



Piloting at Smart Gym

Measurement
Week
September 2018 N = 200

Training
3 Months
N = 175

Measurement Week December 2018 N = 100 / 80



2. Heart Rate Variability

 Autonomic nervous System

- Stress level



3. Aortic Stiffness

- Pulse wave velocity
- Blood pressure

1. Body Composition

- Muscle mass
- Fat mass
- Visceral fat





- Distance
- Aerobic fitness
- Vo2max



- Hand strenght
- Functional capacity





5. Leg Press

- Lower body strength
- Kg/kg

Hyviö Questionnaires

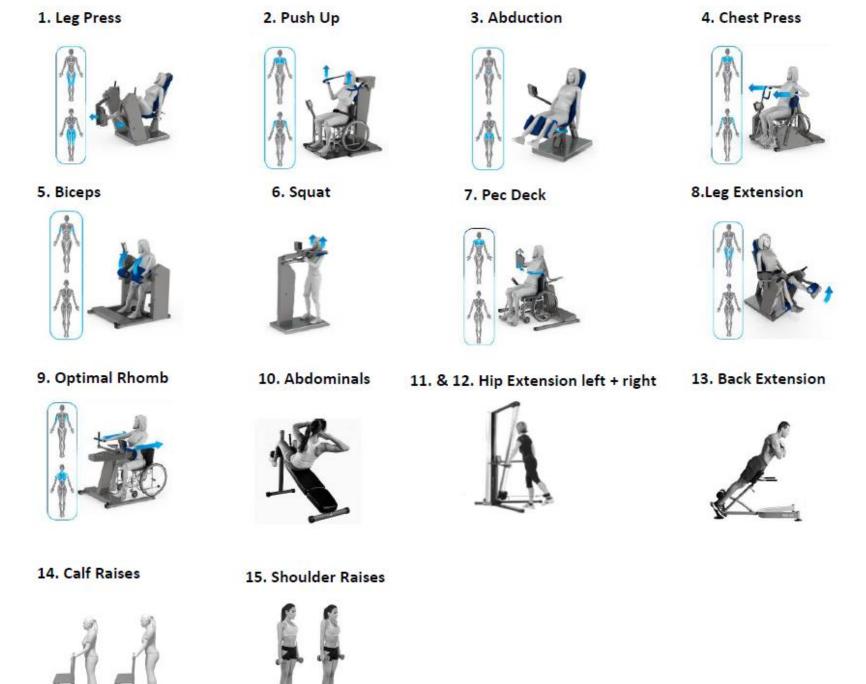
- Wellbeing
- Motivation
- Physical activity

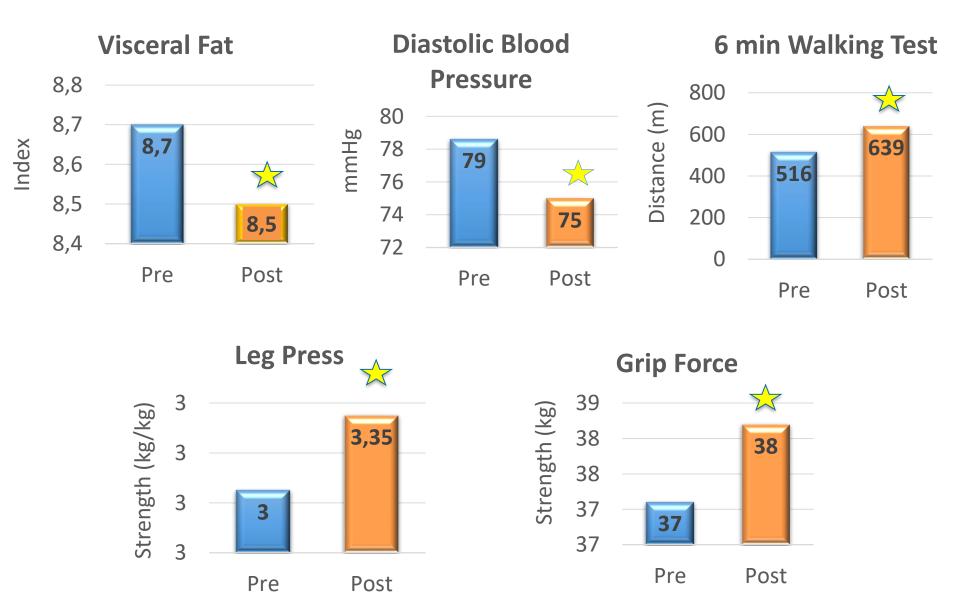


Training at Smart Gym

- Endurance strength training protocol
 - Familiriazation session
 - Personal training card → computerizd exercise machines
 - Maximal load session → Individual training program
 - Endurance strength sessions
 - 10-15 min warm-up
 - 15 exercises / no breaks between
 - 20 repetitions
 - 50 % of maximal load / progressive load increase 2kg/4kg
 - 3 sets / 2 min break between
 - Increase force, improve posture and help with weight control







Results after three months training (n = 65)



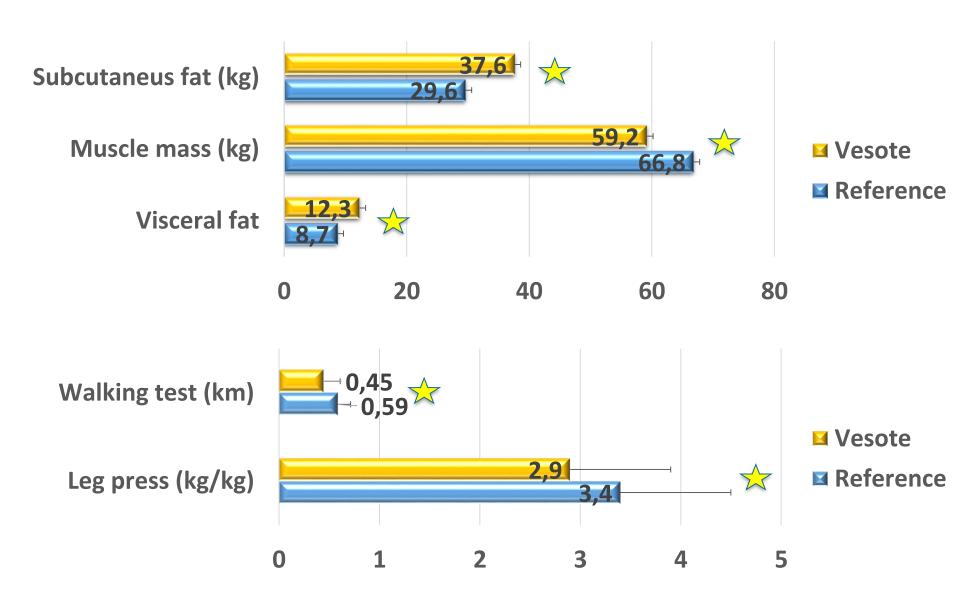
Vesote group

- Guided from the local health care system
 - Secondary prevention
 - Prevent the disease from getting worse by eliminating or reducing the risk factor
- Lack of exercise and increased risk of diabetes
- Vesote is one of the government's leading programs
 - South Savo Social and Health Care Authority, Essote
 - Effective and target-based lifestyle counselling throughout the South Savo region

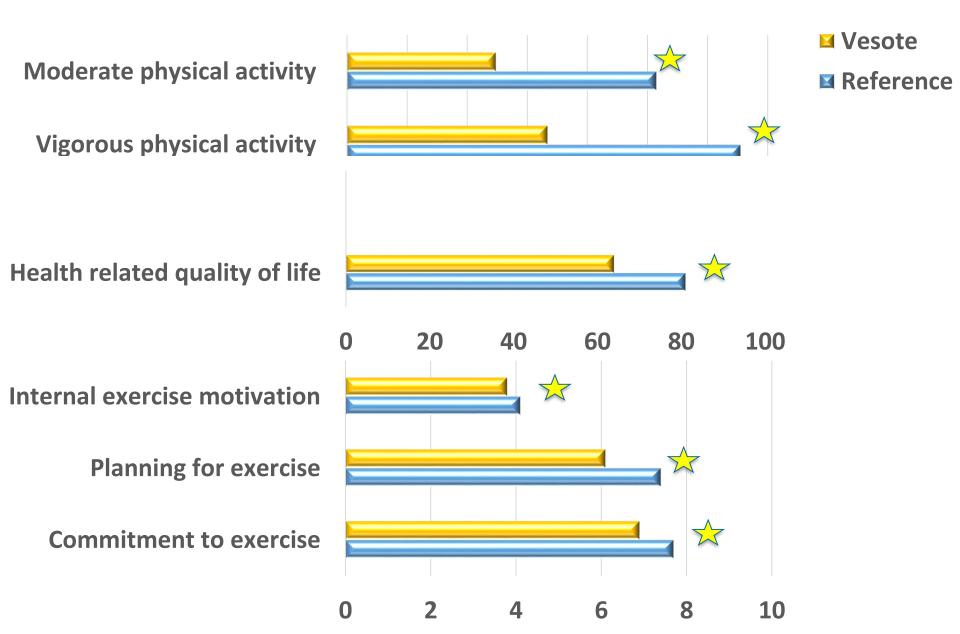


Baseline differences

Vesote = 35, Reference = 142



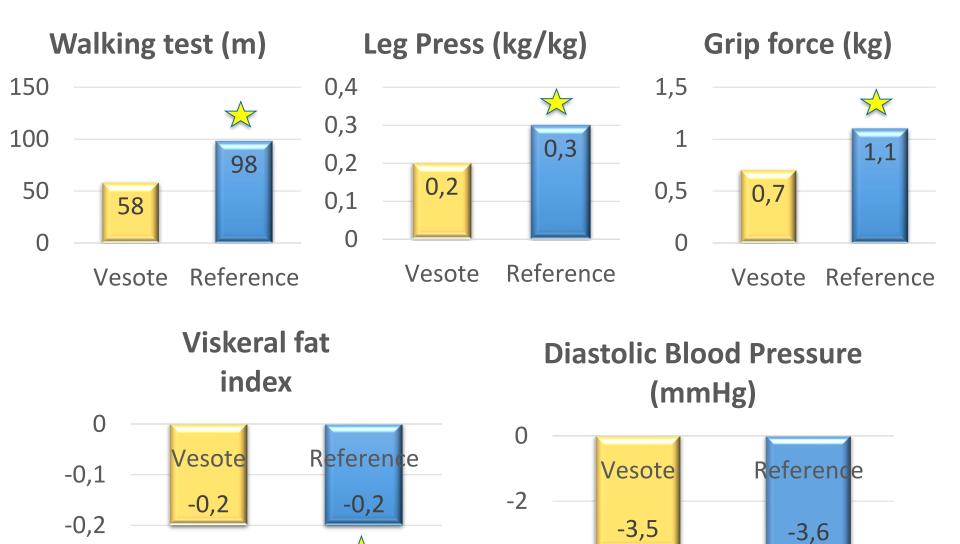
Hyviö questionnaire



Vesote Lifestyle counselling

- Councelor and client define the starting situation
 - Individual plan for the lifestyle changes
- Increase the amount and quality of exercise, drug-free treatment of sleep, and better nutrition
- Exercise service palette
 - Municipality specific
 - Some are free
 - Swimming pool and gym for free in Mikkeli
- Second appoinment after few weeks
 - Ensure the introduction of new instructions and advice
- Duration 0,5 -1 year
 - Minumum of 3 appoitments
- Active Life Lab measured clients at the starting point and again after 3 months counselling



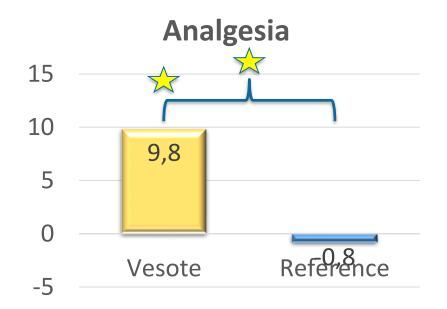


Changes at Follow-up measurement

-0,3

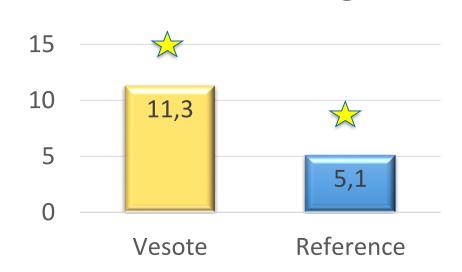
-4

Vesote = 16, Reference = 65





Changes in Hyviö Questionnaire



Social functioning

Vesote future

- Vesote program finished in the end of 2018
- In the South Savo region lifestyle councelling continues in cooperaton with Essote and Active Life Lab
 - Spring 2019
 - 60 new baseline effectiveness measurements
 - 30 booked measurements
 - More to come
 - Fall 2019 will be the follow-up effectiveness measurement
- Control group
 - What happens if there is no lifestyle councelling



Conclusion

- Postive feedback
 - Doing the measurement is easy
 - Immediate feedback of the results motivates
- Data collection benefits all, lifestyle counseling clients, lifestyle counselors and developers
- A close partnership between health care and research and development enables development work that can
 - take into account local specificities
 - react quickly to weaknesses
 - ultimately improve health and well-being for more people

