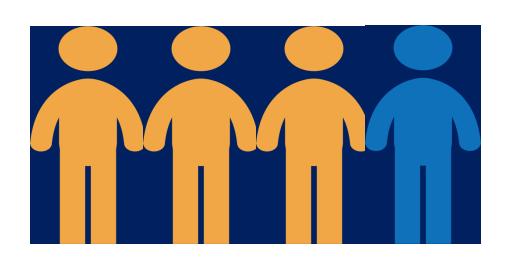
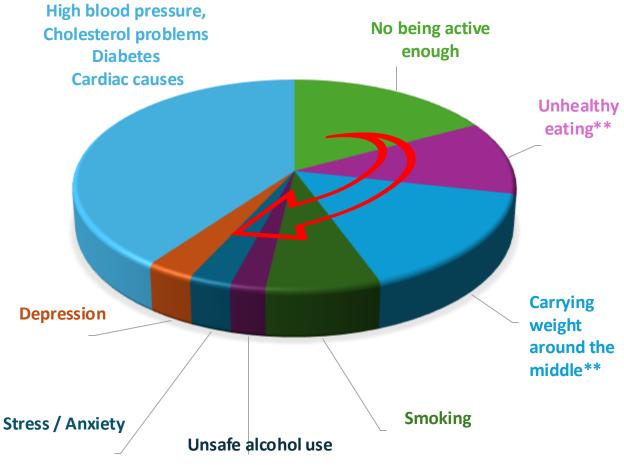
# Lifestyle behaviour change theories/techniques relevant to stroke secondary prevention

#### Changing habits is hard



## Why do we need to change habits after stroke? High blood pressure,



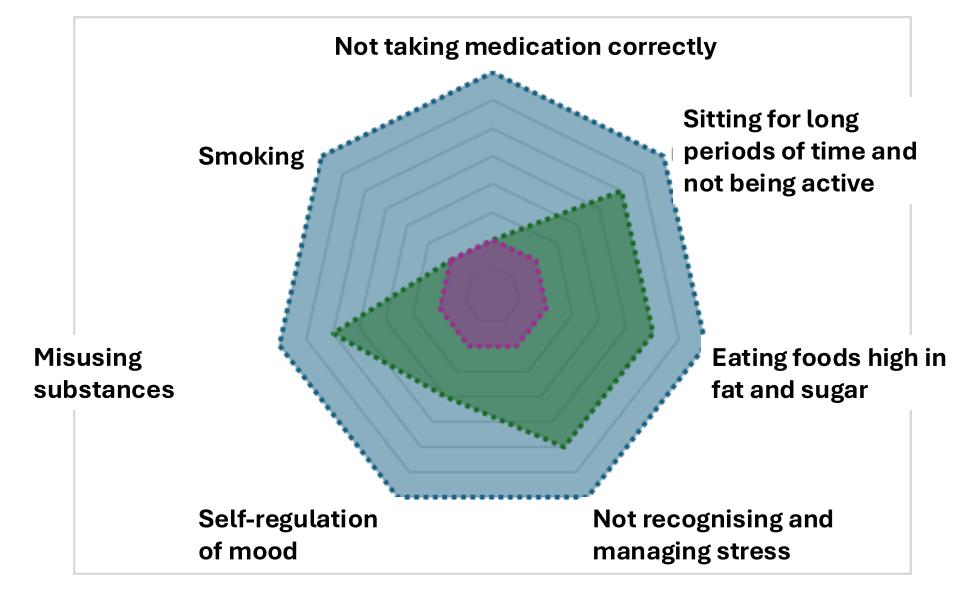






O'Donnell MJ, Xavier D, Liu L, Zhang H, Chin SL, Rao-Melacini P, Rangarajan S, Islam S, Pais P, McQueen MJ, Mondo C. Risk factors for ischaemic and intracerebral haemorrhagic stroke in 22 countries (the INTERSTROKE study): a case-control study. The Lancet. 2010 Jul 16;376(9735):112-23

### What kind of bad habits?



#### Cerebrovascular disease



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RESEARCH PAPER

### Impact of a healthy lifestyle on all-cause and cardiovascular mortality after stroke in the USA

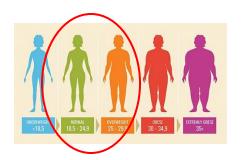
Amytis Towfighi, 1,2 Daniela Markovic, 3 Bruce Ovbiagele4

#### **ABSTRACT**

**Background** Little is known about the effects of a healthy lifestyle on mortality after stroke. This study assessed whether five healthy lifestyle factors had numbers of healthy lifestyle behaviours were associated with a greater survival benefit.

METHODS









#### Outcome of cardiovascular mortality:

a dose dependent response is seen

4-5 healthy factors vs none: HR 0.08

1-3 healthy factors vs none: HR 0.15

4-5 healthy factors vs 1-3 factors: HR 0.53

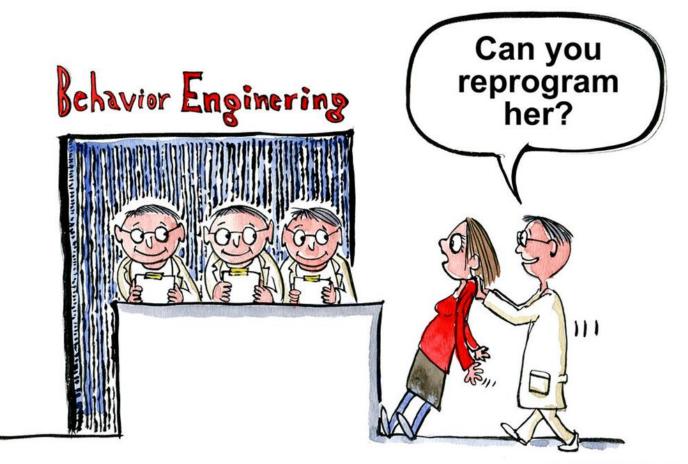
Reduction of 92%

Reduction of 85%

Reduction of 47%



HOW?

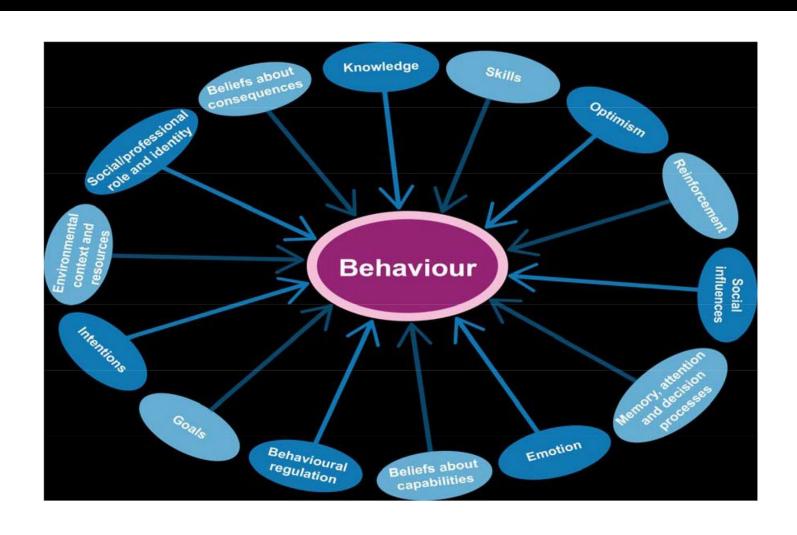


By HikingArtist.com

# MECHANISMS

V.Ryan @ 2020

#### The active ingredients that can help change behaviours



## What are the experiences and perceptions of stroke survivors adopting personalised risk reduction behaviours?













- Knowledge of risk factors & lifestyle behaviour change
- If discussed and with whom
- What made it ease / difficulty to change behaviours
- What made it easy / difficult to maintain behaviours over time





## Beliefs about capabilities

"I think the more you can do something for yourself the more confidence it gives you"

#### Social role / identity

"I was a postman for 38 years and I always had a sort of routine

## Beliefs about consequences

"I tell myself,
this will
prevent you
from ever going
through what
you went
through again"

# "it was like... a goal I could look forward to..."

Goals

#### **Emotion**

"it took a long time to accept it and I'd be really angry"

### Social influences

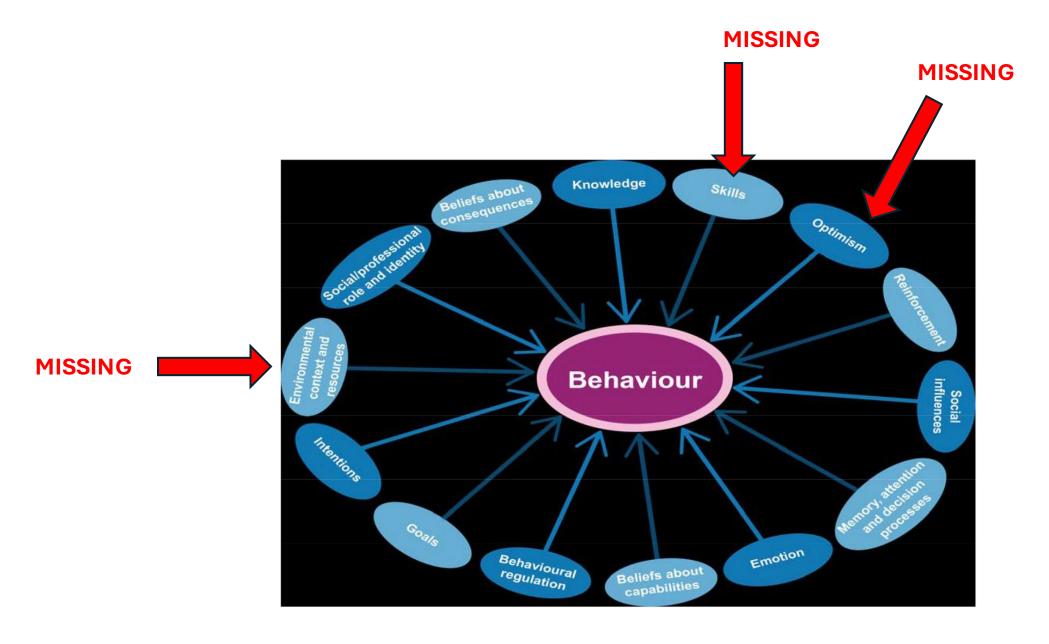
"... and the interaction with people with the same condition..."

"when I wake up in the morning, get up, and get dressed, and get out for a walk..."

Behavioural regulation

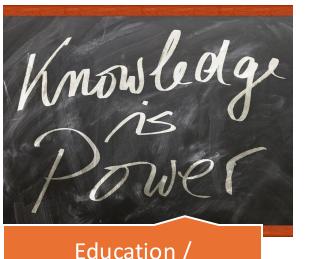


iPASTAR
Improving Pathways for Acute Stroke and Rehabilitation









Education / Behavioural counselling

Theoretical Domains Framework (TDF)



- Domains



Psychological therapies



Knowledge Skills Goals Social influences

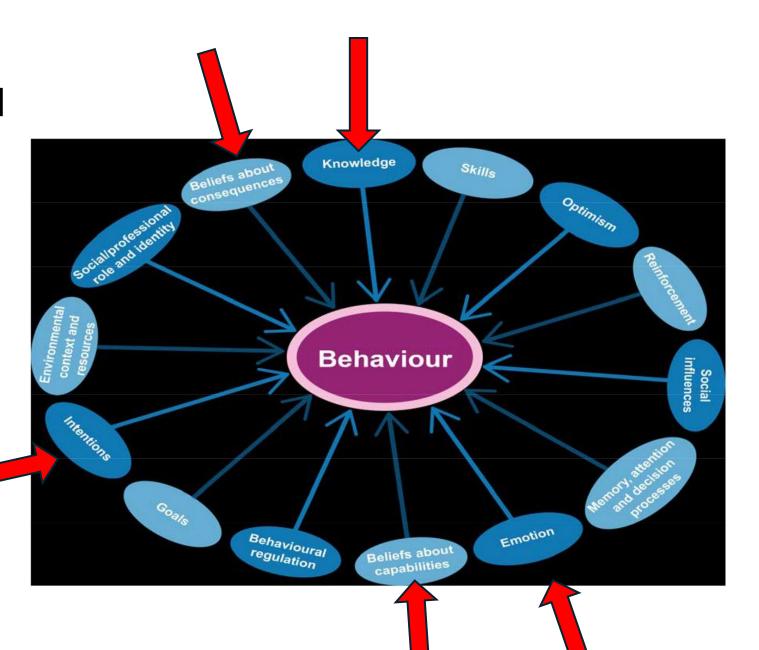
Knowledge Beliefs about consequences Goals

Beliefs about capabilities Skills Goals **Intentions** 

Skills **Emotions** 



SCIENTIFIC EVIDENCE IN STROKE?





## Understand your risks- take action-hit the bullseye

