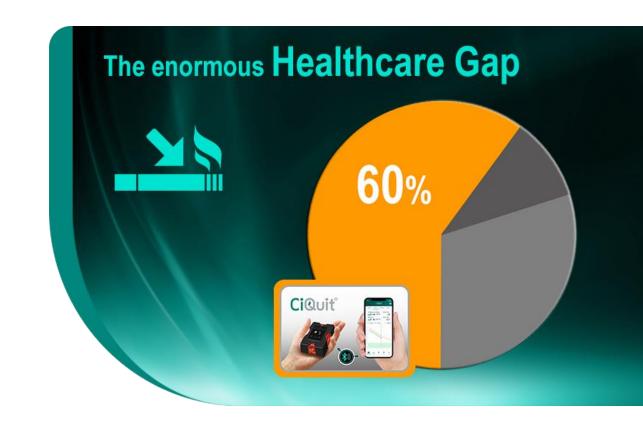


The Healthcare Gap Smoke "Less" First!

Taking Germany as an example.



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Tobacco consumption

Tobacco consumption is the leading preventable cause of premature mortality worldwide.

Further PDF documents



- The scientific background https://www.luna-medical.com/en/scientific/
- The proof-of-principle study https://www.luna-medical.com/en/pop-study/
- The patent https://www.luna-medical.com/en/patent/
- Cooperations with companies https://www.luna-medical.com/en/companies/
- Cooperations with health insurance funds https://www.luna-medical.com/en/health-insurance/
- Cooperations with pharmaceutical companies https://www.luna-medical.com/en/pharmaceuticals/
- The covered need Quit smoking "now" https://www.luna-medical.com/en/covered-need/
- The enormous healthcare gap Smoke "less" first https://www.luna-medical.com/en/healthcare-gap/
- Smoking A global overview https://www.luna-medical.com/en/global-overview/

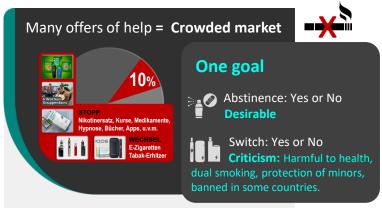


1. Differentiation: "Covered need" vs. "CiQuit"

There is a lack of a practical **reduction program** that leads to complete smoke-free status.

The offering must drastically reduce the physical and mental dependence on cigarettes.

Quit smoking "now"!

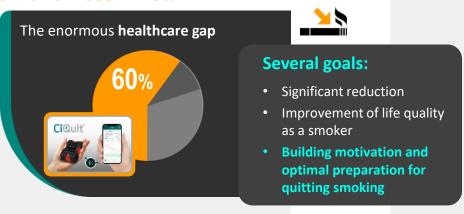


Only - **around 10%** - of smokers attempt to quit smoking each year or try switching to alternative products.

There are many support options available for the desirable complete smoking cessation, such as nicotine replacement therapy, medication, courses, hypnosis, acupuncture, apps, and more. Despite all the offers of help, the relapse rates are immense!

= Covered need

Smoke "less" first!



The majority of smokers - **around 60%** - want to reduce their consumption before quitting smoking.

From a medical perspective, the program must not only enable a significant reduction but also specifically prepare the body and mind for smoking cessation.

It must reactivate the ability to abstain and effectively motivate towards quitting smoking.

= Uncovered need

What addiction experts say!



The reduction of smoking ...

- ... increases the likelihood of a future attempt to stop smoking.
- ... strengthens the patient's confidence in their ability to stop smoking completely and increase the number of quit attempts per year.
- ... reduces at least some of the risks associated with smoking.¹

"Reduction treatments ...

... are aimed at people who are willing to change but are unable or unwilling to lead an abstinent lifestyle. Various field studies, randomised control group studies and meta-analyses have shown that significantly more people are willing to reduce than to abstain ..."²

Prof. Dr. Joachim Körkel u. Matthias Nanz, The paradigm of open-ended addiction work, 2016,



2. Our offer for the majority of smokers!

The solution

Stepwise **reconditioning** of smoking behavior by unlearning the mental and physical dependency.

Using a proven milestone approach towards a smoke free life.

Goal 1

Significant reduction in the consumption of cigarettes



without craving!

- Reduction > 50%
- At best 5 or less cigarettes a day

Goal 2

Improving the quality of life of smokers who (still) smoke



- Health benefits*
- **Financial savings**
- Mental well-being
- Improved sense of taste and smell
- Social acceptance

Goal 3

Motivation building and optimal preparation for quitting smoking





6 months (Basic setting)

of weaning.

Or adaptation to the progress



Ability to

abstain

Reconditioning

with CiQuit-Box and CiQuit-App



The reduction of smoking ...

- ... increases the likelihood of a future attempt to stop smoking.
- ... strengthens the patient's confidence in their ability to stop smoking completely and increase the number of guit attempts per year.
- ... *reduces at least some of the risks associated with smoking.1

What addiction experts say!

"Smokers who are addicted to tobacco can hardly imagine quitting smoking immediately.

They can only imagine quitting smoking by reducing the cigarette consumption step by step."2

> Prof. Dr. Robert Olbrich. Otto Selz Institute for Applied Psychology





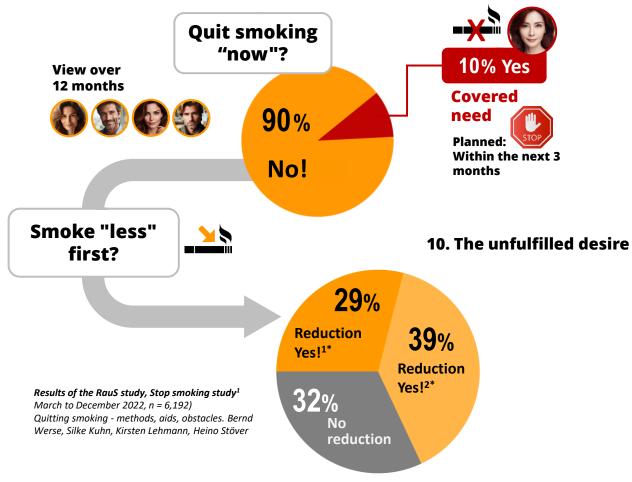
For a detailed explanation see: www.luna-medical.com/en/scientific

¹⁾ Source: https://ensp.network/wp-content/uploads/2020/10/guidelines 2020 english forprint.pdf | S. 91 ff

²⁾ Source: https://www.google.com/search?q=20.+t%C3%BCbinger+suchttherapietage+2015+suchttherapie+im+wandel+der+letzten+zwei+jahrzehnte&clien

3. The healthcare gap = Smoke "less" first!

The unfulfilled desire



1* 29% = Only smoke on certain occasions

^{2*} 39% = Smoke less cigarettes per day



... for the unfulfilled desire

1. The gentle introduction to smoking cessation



2. The permanent reduction of consumption*



* Abstinence motivation will be developed during the CiQuit therapy!





4. Large uncovered need

Smoke "less" first! = An easy way to start changing your behaviour

That's what science says!

"Glasgow et al. estimate that an additional 22% - 39% of smokers could be reached by a reduction offer.

This includes smokers who are willing to change their smoking behaviour but





Offers designed to help replace tobacco cigarettes





Global sales | Forecast 2030

US\$ 98,7 billion3

Key-companies: Philip Morris International, British American Tobacco, Japan Tobacco, Imperial Brands, Altria, China tobacco, Korea Tobacco & Ginseng Corporation, American electronic cigarette company, VMR Products







Competitors focus on switching

to substitute products or

Covered need

E-cigarettes



Global sales | Forecast 2030

US\$ **63,4 billion**4

Key-companies: Altria Group, British American Tobacco, Imperial Brands, International Vapor Group, Japan Tobacco, International, NicQuid, JUUL Labs, Philip Morris International Inc, R.J. Reynolds Vapor Company, Shenzhen IVPS Technology Co., Ltd.,





Offers designed to support the desirable complete smoking cessation.















Global sales | Forecast 2030

US\$ 3,9 billion5





5. Rubicon model: CiQuit - The quick decision to use

This is what the medical profession says!1

Ineffectiveness

"Patients are usually only slightly motivated or not motivated at all to quit smoking."

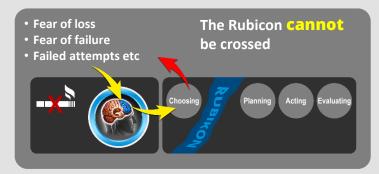
Too time-consuming

" Initiating tobacco cessation is cumbersome and doomed to fail in most cases."

Quit smoking "now"!

Fear of losing something "precious"!

- Long decision-making process
- High persuasion effort



No, not now!

Rubicon model²

Choosing (pre-decisional phase):

The thought of quitting smoking completely can be overwhelming and daunting. In contrast, the goal of smoking less initially appears less threatening and more achievable.

Setting smaller goals, such as step by step reducing the daily cigarettes, helps reduce the feeling of being overwhelmed.

CiQuit - Smoke "less" first!

No fear of losing something "precious"!

- Fast decision-making process
- Low persuasion effort



Motivational psychology

Rubicon model

- It is important that wishes are transformed into concrete goals.
- This is known as crossing the Rubicon.

A clear goal ends choosing and sets the organism to "GO!"

Choosing
 Reduce your smoking?
 Simple decision
 = Yes. I will!

- Planning
 The CiQuit therapy takes over!
- Acting
 The CiQuit therapy will be realised!
- Evaluating
 Subgoals successfully realised?
 Maintaining motivation, as the partial successes adapt to the patient's progress.

²⁾ Source: https://studyflix.de/biologie/rubikon-modell-5221

6. CiQuit: No or only low barriers to utilisation

Effort during

use

Barriers to utilizing offers of help •

Use of the

method

in %

Side effects

Costs

Quit smoking

attempts per year

Effort



Method of

implementation

Low willingness to use

Example Germany	
Success rate	

Covered need - quit smoking "now"! (Methods with high evidence)

Side effects

	िक्ष्मिक्कि Own willpower	No	No	No	60 %	1.200.000	≈ 5 %	One goal:
10 0/	NRT Nicotine replacement therapy	No	Low	High ≈ 150 -300 €	8 %	160.000	≈ 15 %	Quit smoking
10 %	Medication e.g. Zyban, Champix	No	High	High ≈ 150 - 300 €	1%	20.000	≈ 2 5 %	YES or
	Courses with presence	High	No	High ≈ 150 - 250 €	1%	20.000	≈ 35 %	NO

Costs

Uncovered need - Smoke "less" first!

60 %	CiQuit	No	No	Medium ¹	= high willingness
60 %		No	No	No ²	to use

Goal: Inability to abstain > 80%

Several goals:

- Significant reduction
- Improvement of life quality as a smoker
 - Building motivation and optimal preparation for quitting smoking

1) Attractive subscription model, costs may be subsidised by health insurance companies and/or employers

2) Cost coverage by health insurance companies as DiGA = digital health application according to MDR I

Current S3 guideline¹

"When planning interventions, it should be considered that with increasing intensity of an intervention, acceptance among the target group and thus their accessibility, as well as the proportion of regular completers, decreases."

(S3 guideline: p. 97, para. 3, sentence 1)

Comparison of countries²

Use of Nicotine Replacement Therapy (NRT) during an attempt to quit smoking depending on the cost coverage by the healthcare system.



Germany
Cost coverage NO

3%

Using NRT during an attempt to quit smoking



England
Cost coverage **YES**

48%

Using NRT during an attempt to quit smoking

Target

group

¹⁾ Source: https://register.awmf.org/assets/guidelines/076-006l S3 Rauchen- Tabakabhaengigkeit-Screening-Diagnostik-Behandlung 2021-03.pdf

 $^{2) \ \} Source: https://www.aerzteblatt.de/archiv/211741/Rauchstoppversuche-und-genutzte-Entwoehnungsmethoder (Control of the Control of the$

7. Visibility of the CiQuit-System in the target group

Experience shows that every CiQuit user is immediately approached by other smokers about the **CiQuit-Box**.

Other smokers are asking:

- What is that?
- Where can I get this?



The CiQuit benefit can be communicated very easily via the **CiQuit-App!**





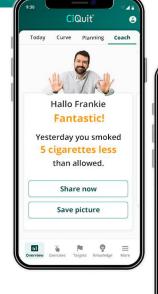




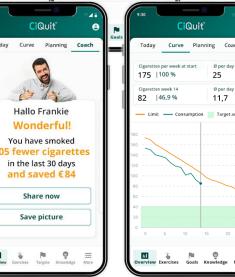


8. Why is the CiQuit box not bypassed?

If a diet reduces weight by 1 kilo every week and no hunger attacks occur, why should you deviate from the diet plan and eat on the side?







Second cigarette pack



CiQuit

- generates daily and weekly motivating partial successes without cravings.
- adjusts in case of overwhelm and prevents demotivating cravings.
- weans the body and mind step by step, prioritizing daily and weekly success over speed.

If the box is ever forgotten, smoked cigarettes can alternatively be entered into the CiQuit-App.



9. Quit smoking "now"! - In the context of the Rubicon model



or intrinsic motivation

Rubicon model Part 2

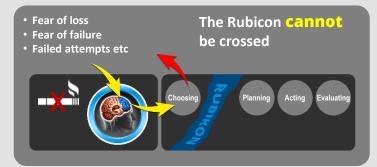
"The problem is that smokers too often quit far too late, on average after **five to ten attempts, which can sometimes last for decades.** By then, irreversible damage and smoking-related illnesses have long since been caused." 1

Quit smoking "now"!

Fear of losing something "precious"!

- Long decision-making process
- High persuasion effort

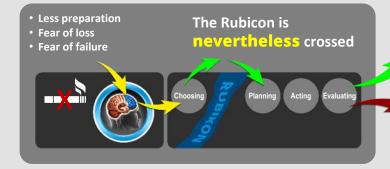
No, not now!



Quit smoking despite inability to abstain

Fear of "withdrawal symptoms"!

Concern: My suffering will be great and long-lasting



Yes, I will!



Stephan Mühlig

Head of the Psychotherapeutic University Outpatient Clinic TU Chemnitz





Low success rates

Next attempt to quit smoking is usually postponed for years



10. Quit smoking "now"! - Low success rates

Problem

The inability to abstain prevents successful smoking cessation! **Inability to** abstain





Psychological (mental) dependence +

Physical (bodily) dependence

Addiction centre

- Agonizing craving
- · Irritability and restlessness
- · Frustration and anger
- Sleep disorders
- · Concentration disorders
- · Decreased heart rate
- · Increased appetite and weight gain

Effects of nicotine withdrawal "Hungry nicotine receptors"



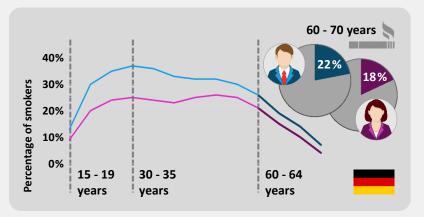
Quelle: J. Henningfield

High level of suffering

High relapse rates (despite help)

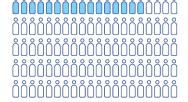
Next attempt to quit smoking is usually postponed for years

Permanent abstinence is achieved far too late, if at all!



Do nicotine replacement products help to quit smoking?³

Nicotine replacement products

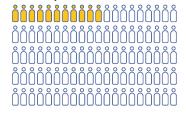


16 out of 100 people who used a nicotine replacement product no longer smoked.*

*(After 6 or 12 months)

Quelle: Hartmann-Boyce et al. (2018)

Placebo product



1 out of 100 people who used a placebo product no longer smoked.*



Quit smoking attempt method and success rate:

Only willpower



≈ 5 %

With a firm resolution to guit smoking for good and never light up a cigarette again, the probability of abstinence is 25% one week after making the resolution and less than 5% six months later. ¹ Unaccompanied attempts to stop smoking only lead to success in 3% to 5% of cases.²

Nicotine Replacement Therapy





63 studies with 41,509 participants: 17% who combined a patch with another intervention were able to guit, compared with 14% who used a single form of nicotine replacement therapy (NRT).4

Further methods and success rates: See Appendix 1 to 3



11. Smoke "less" first! with CiQuit - In the context of the Rubicon model

Rubicon model Part 1

6 month (Basic setting)

Or adaptation to the weaning progress.

Rubicon model Part 2

Smoke "less" first!

No fear of losing something "precious"!

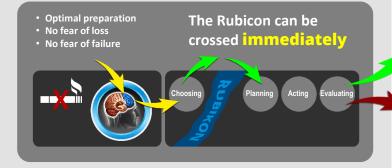
- Fast decision-making process
- Low persuasion effort



Quit smoking with ability of abstain

Developing an "anticipation" of a smoke-free life!

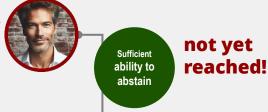
Self-confidence: Smoke-free is a gain in quality of life



Yes, I will!

- The CiQuit therapy is based on the socalled Rubicon model by Heckhausen and Gollwitzer, a motivation psychology process model that promotes goalrealizing actions through personal resources.
- The therapy guides willing smokers through various stages of maturation from the conscious desire to quit, through continuous partial successes, to the ultimate goal of lasting abstinence.





Continuation of the CiQuit Therapy



12. Smoke "less" first! with CiQuit - High success rates

Solution

Quit smoking with ability to abstain







Psychological (mental)
den dence +
Pl so al (bodily)
dependence

Addiction centre

Effects of nicotine withdrawal "Hungry nicotine receptors"

Greatly weakened!

At best, no longer available.



No or low level of suffering

High success rates*

In case of relapse, return to CiQuit with low consumption





- 1. First cigarette at the earliest 1 hour after waking up
- 2. 10 or less cigarettes a day

At best 5 or less cigarettes a day

- B. Extremely high motivation to try to quit smoking
- 4. Very good control over the smoke impulse
- 5. High awareness of one's own smoking behaviour
- **6.** Weak link between trigger stimuli and cigarette (reconditioning)
- 7. Low ambivalent attitude towards cigarettes
 (Self-confidence to cope with smoking situations e.g. stress without a cigarette)
- 8. No or weak craving during reduction
- No or little discomfort about quitting smoking (no fear of failure, no fear of loss)

Change mental attitude:

Building "anticipation" for a smoke-free life!



Thank you very much



Contact

Andreas Unsicker

E-Mail: unsicker@luna-medical.de Mobil: + 49 172 533 42 92

www.luna-medical.com

LUNA medical GmbH Yorckstr. 6 93049 Regensburg, Germany

What users say

Statements from the pilot study

"Very good thing, thanks to the control I was able to reduce my cigarette consumption from 18-20 to an average of 13 after just 8 weeks."

Rainer W.

"So I'm very enthusiastic, I arrived on day 30 and I can only say one thing: simply great."

Astrid P.

"The box made me realize how often I had reached for a cigarette without thinking. Now, before every cigarette, I think about whether I really want it and how many I have left to achieve my own daily goal."

Constanze K.

"It's simple to use. The box remembers your smoking behaviour pretty quickly and I have to say that I smile every time the access time is increased. Habit becomes mindfulness!"

Stefan F.

"I no longer light up a cigarette without thinking or reflecting. I can easily do without one or two. It makes you proud and, in retrospect, happy. I believe it is possible to become a real non-smoker. The brain adjusts to it. Great invention!"

Nils O.

