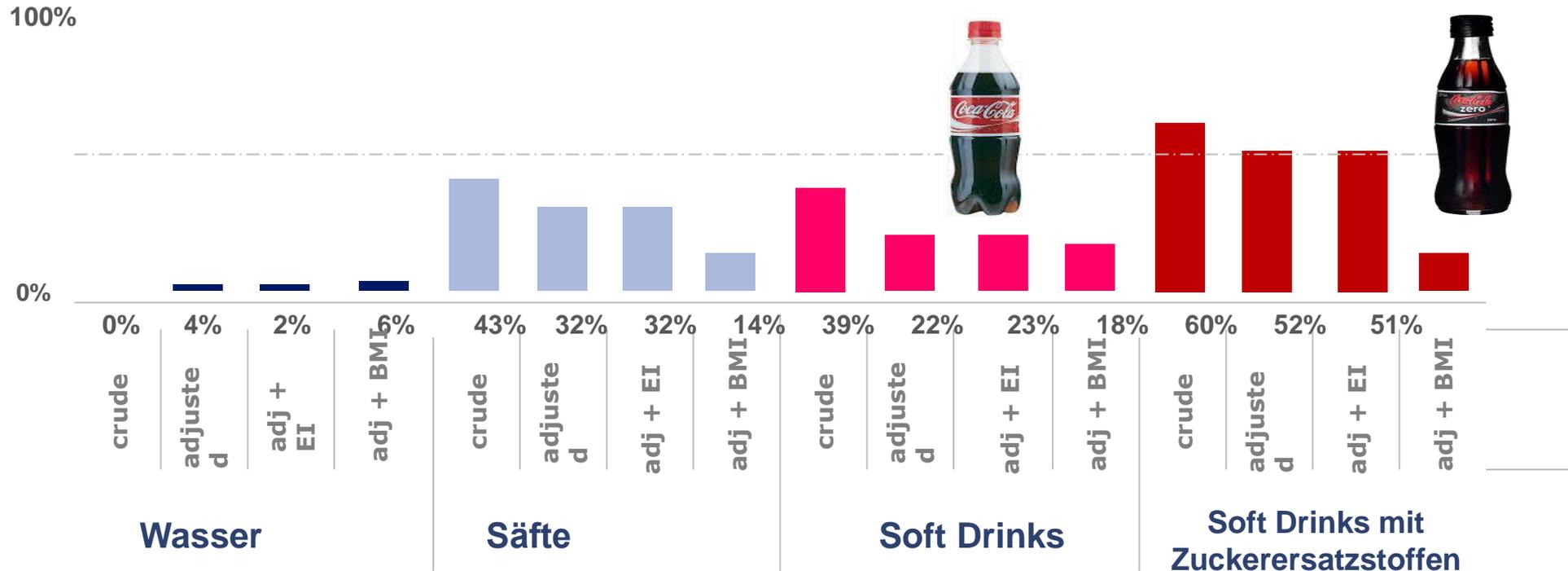
Self-management is the only way. Educational programs must support Self-management and informed decision making

Desislava Dimitrova, DMOH, Bulgaria

Chronic Care Management is the most effective way to improve Self-Management

**Prävention
becomes
specific**

Wie erhöht ein Softdrink (336 g) das Risiko für Diabetes mellitus



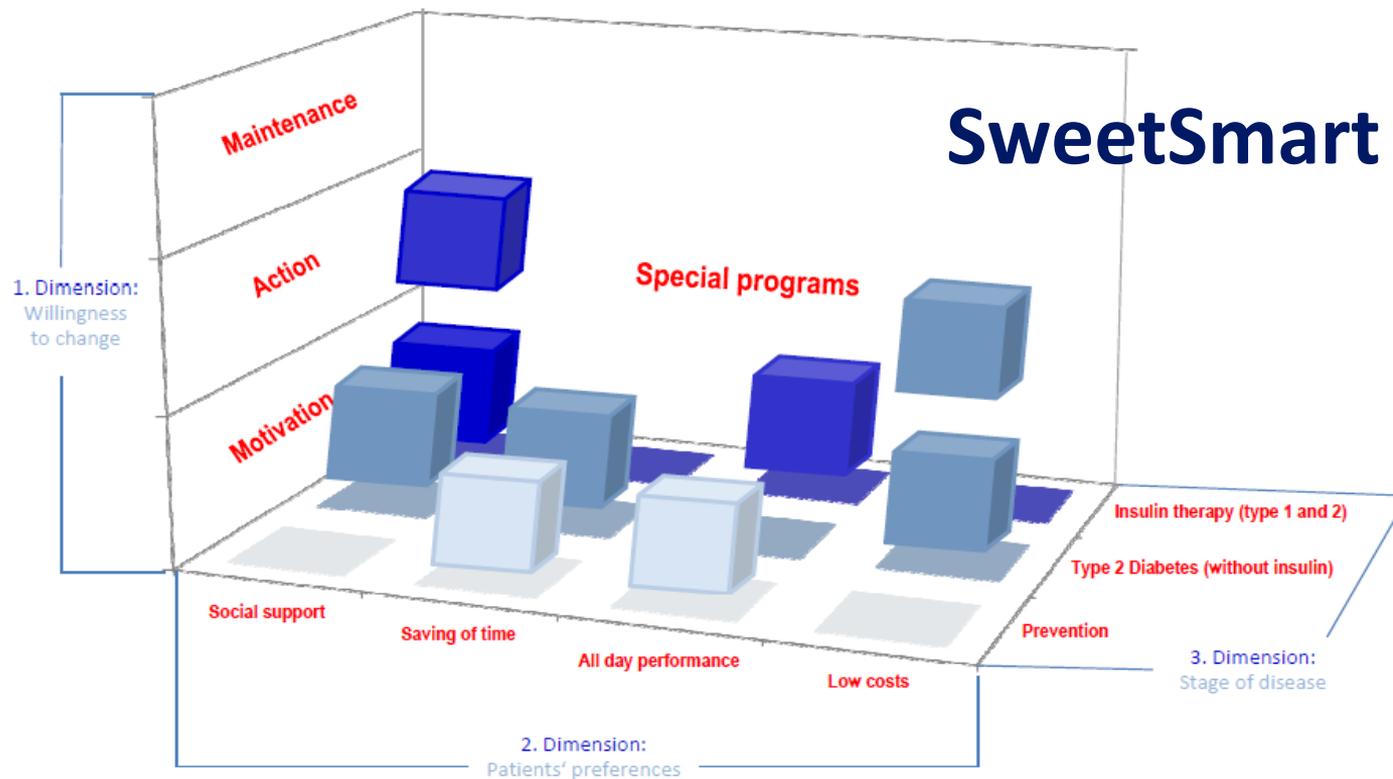


This is our lifestyle

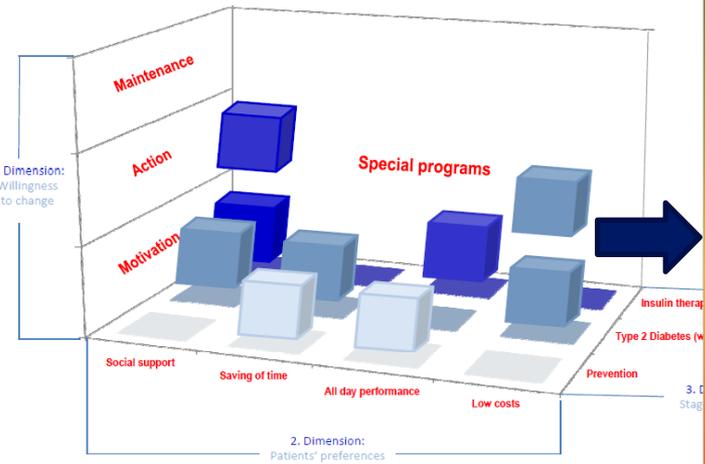


**Prevention
becomes
individualized**

Individualism - strength for empowerment



Competence Toolbox



Assessment and risk stratification

Hypoglykämie	Individuelles Essverhalten:	Bewegung mit Handicap	Keine Zeit für Bewegung?	Motivation fehlt:	Rückfall Prophylaxe 4	1000 Schritte mehr wöchentlich
Hyperglykämie	Esstagebuch	Bewegung und Essen	Familie in Bewegung	Motivationsanalyse	Motivational Interviewing	Ich will nicht
Reisen	Ballaststoffe	Welche Bewegung schafft wieviel?	Sportvereine	Ich traue mir das nicht zu	Mot.-Aufbau	Ich kann nicht mehr
Familie	5 am Tag	Schrittzähler	Anlaufstellen, regionale Angebote	Selbstwirksamkeit stärken,	Erfolgsresultate schaffen	Wettbewerb
Schwangerschaft	Nährstoffzusammensetzung	Saisonale Bewegungsarten	Individuelle Risikoanalyse	Ich weiß nicht, was ich machen soll!	Rückfall Prophylaxe 2	Depression
Gestationsdiabetes	Trinken	Bewegungstagebuch	Diabetes	Unterstützung bei Zielsetzung	Rückfall Prophylaxe 3	Smartphone
Diabetischer Fuß	Snacks	Individuelle Trainingspläne	Metabolisches Syndrom	Ich fühle mich alleingelassen	Reflective listening	Sport
Bewegung mit Diabetes	Mahlzeiten-gestaltung	Spezielle Bewegungsarten:	Risikostratifizierung	Soziale Unterstützung rekrutieren	Change Talk	Was will ich
Partnerschaft	Essen und Job	Was brauche ich dafür?	Ernährungstagebuch	Keine Beratung gewünscht:	Confidence ruler	Meine Angehörigen
Küchenfertigkeiten	Saisonales Essen	Wie starte ich?	Energieverbrauch bei Bewegung	Rückfall Prophylaxe 1	Aktionsplan	Ziele
Alkohol	Allergien Unverträglichkeit	Wo? Mit Wem?...	/ Genussmittel	(Urlaub, Feste	10000 Schritte am Tag	Meine Bedürfnisse

**Prevention
becomes digital**

Assessment and risk stratification



PKZ	0	1	2	3	4	5	6	7	8	9	10	11	12
PKZ0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PKZ1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PKZ2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
PKZ3	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
PKZ4	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
PKZ5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PKZ6	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
PKZ7	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
PKZ8	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
PKZ9	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
PKZ10	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PKZ11	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
PKZ12	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
PKZ13	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
PKZ14	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
PKZ15	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
PKZ16	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
PKZ17	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
PKZ18	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
PKZ19	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
PKZ20	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
PKZ21	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0

Daily steps

Body weight

Blood pressure

Blood sugar

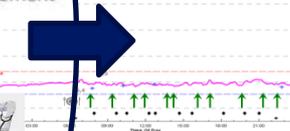
Insulin dosis

Adherence

preferences

Motivation

Peer group



- Individual feedback
- Lifestyle support
- Evaluation of therapeutic quality
- Stratification of risk for disease progression and associated complication
- Urgency of transfer to specialist
- Therapie adherence and compliance
- Identification of optimal intervention support
- Individual assisted support (paper, SMS, email, APP)
- Quality management

Competence Toolbox



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Alkohol	Allergien Unverträglichkeiten	Wo? Mit Wem?...	/ Genussmittel	(Urlaub, Feste	10000 Schritte am Tag	Meine Bedürfnisse

Innovative patient education – individualized but centralized

- Patient receives education online through social education network
- Educational modules are selected based on persons individual needs
- Educational content vary based on educational medical and motivational needs
- Interactivity and peer support assure adherence

PatientsakademieLogo Home Schulungen Login

Die Patientenakademie

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean commodo ligula eget dolor. Aenean massa.

Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem. Nulla consequat massa quis enim. Donec pede justo, fringilla vel, aliquet nec, vulputate eget, arcu. In enim justo, rhoncus ut, imperdiet a, venenatis vitae, justo.

[mehr Informationen](#)

Unser Schulungsangebot

Dem Diabetes davonlaufen

Untertitel hier. Lorem ipsum dolor sit amet

Aenean leo ligula, porttitor eu, consequat vitae, eleifend ac, enim. Aliquam lorem ante, dapibus in, viverra quis, feugiat a, tellus. Phasellus viverra nulla ut metus varius laoreet. Quisque rutrum. Aenean imperdiet.

[Action button](#)

Thema 2 Headline

Nam quam nunc.

Etiam rhoncus. Maecenas tempus, tellus eget condimentum rhoncus, sem quam semper libero, sit amet adipiscing sem neque sed ipsum.

[Action button](#)

HealthThema

Integer tincidunt. Cras dapibus.

Aenean leo ligula, porttitor eu, consequat vitae, eleifend ac, enim. Aliquam lorem ante, dapibus in, viverra quis, feugiat a, tellus. Phasellus viverra nulla ut metus varius laoreet. Quisque rutrum. Aenean imperdiet.

[Action button](#)

Testen Sie Ihr Risiko

Nutzen Sie unseren Risikotest um Nam eget du. Etiam rhoncus. Maecenas tempus, tellus eget condimentum rhoncus, sem quam semper libero, sit amet adipiscing sem neque sed ipsum. Nam quam nunc, blandit vel, luctus pulvinar, hendrerit id, lorem. Maecenas nec odio et ante tincidunt tempus. Donec vitae sapien ut libero venenatis faucibus. Nullam quis ante. Etiam sit amet orci eget eros faucibus tincidunt. Duis leo.

[Action button](#)

**Prevention
becomes
individual**

10.000

steps a day from the age of 22 prevents any chronic disease

1.000

additional steps a day reduces postprandial glucose by **1,5 mmol/l**

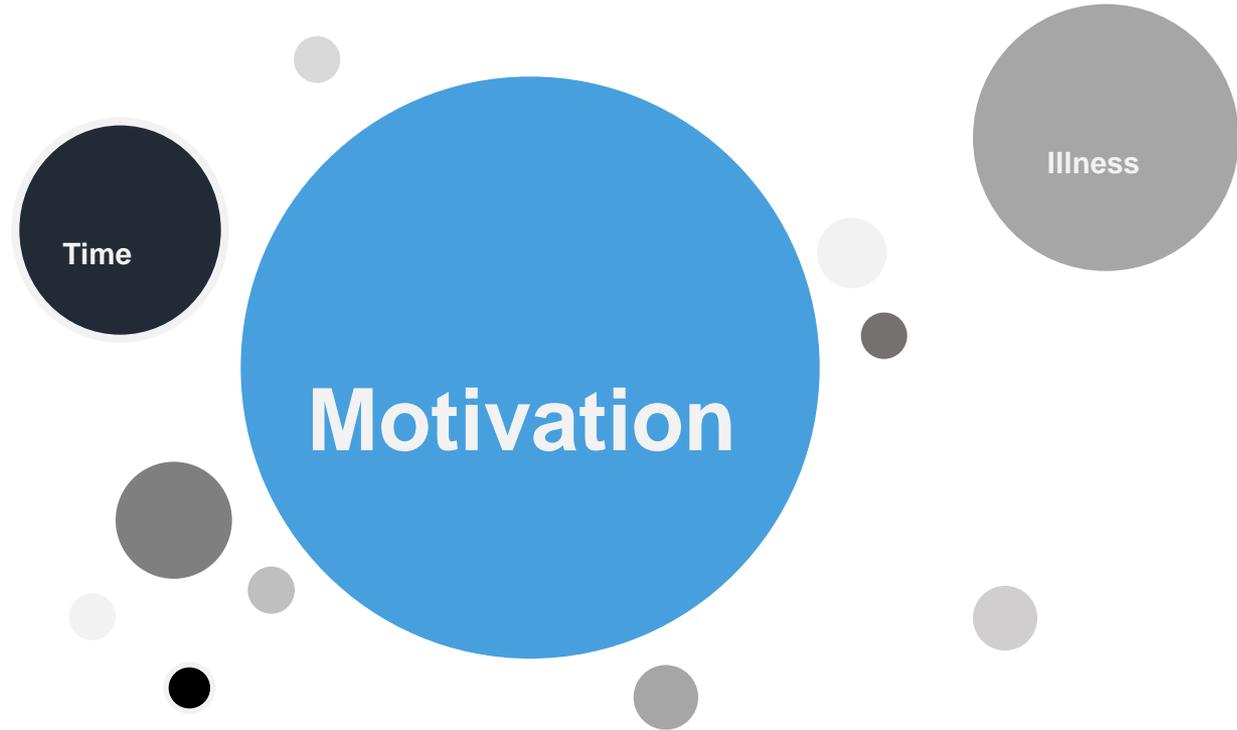
27000

How many hours a day are we inactive?

23.40



What keeps us from walking 10.000 steps?



What makes us walk the 10.000 steps – findings from motivational research



Immediate benefit

Our behavior has to produce an immediate reward for us.

We are much more motivated to do something if this behavior brings an immediate reward for us.



Perspective of loss

If we can prevent loss by doing something, we will do it.

The perspective of losing something motivates us more than the perspective of winning something.



The Anker-Principle

Motivation through monetary Incentivation



Anker-Prinzip – verankert die Motivation für ein Ziel am Gewinn bzw. Verlust von Geld



Wette auf die eigene Performance

Der Einzelne wettet darauf, dass Ziel zu erreichen und bestimmt einen Betrag, den er verliert, sollte er das Ziel verfehlen.



Motivation durch Aussicht auf Verlust und Gewinn

Die Aussicht auf den Verlust des Einsatzes bewirkt einen Motivationskick, ebenso wie die Aussicht auf einen Zugewinn bei Zielerreichung.



Masterarbeit Anker5-amTag

Anica Jakubzyk



- WhatsApp-Group(Anker Principle) vs. Paper checklist (no Anker support)
- Goal: 2 Portions fruits & 3 Portions vegetable daily
- Making a photo and post your meal within the group in a ready to eat format @Mario:👍G 👍0
- Evaluation per hand
- Anker bid was valid for 7 days
- Participants post the weekly bid within the group
- All losses were distributed to the winners



Anker5-aDay - Results



Anker5-amTag

WhatsApp-Group

- Mean increase from **3 portions /Day** –
from 2,4 to 5,4 Portions a day
- In 96% of te cases the people reached the
5 Portios a day

Paper checklist

- Mean increase from **0,3 portions /Day** –
from 2,2 to 2,7 Portions a day
- In 12% of te cases the people reached the
5 Portios a day

Apps for physical activity

Apps for PA on the market



Apps for Physical activity

Pedometer APP`s

- Use movement sensor
- Run in the background
- No start/Stop necessary
- Count steps, calculate distance and burned calories
- Optimal for daily physical activity

Fitness Apps

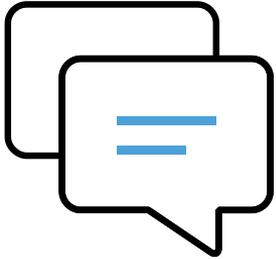
- Use GPS
- Tracking of training units
- Start/Stop necessary
- Optimal for sportive activity not effective for daily activity

Lifestyle Apps

- Activity sensor & GPS
- Count steps automatically in the background
- Start/Stop necessary to track training unit tracking form nutritional behaviour
- Tracking of sleep quality

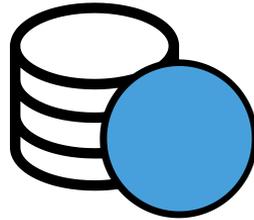
Linking with Gadgets

Apps for Physical activity - Motivators



Feedback

Jawbone, Argus, Runtastic,...



Monetary incentive

Pact, miwalk, Nexercise,...



Gamification approach

Zombies Run, Bring Back my Pets, Max-My Fitness Dog,...



Training plans

C25K, fitbit, dacadoo,...

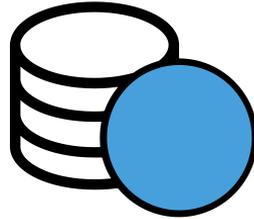


Apps for Physical activity - Motivators



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Apps for Physical activity - Facit

- Many many apps and gadgets are on the market



Apps for Physical activity - Facit

- Many many apps and gadgets are on the market
- Only a few APP`s which work with monetary incentivitation and support



Apps for Physical activity - Facit

- Many many apps and gadgets are on the market
- Only a few APP`s which work with monetary incentivation and support
- There is no App available which support the user with an sustainalbe healthy lifestyle change



AnkerSteps

With the Anker Principle you can reach 10.000 steps a day





10.000 Steps a day With AnkerSteps you will achieve this

The Motivational App AnkerSteps helps you to reach your steps goal
and rewards your for every active day with cash money.



www.ankersteps.com



How AnkerSteps works



Commit to you!

You agree to walk 10.000 steps per day and you set an amount of money that you will give to other AnkerSteps users in case you lose your bet.



1

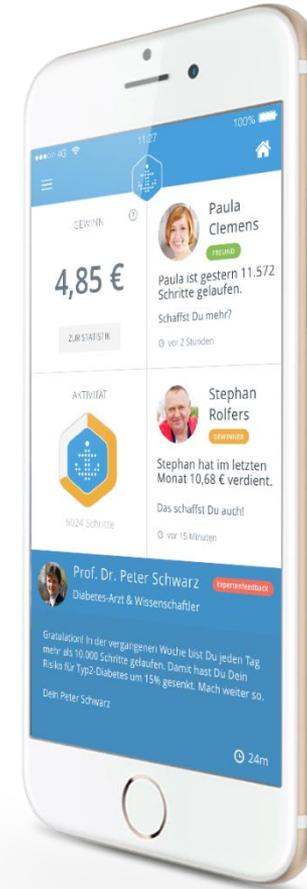


How AnkerSteps works



Win your game!

The perspective of losing your stake if you don't reach the 10.000 steps will give your motivation an unexpected boost.



2



How AnkerSteps works



Get rewarded!

For each successful day you keep your stake and get a reward on top, payed to you by AnkerSteps users who walked less than 10.000 steps that day.



3



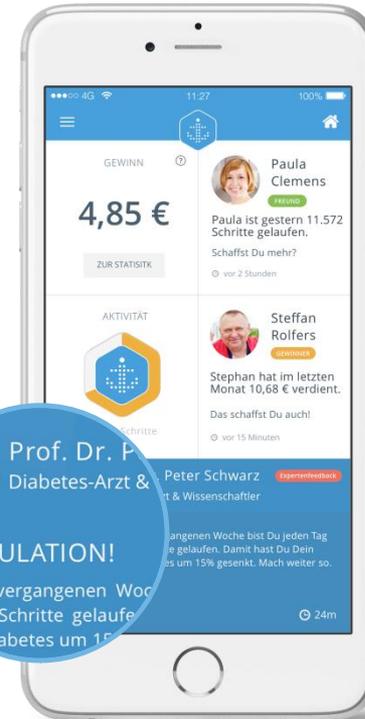
AnkerSteps – intuitiv und alltagstauglich

- ✓ Synchronisation with pedometers and pedometer APP`s like Fitbit, Jawbone, Google Fit, S-Health, I-health etc.
- ✓ easy transaction for winning stakes and losses through PayPal
- ✓ „Lazy days“



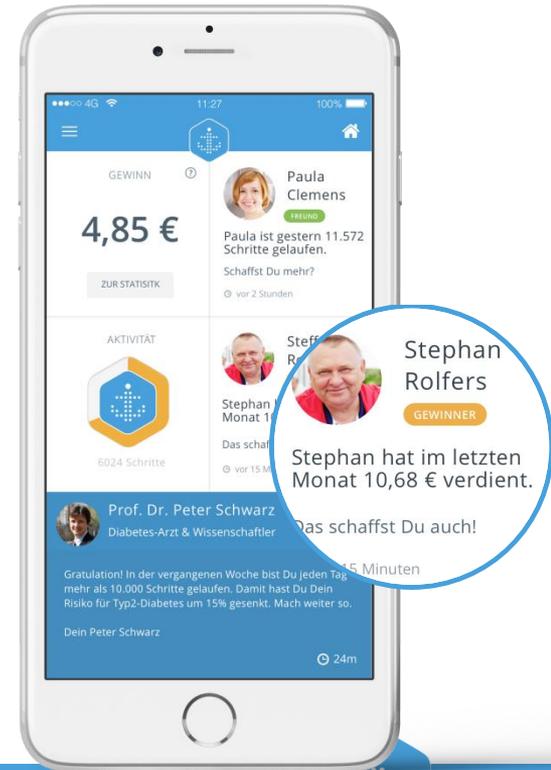
Add. Motivators – Performance dependent Expert feedback

- Personalized motivational messages
- Feedback about the health effect of the own daily physical activity
- Experts: Physician, Sport and nutritional scientist, prevention manager

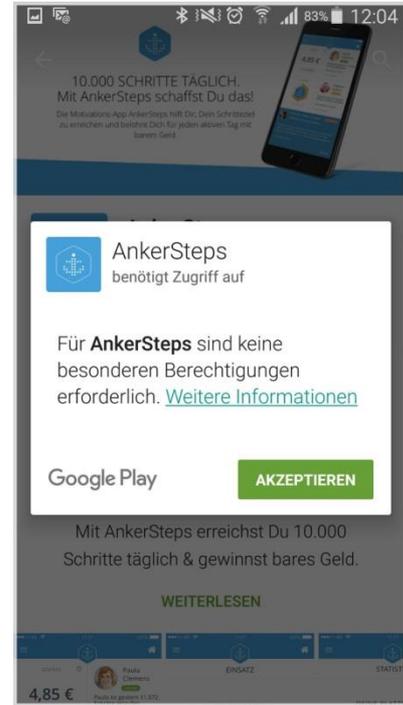
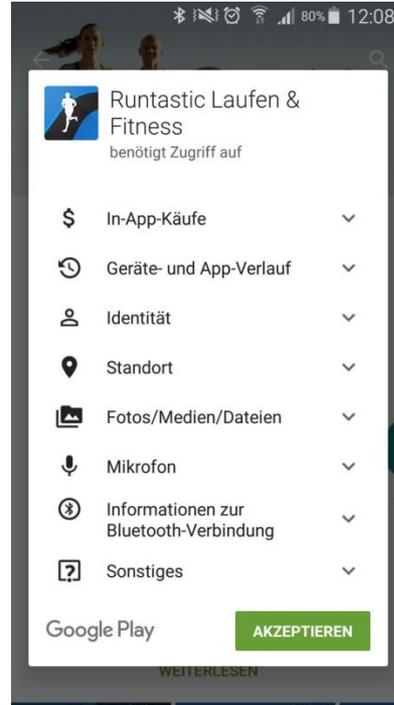
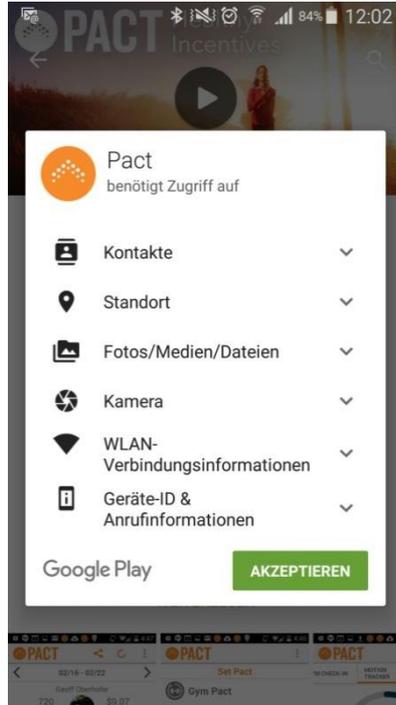


Add Motivators – social support

- Via E-Mail and Facebook invite friends to join
- Share step count and incentives, records and pay out
- Incentive for every new friend to join



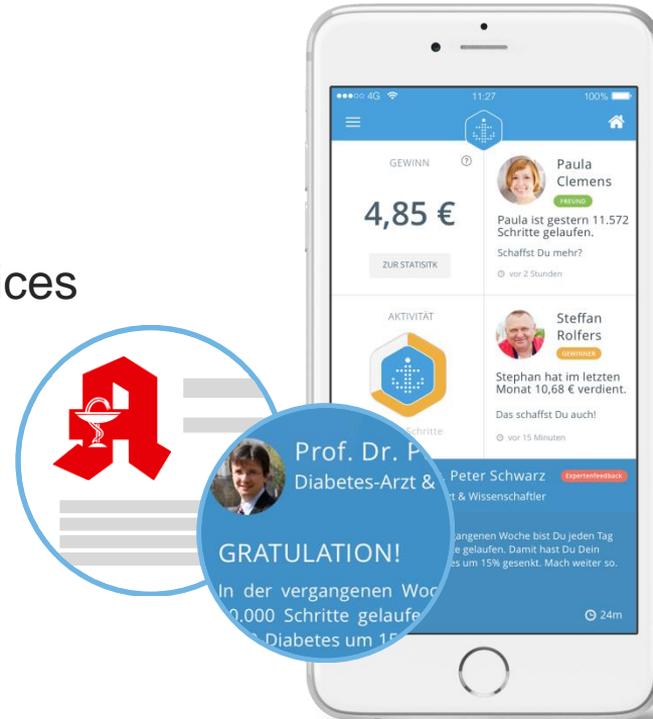
Data safety: AnkerSteps does not save data



Reach your patients with AnkerSteps

Via Push-Messages within the App

- Personalised messages
- Invitation to events, Programs, Services
- Text with 650 icons & Weblinks,
- individual Layout



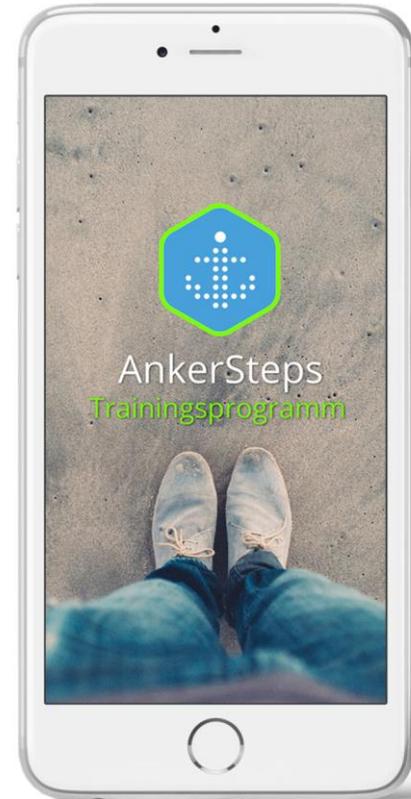
With the PromoCode-System you can contact your clients directly

- PromoCode for Online- and Prevention Campaign's „STOP DIA“
- Accurate linkage from your clients to your campaign
- targeted contact to the clients
- Share the win



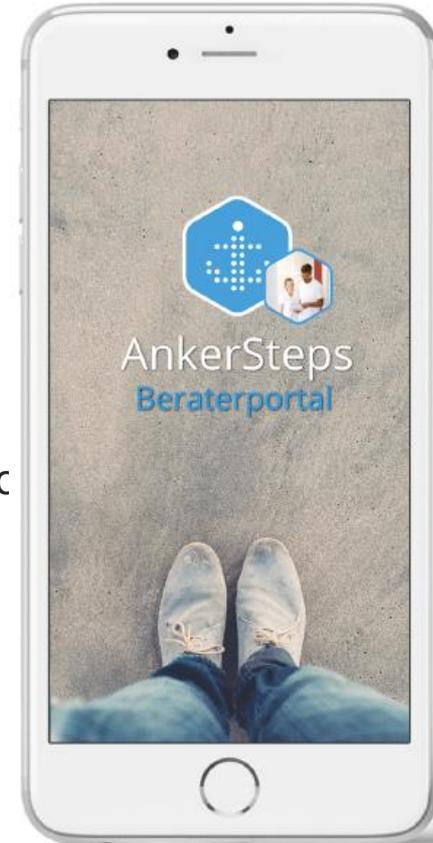
New AnkerSteps Feature: Training program

- This feature breaks barriers to start daily physical activity
- supports the User STEP by STEP on the way to his personal step goal auf dem Weg zu seinem persönlichen 10.000 Schritteziel
- For every user an individual training



New AnkerSteps Feature: Coaching portal

- Health support 3.0
- This Feature offers health care professionals and – workers to coach and communicate with their clients and patients through AnkerSteps



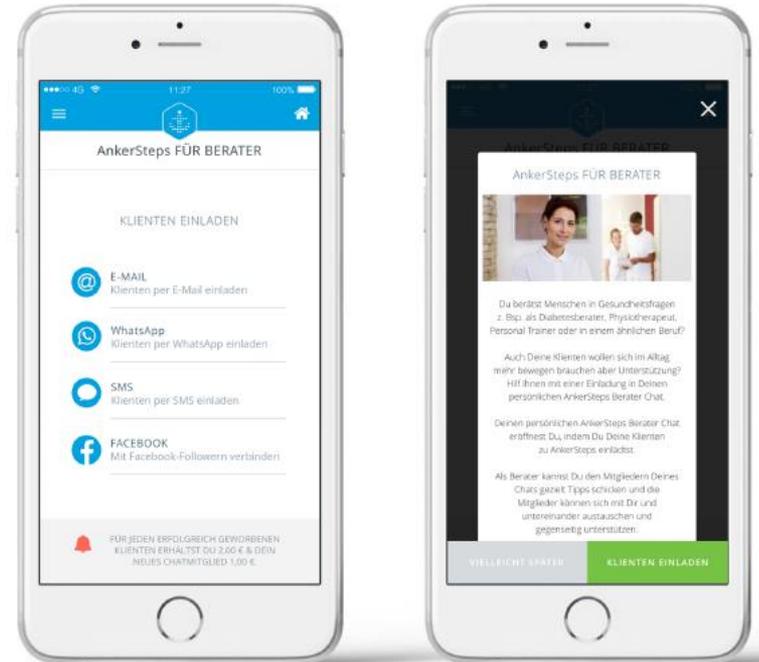
New AnkerSteps Feature: Coaching portal

Advantages for the Coach:

- Coach-Group-Chat
- One-on-one-Chats
- Send messages directly to the client into the APP

Advantages for the client:

- Social network with others in the group
- Coaching via Handy / Smart Phone
- Private chat with the coach





100.000 Persons participating with AnkerSteps

Participation 1 year, 60% success rate

Improvement of

- glycaemia -2,5 HbA1c-%
- blood press. -5 mm/Hg
- fat mass -3,7 kg
- cholesterine -17%
- triglycerides -12%

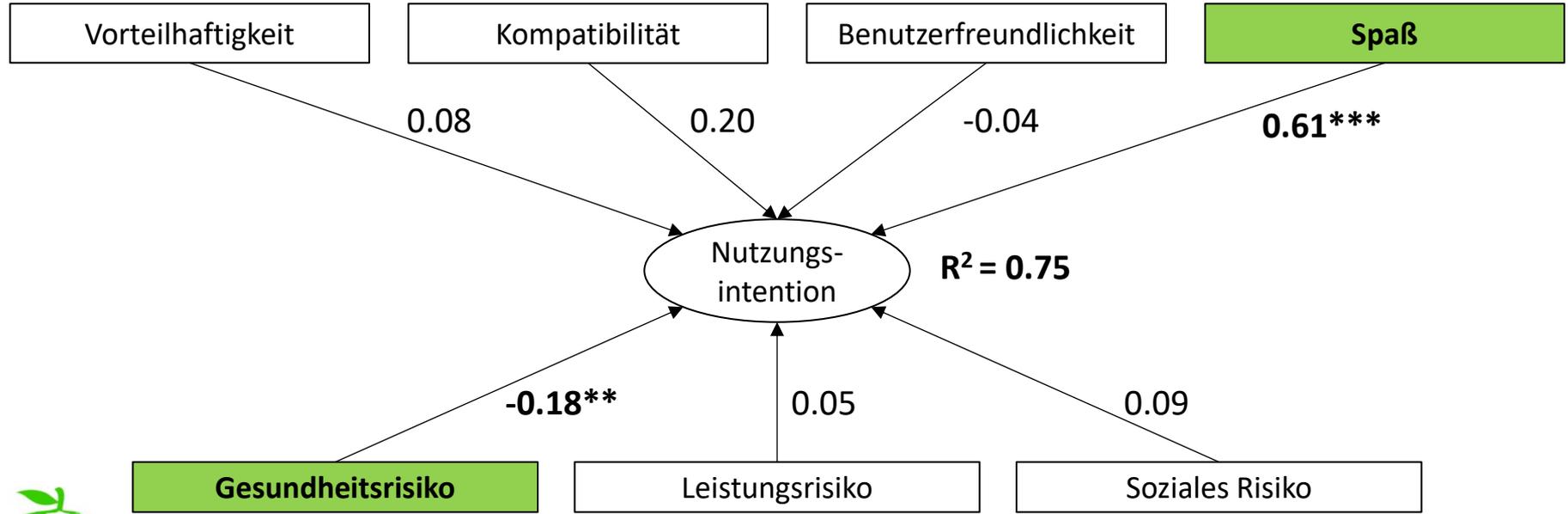
- Depression 48% (1200)
- Metabolic Syndrome 78% (5700)
- AMI 68% (80)
- Stroke 43% (56)
- Dementia 52% (230?)
- Diabetes 58% (8000)



Ergebnisse Hauptstudie: Akzeptanz und Barrieren

Anker Steps

Fazit: Der Spaß an der Nutzung ist der wesentliche Einflussfaktor für die Akzeptanz von Anker Steps. Eine Barriere liegt im vermuteten Gesundheitsrisiko.



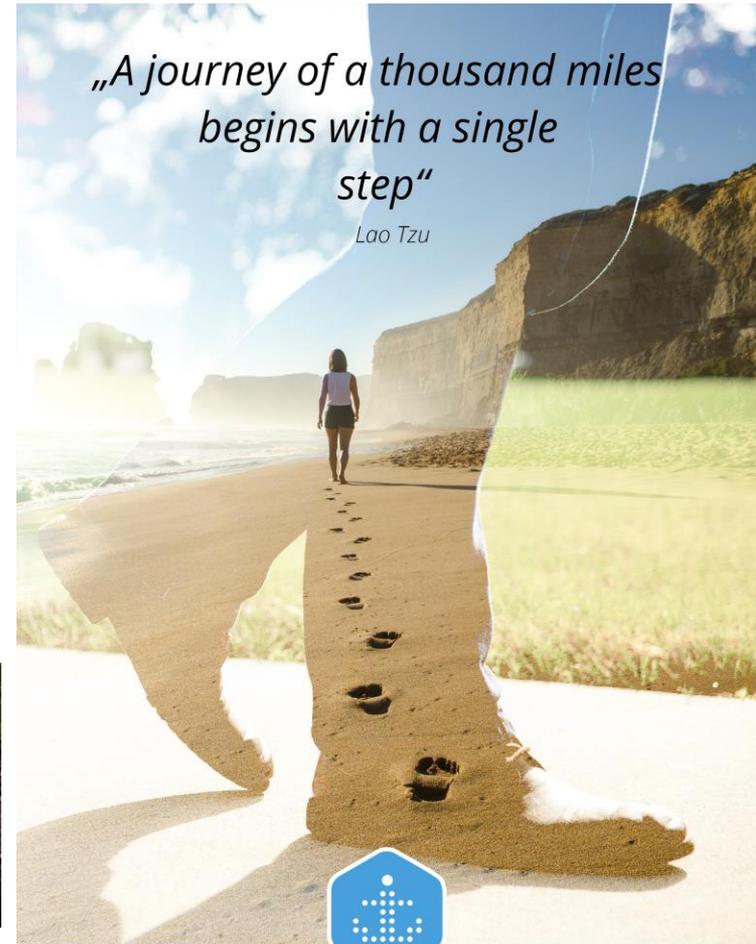
10.000

AnkerSteps Onlinemarketing



AnkerSteps im Social Media Bereich

- die Marke AnkerSteps präsentiert sich auf Plattformen wie Facebook, Instagram und LinkedIn
- Themen rund um 10.000 Schritte, Motivation, Bewegung und Gesundheit





north america: 681
africa: 130

south america: 135
asia: 415

europa: 1444
australia: 111



2nd Annual
**ARAB DIABETES
MEDICAL CONGRESS**
17-19 November 2016 | Rotana City Centre, Doha, Qatar

Walk away from Diabetes

Diabetes

Diabetes is a condition characterized by high blood sugar levels. Insulin, a hormone produced by the pancreas, is the hormone that regulates glucose levels in the blood. In people with diabetes, the body either does not produce enough insulin or the cells in the body do not respond properly to the insulin that is produced. This can lead to a variety of complications, including damage to the heart, kidneys, and eyes.



Every Step Counts

WALK MORE

Beat diabetes



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**Inter-
connected
digital
tools**