

WHO AM 1? **Justin Timmer** 23 years Human movement science Fitness instructor QS-Meetup organizer Groningen **INTERESTS** 

Sleep

Movement Aging

Brains

Psychology

Social experiments



# Exercise and contracting muscles

# You can do what I did

# WHAT I WANT YOU TO DO

Make a fist and contract your right arm muscle as long as the next couple slides

# Ready?

### CONTRACT!

You can easily listen to what I'm saying

# CONTRACT!

Can you add your Left arm as well?

Can you add your abdominals also?

What about your legs?

#### THAT'S WHAT I DID FOR 4 WEEKS

- Right leg
- Abdominals
- Right chest
- Right arm



# WHEN DID I DO IT?

At least 4 times a day

at a bar

Shower

Brushing teeth

Watching tv

During college

While typing essay's

Etc. etc.

# HOW DID I DO IT?

As long as possible

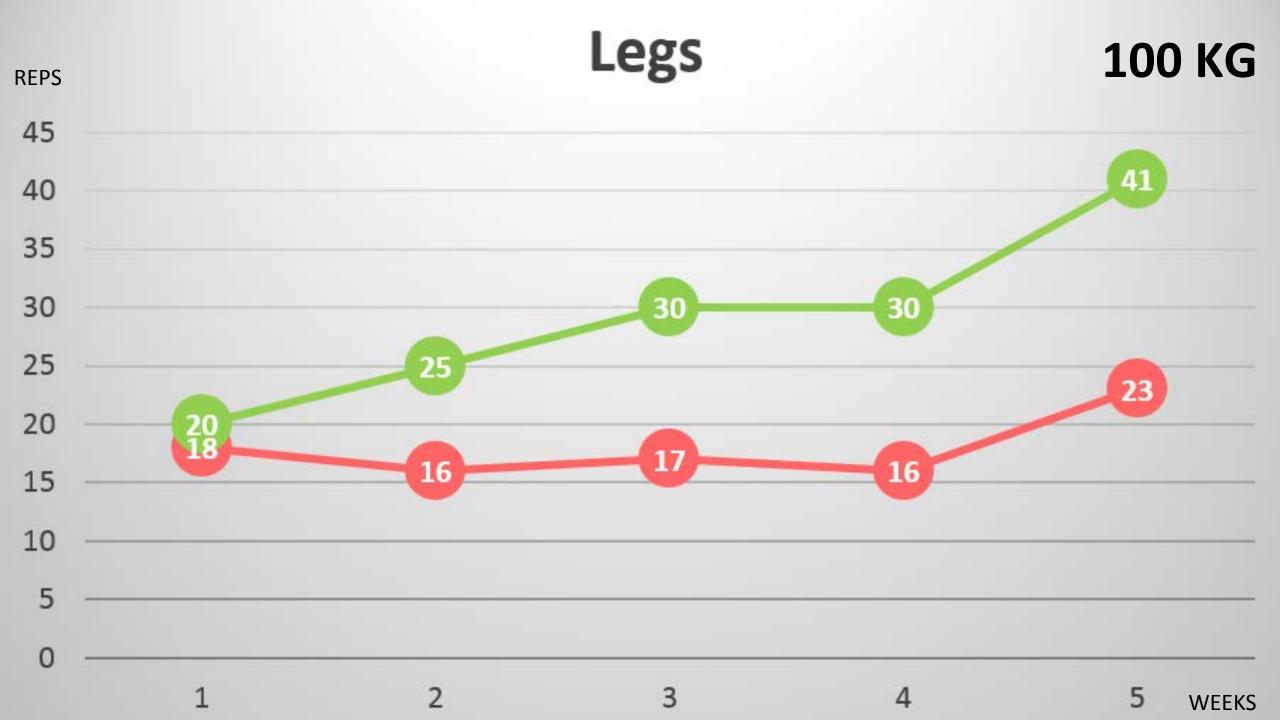
All muscles separately

# KEEPING UP WITH THE PROGRESS

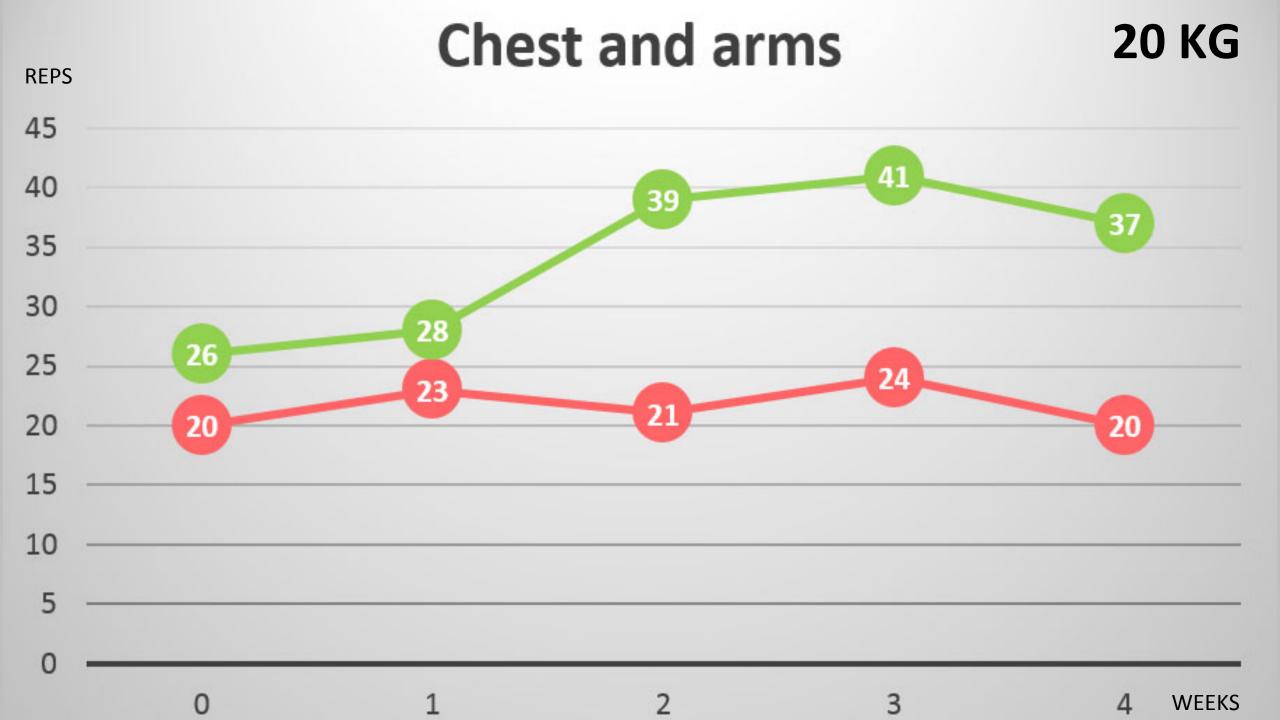
# **Every week Progress**

- Muscle concentric strength
- Body variables





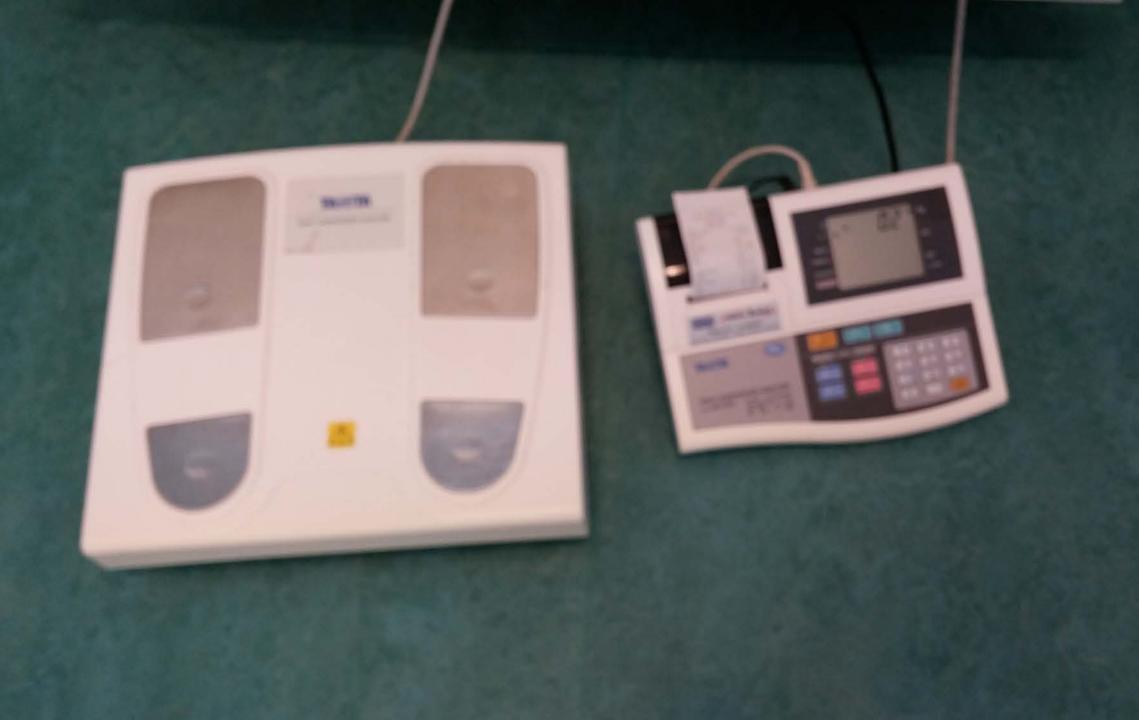




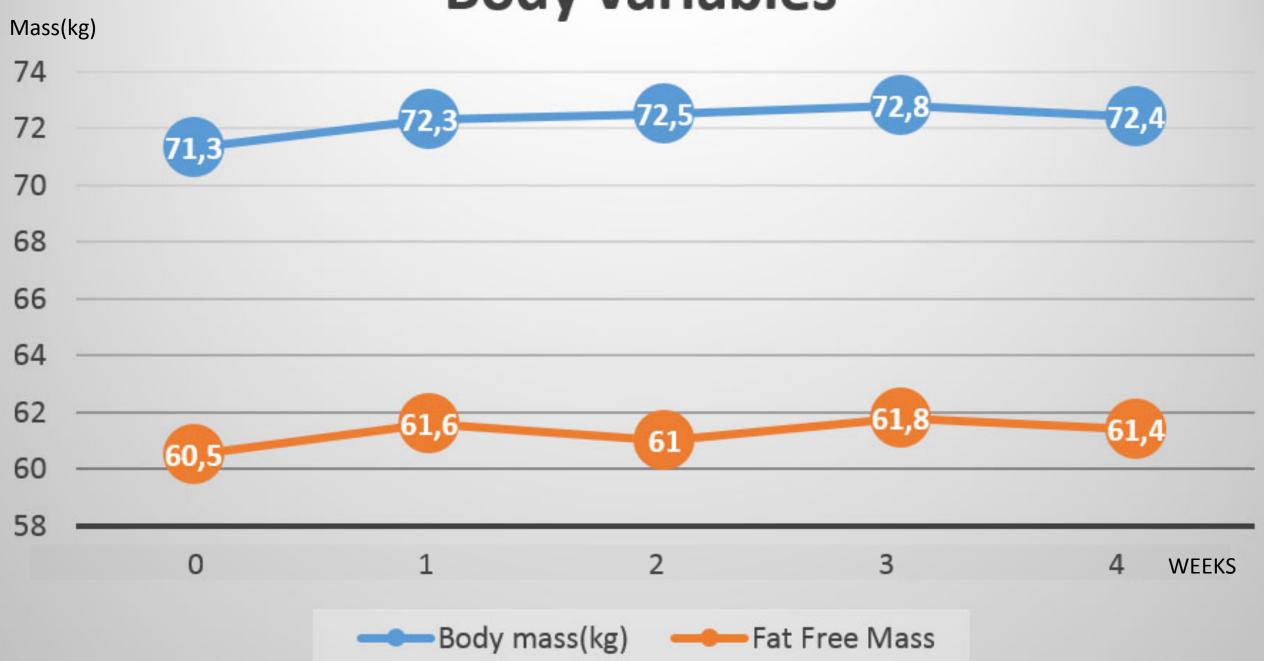


# **Abdominals**





# **Body variables**







# WHAT DID I LEARN?

• This trainingtype is very effective

• It's easy to do

### WHAT DID I LEARN?

Easily train complete muscles groups

Train small muscles

Train complete extremities

# WHAT DOWNSIDES DID I LEARN?

# Rising fluids when contracting abdominals?

# WHAT DOWNSIDES DID I LEARN?

• Unexplainable little muscle pains in legs

#### BUT

Shortening muscles can be dangerous

Overtrain muscles

• More research necessary!

# THANKS FOR LISTENING!

QUESTIONS?

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