

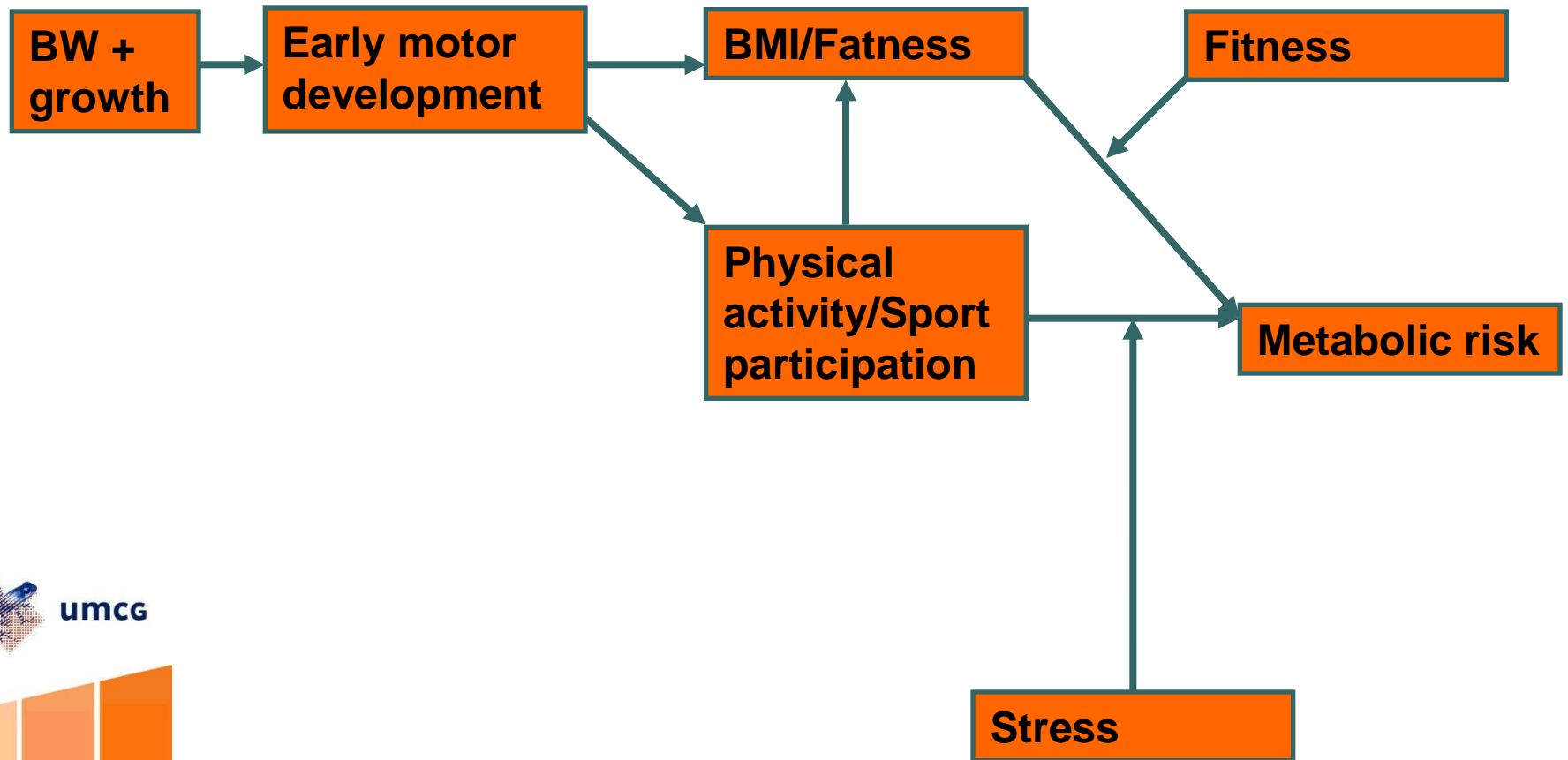
# Overweight and cardiometabolic risk from infancy to adolescence: Effect of early motor development, physical activity and fitness

*Silvia Brouwer*

Lectoraatsoverleg 20 juni 2013  
Instituut voor Sportstudies  
Hanze University of Applied Sciences



# Overweight and cardiometabolic risk from infancy to adolescence: Effect of early motor development, physical activity and fitness



	<b>Title</b>	<b>Data</b>	<b>Status</b>
<b>Chapter 1</b>	General Introduction		
<b>Chapter 2</b>	Influences on achieving motor milestones: A twin-Singleton study	Dutch Twin Registry	<b>Published</b> in Twin Research and human genetics (2006)
<b>Chapter 3</b>	Influence of early motor development on childhood overweight	Dutch Twin Registry	<b>In progress</b> Submission in Journal of Pediatrics (July, 2013)
<b>Chapter 4</b>	Objectively measured physical activity and overweight in 3-years old children	Gecko	- Submission in ?? (October, 2013)
<b>Chapter 5</b>	The role of fitness in the association between fatness and cardiometabolic risk from childhood to adolescence	TRAILS	<b>Published</b> in Pediatric Diabetes (2013)
<b>Chapter 6</b>	Sport participation and cardiometabolic risk: Is more always better?	TRAILS	<b>Submitted</b>
<b>Chapter 7</b>	General Discussion		

# Motor milestones



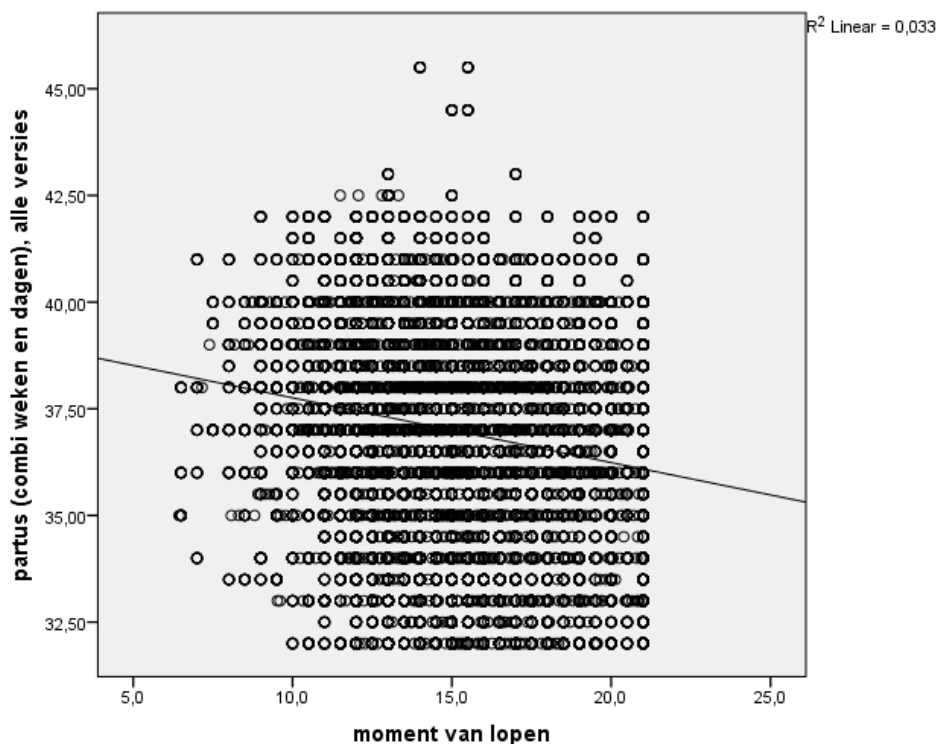
umcg



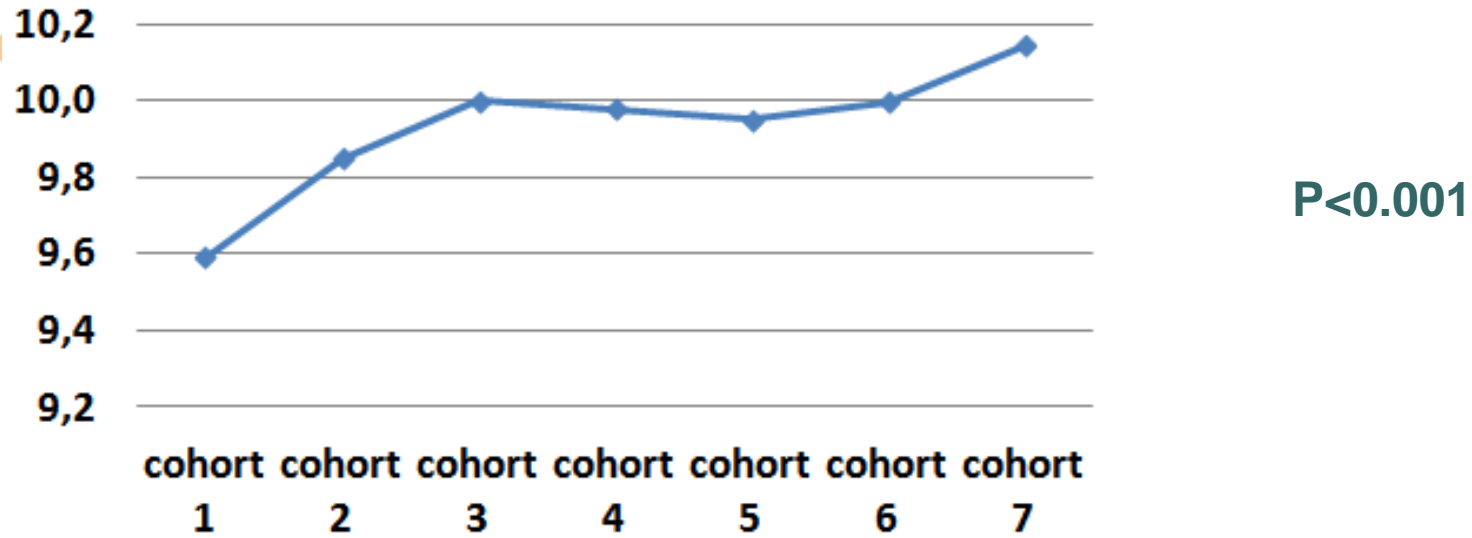
# Correlaties zwangerschapsduur en MM

R <sup>2</sup>	BW	RoI	Zit	Kruip	Staan	loop	woord
Partus	,661	-.182	-.176	-.146	-.168	-.182	-.066

P<0.001

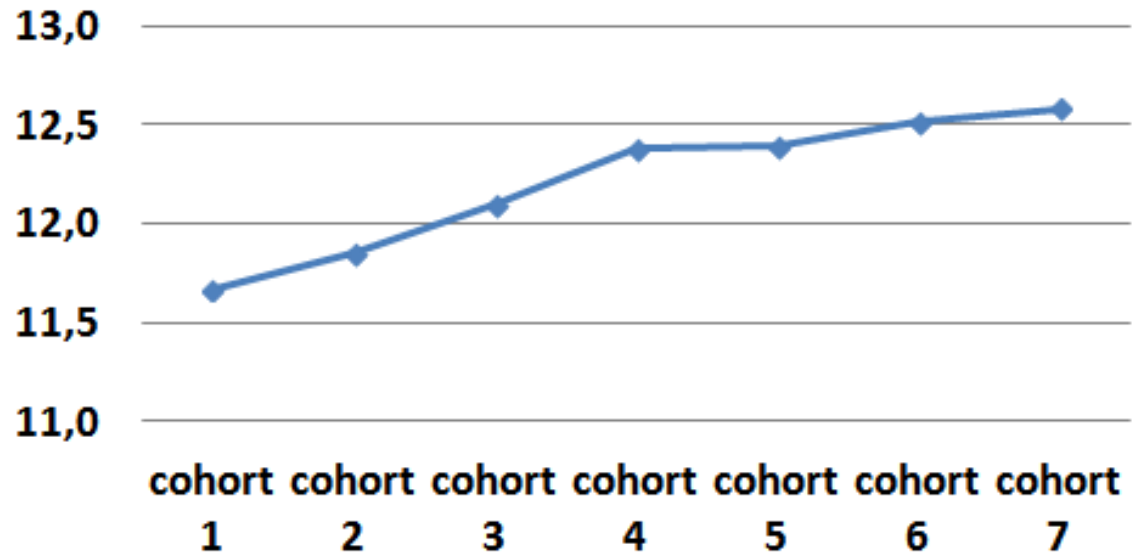


## Crawl per Cohort

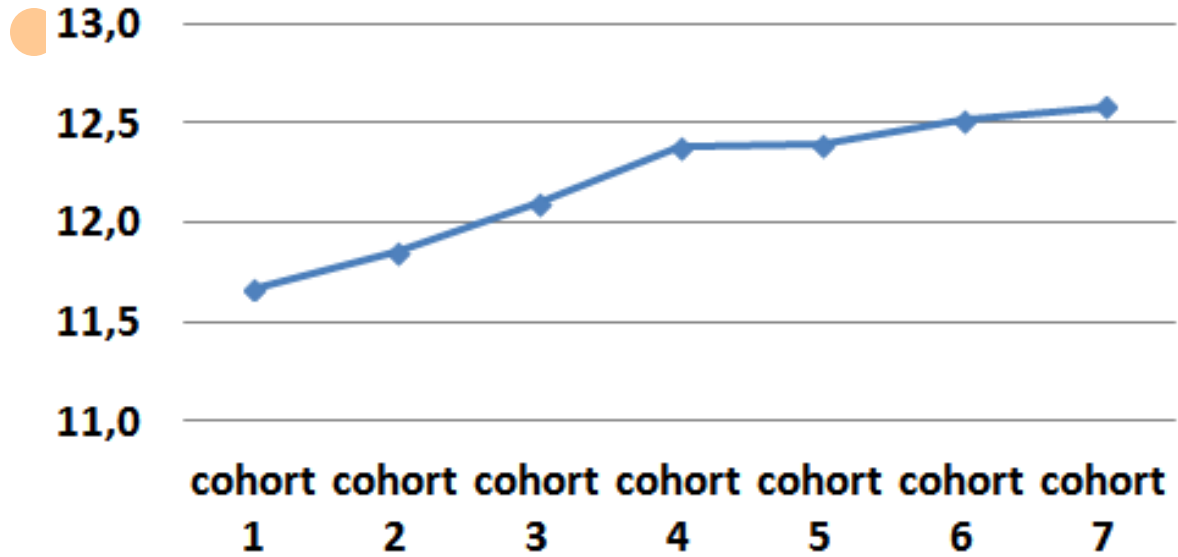


## Stand per Cohort

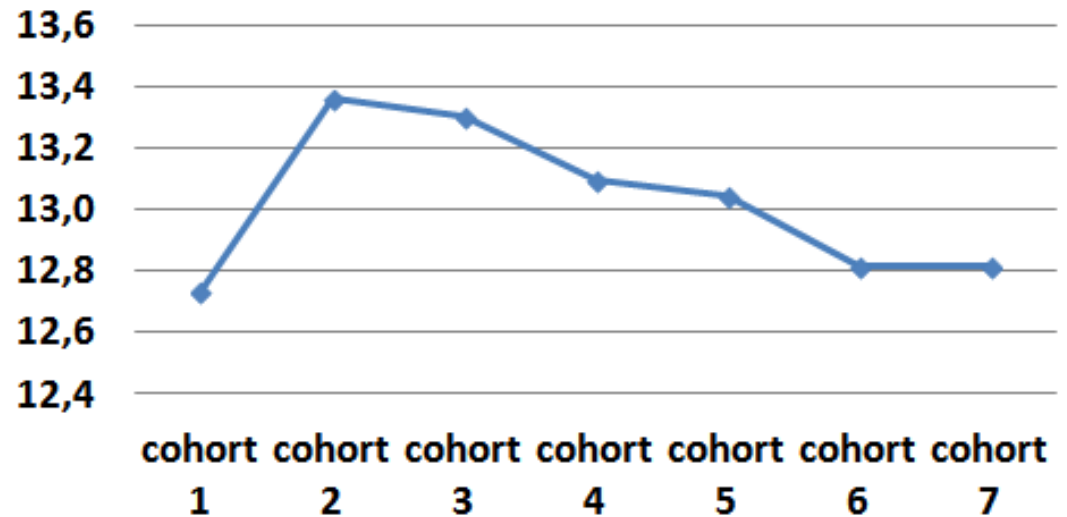
$P < 0.001$



## Walk per Cohort



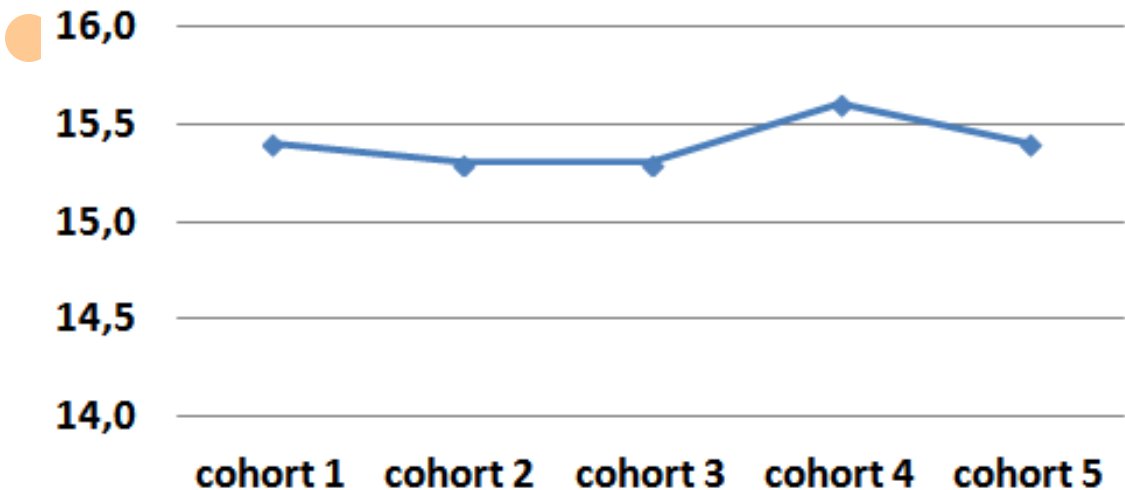
## Word per Cohort



$P < 0.001$



### BMI age 7 per Cohort



N=6267  
P=0.031

### BMI age 10 per Cohort



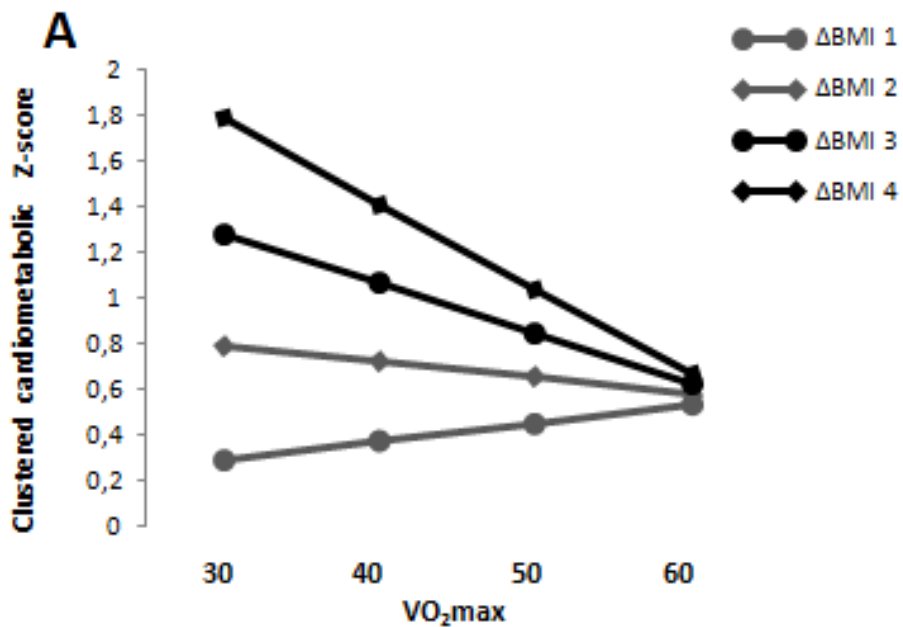
N=5131  
P=0.461



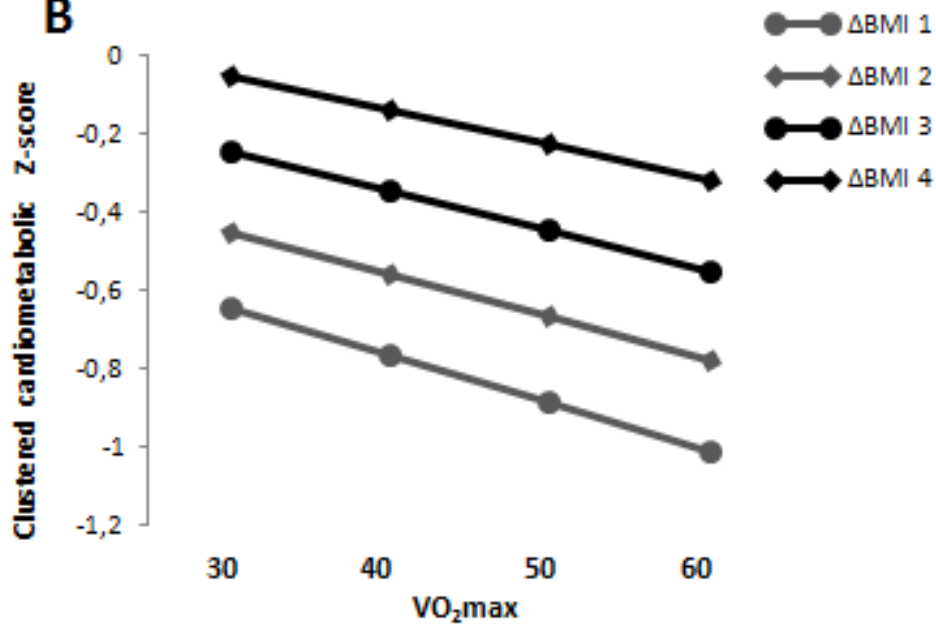


jongens

I



**B**

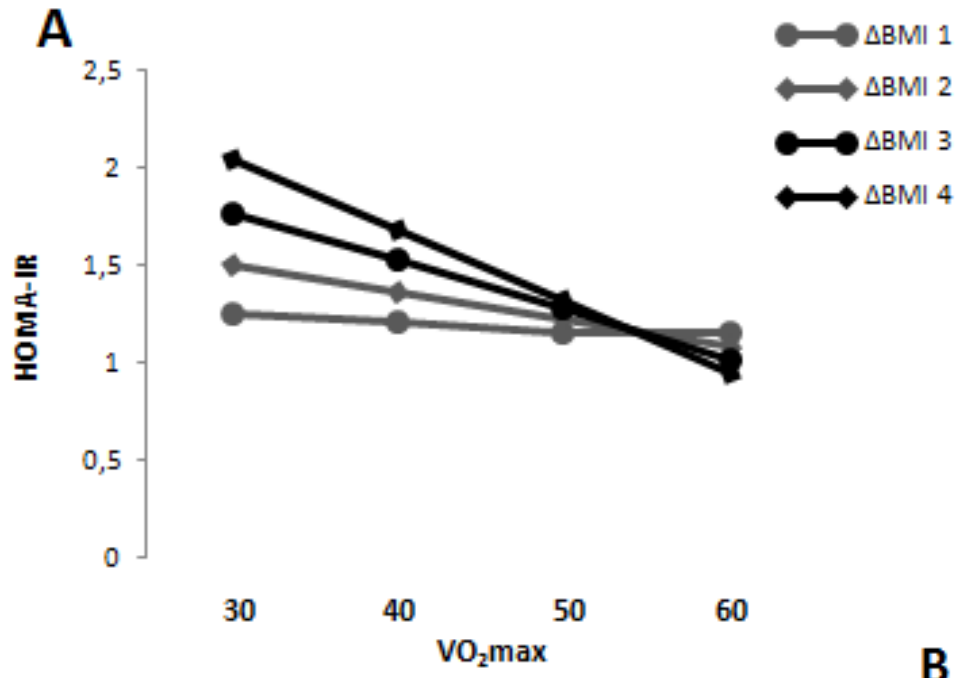


meisjes

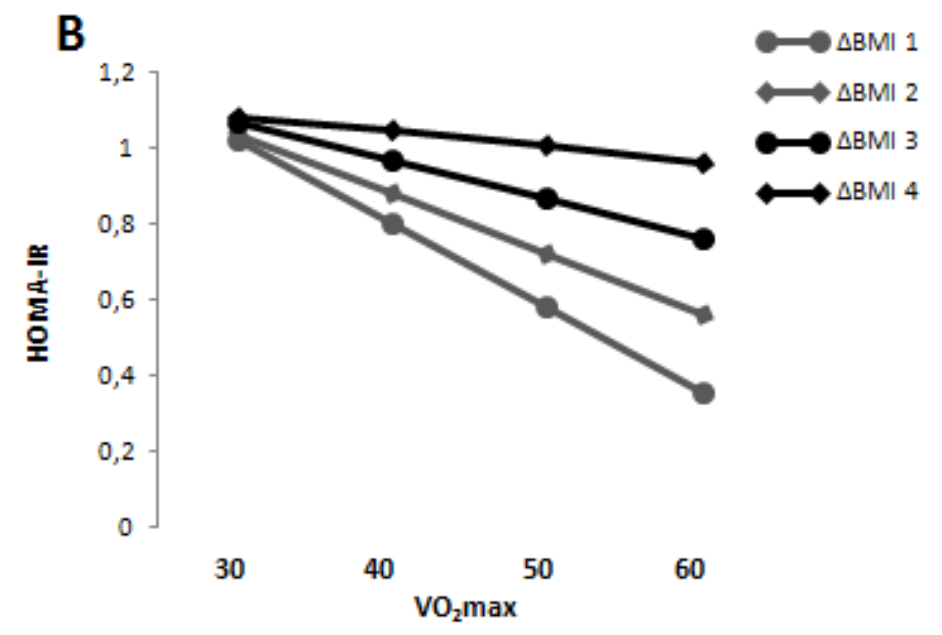


umcg

Epidemiology



jongens



meisjes



Fig 1a Sum of skinfolds for competition level

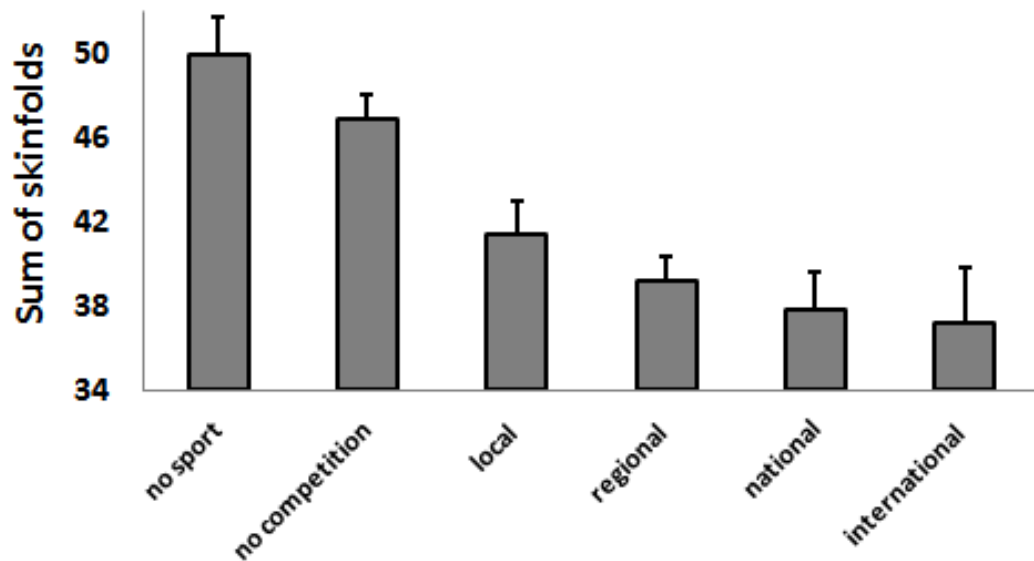


Fig 1b VO<sub>2</sub>max for competition level

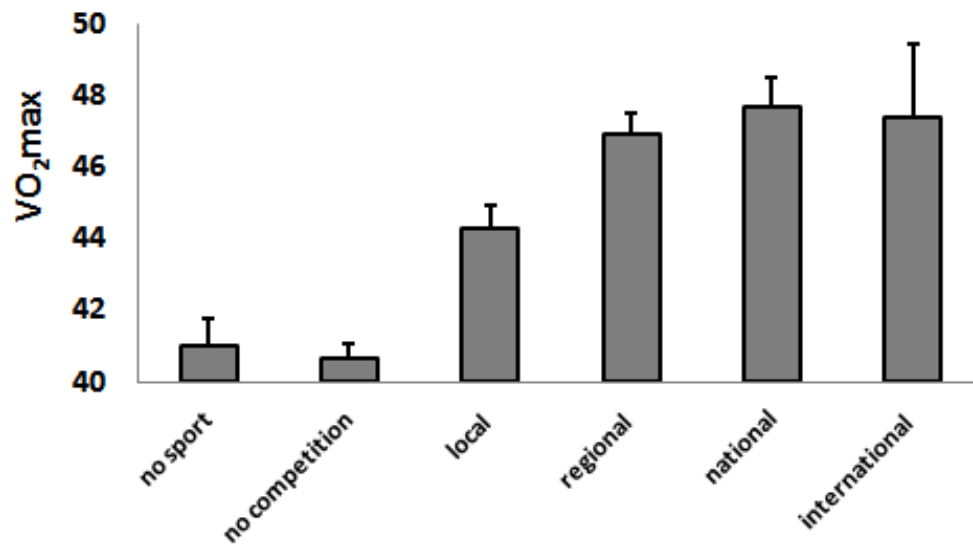


Fig 1c Insulin for competition level

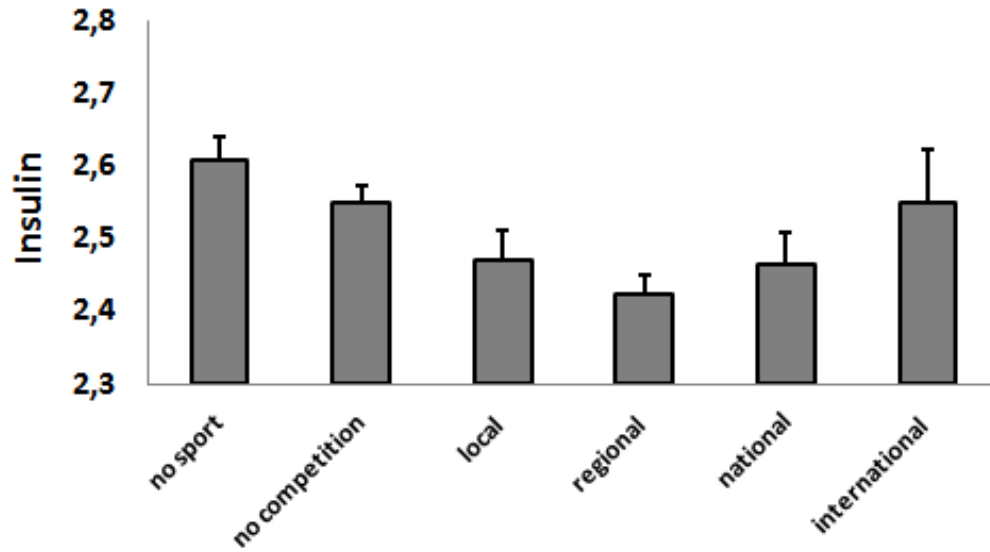
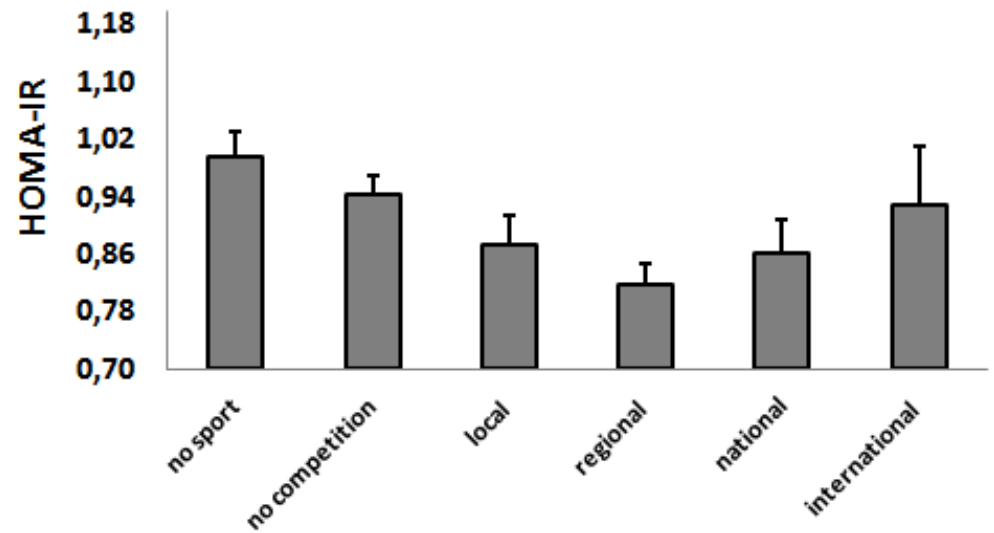


Fig 1d HOMA-IR for competition level





# Questions??

