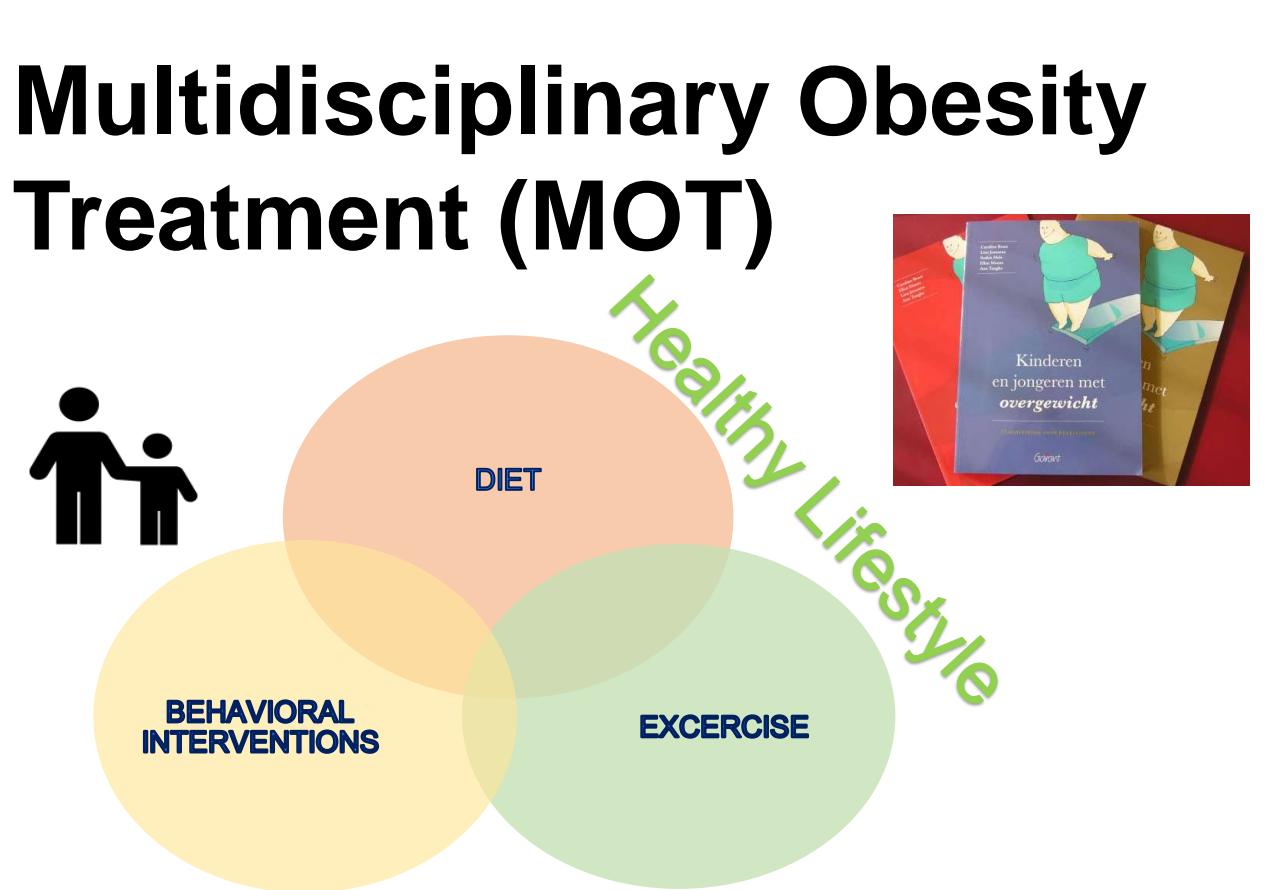
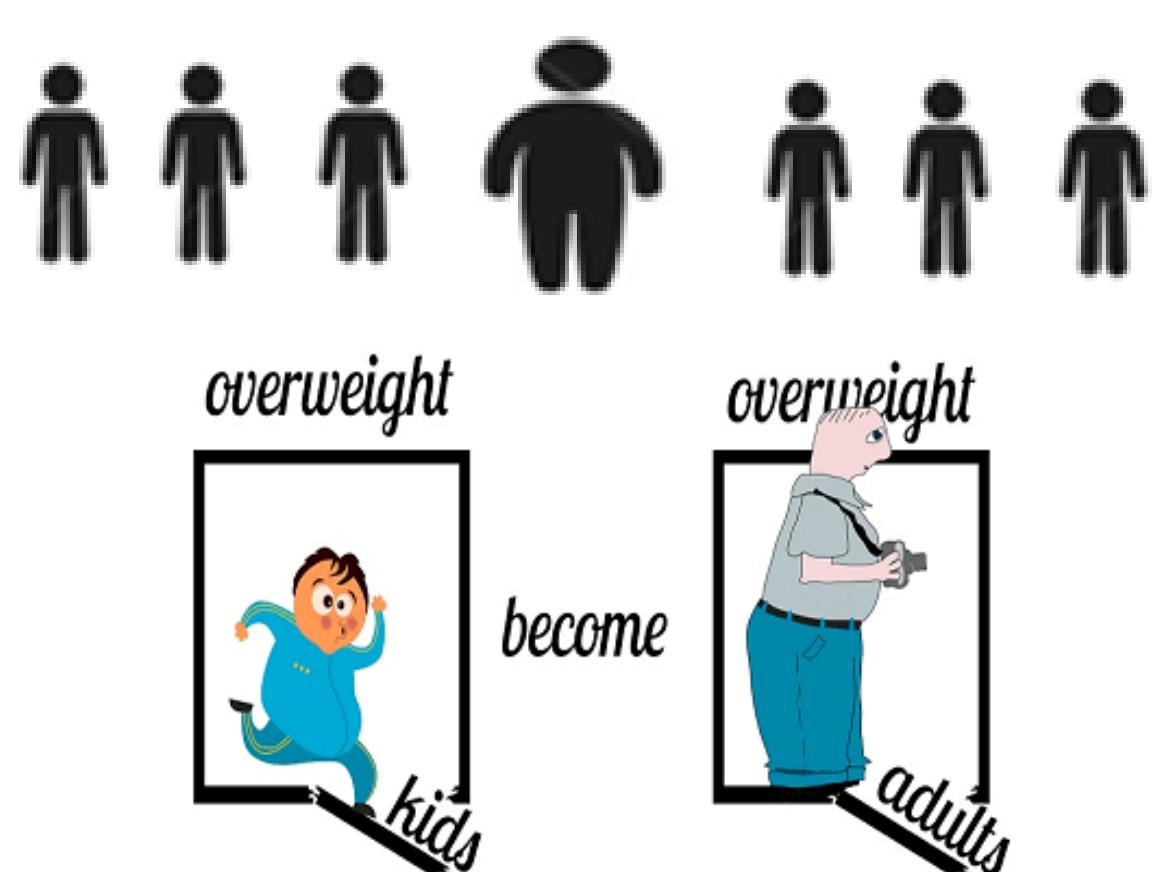
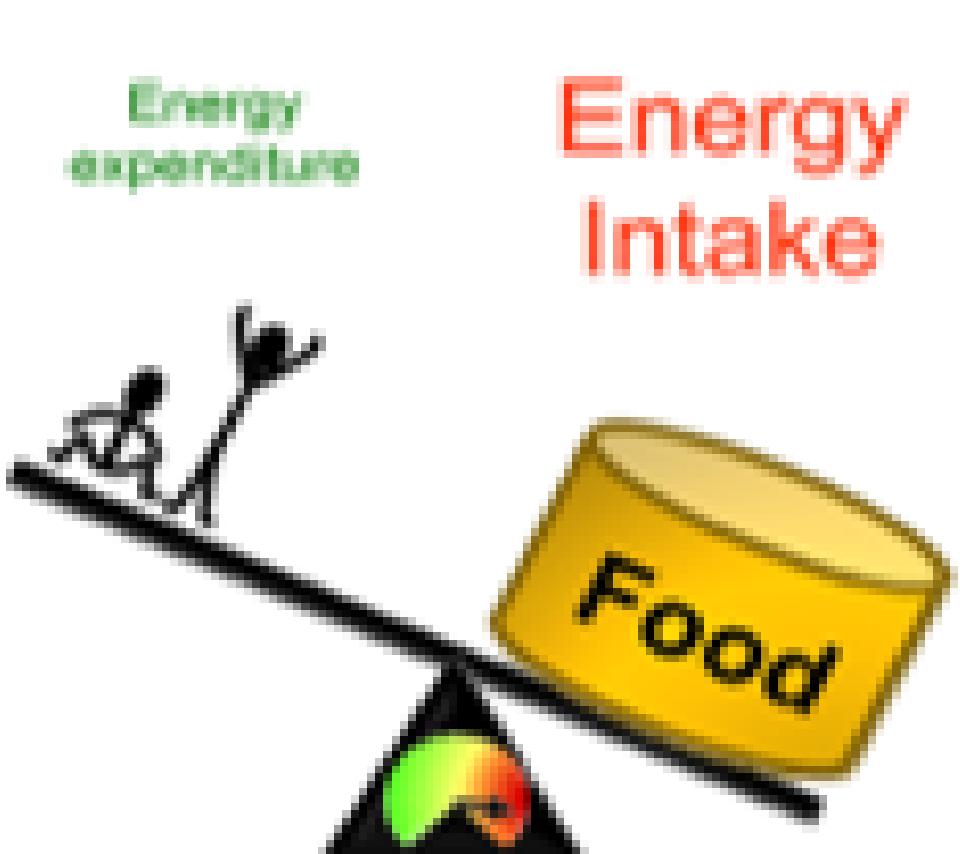


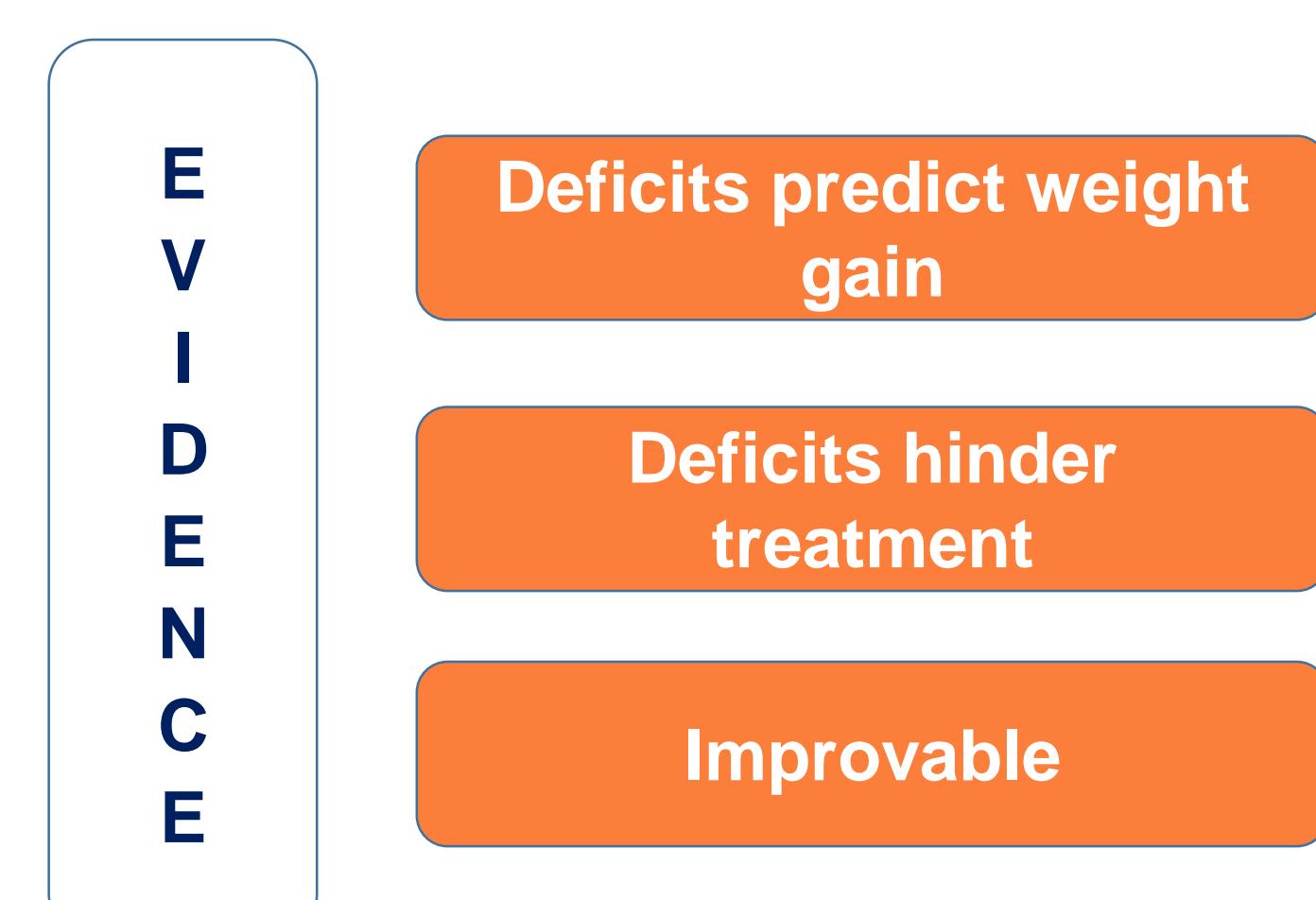
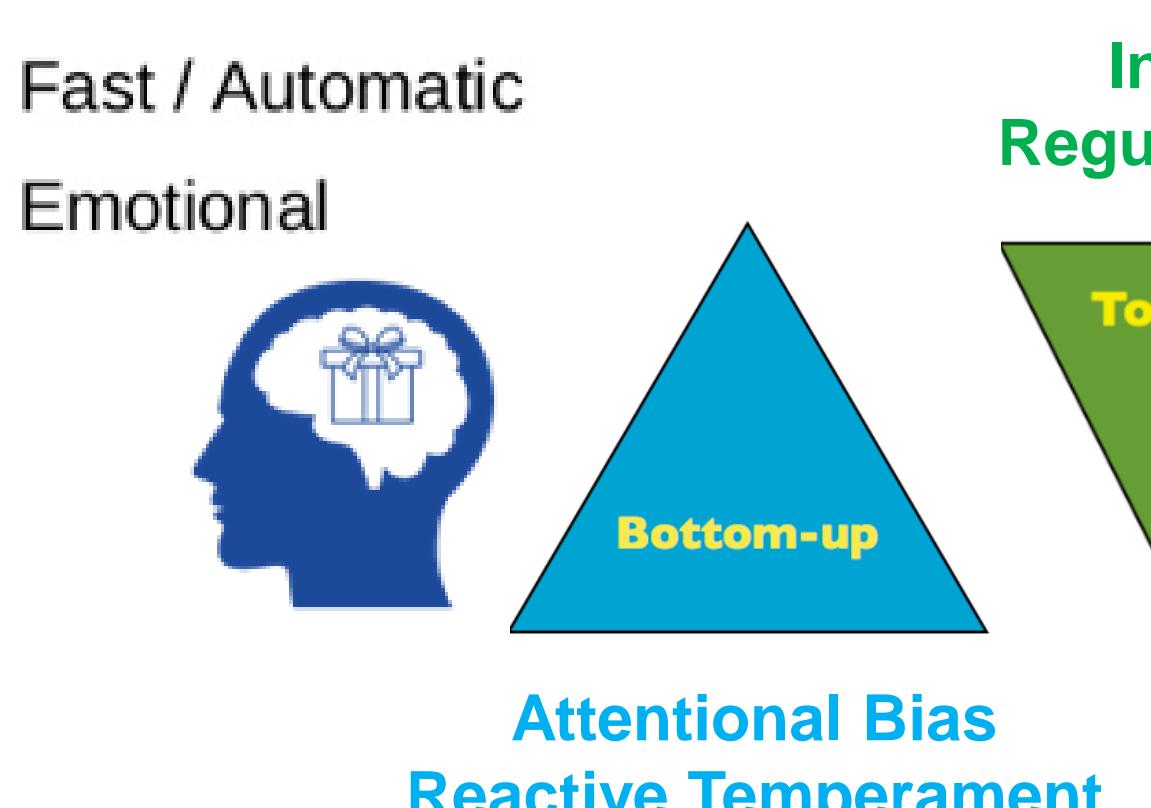
EXECUTIVE FUNCTION TRAINING: THE LONGITUDINAL EFFECTS ON WEIGHT CONTROL AND PSYCHOLOGICAL WELLBEING OF CHILDREN WITH OBESITY

Tiffany Naets, Prof. dr. Caroline Braet, dr. Leentje Vervoort
Advisory Committee: dr. Leentje Vervoort, Prof. dr. Caroline Braet, dr. Sandra Verbeken, Prof. dr. Ernst Koster, Prof. dr. Saskia Van der Oord

THE OBESITY EPIDEMIC & THE CHALLENGE OF WEIGHT CONTROL

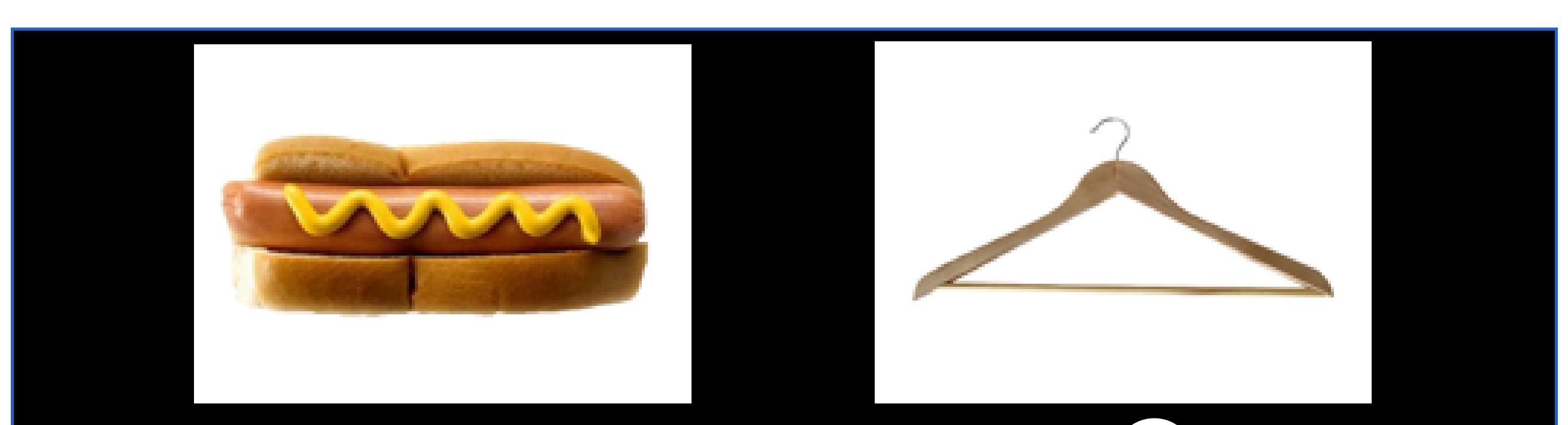


THE ROLE OF EXECUTIVE FUNCTIONS (EF) IN OBESITY



EF TRAINING ON TOP OF MOT

("Brain Fitness" BF)



DOT PROBE
(Kemps, Tigemann & Hollit, 2014)

Bottom-up



GO/NO GO
(Houben & Janssen, 2011)

Top-down

DESIGN: RCT

Inclusion: obesity, 8 – 18; searching treatment
Exclusion: other intervention research, underlying medical conditions
Randomization: 1/1 for age, gender and BMI
Inclusion: 2017-2018

Participants

Obese youth in treatment (8-18y)

Zee preventorium N = 100 AZ JAN PALFJN GENT N = 50 UZA N = 50

N = 200

Multicenter

2 conditions

Longitudinal

N = 100 experimental training N = 100 active control shamtraining

INTENSIVE (6w) BOOSTER (8w)

MOT (+/- 10m)

STUDY

Intake Start End End BF & 6M FU
BF during MOT Start Booster BF

5 TIME POINTS

T0

T1

T2

T3

T4

RESEARCH PREDICTIONS & INSTRUMENTS IN COMPARING THE GROUPS OVER TIME

IN THE EXPERIMENTAL GROUP:

- 1) **MORE WEIGHT LOSS & MAINTENANCE**
BMI SDS
BMI IOTF
- 2) **HEALTHIER EATING BEHAVIOR**
External & Emotional Eating (DEBQ)
Binge Eating (Ch-EDE-Q)
- 3) **BETTER EXECUTIVE FUNCTIONING**
Dot Probe & Go/No Go
BRIEF & ECS
- 4) **MORE PSYCHOLOGICAL WELLBEING**
Self-Worth (CBSK/A)
Internalizing symptoms (ASEBA, CDI)

Longitudinal Multilevel Analysis

CONTROLLING FOR
IQ (SPM)
Age & Gender
ADHD symptoms (ASEBA)