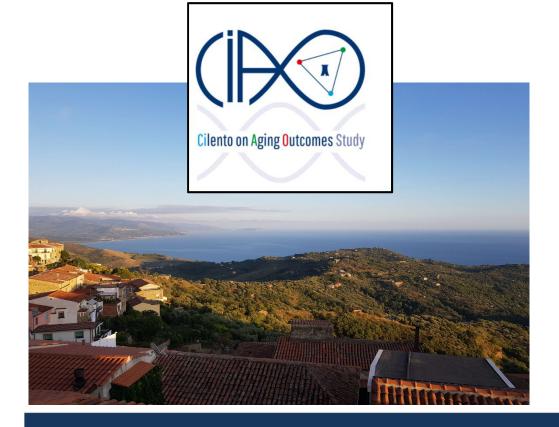
## CARDIOVASCULAR DISEASE AND CANCER IN CILENTO AND MALMÖ

Olle Melander, MD, PhD, Professor of Internal Medicine, Lund University, Malmö, Sweden



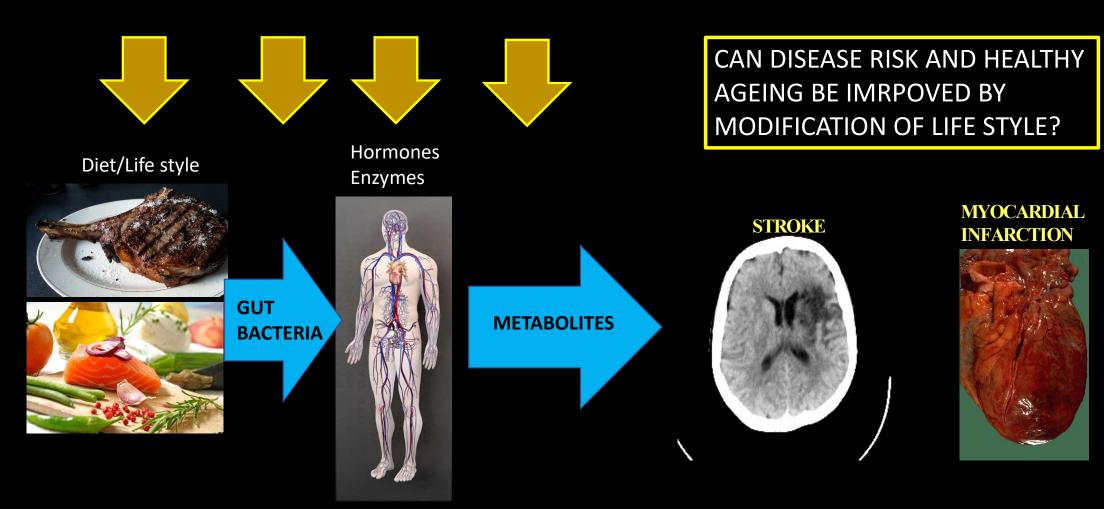


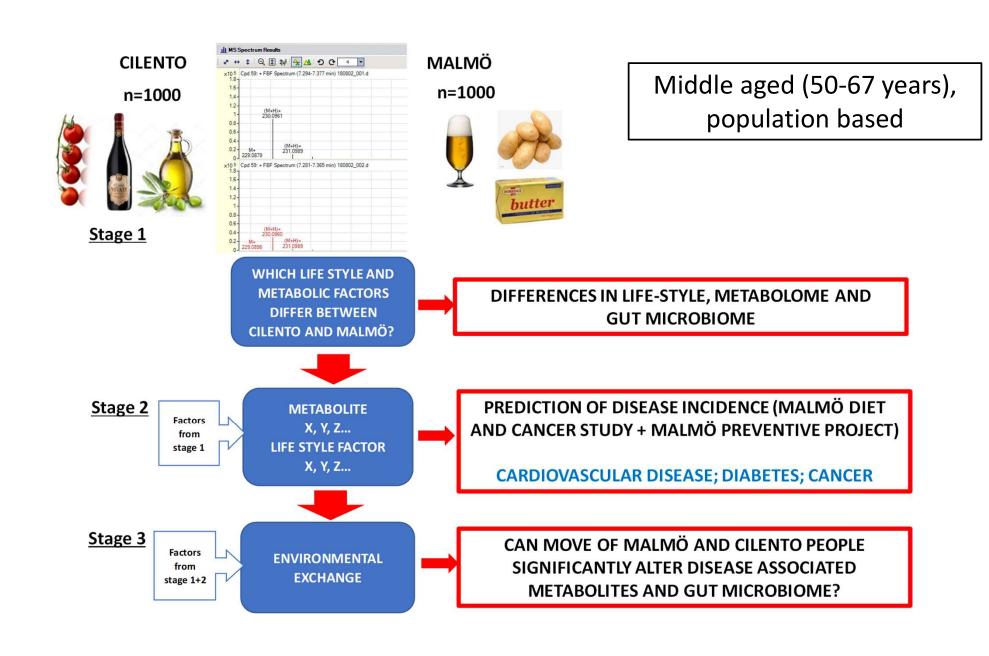
**GREAT ITALY VIII INTERNATIONAL MEETING** 

SEPTEMBER 26<sup>TH</sup> –OCTOBER 4<sup>TH</sup> 2019 CILENTO REGION –SALERNO (Italy)

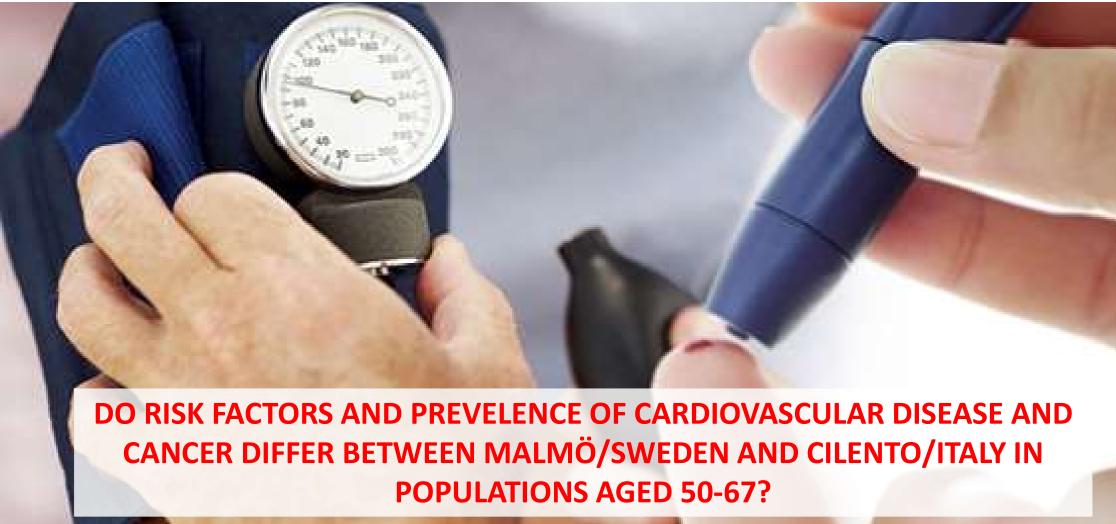


### DIFFERENCES BETWEEN CILENTO AND MALMÖ??





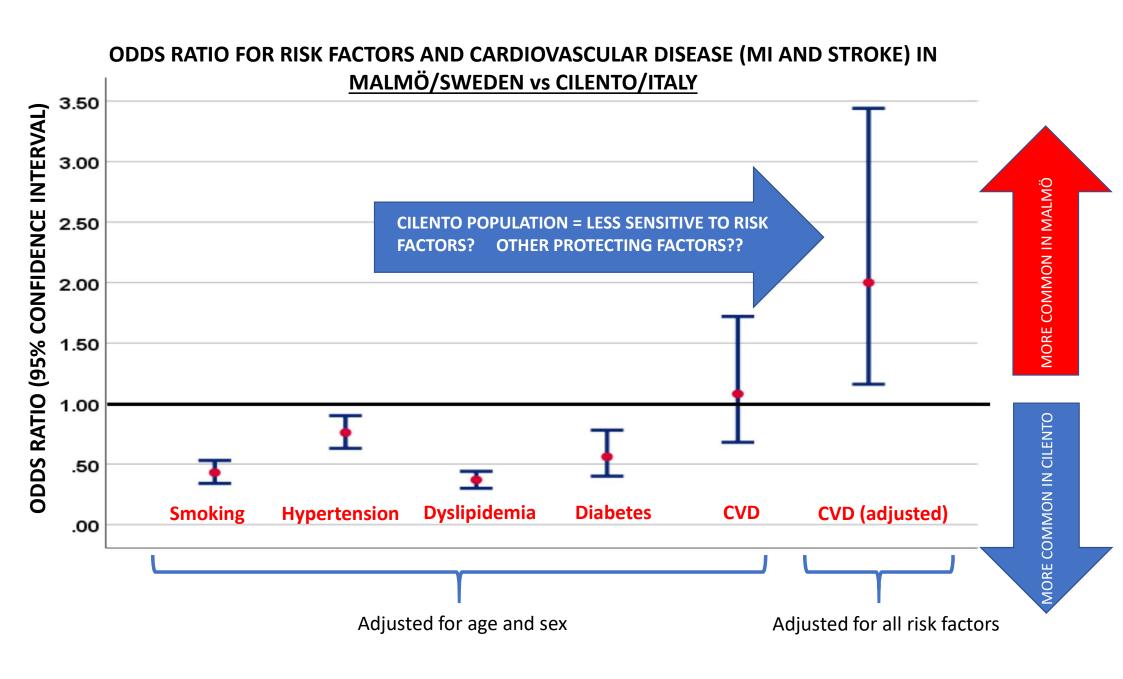




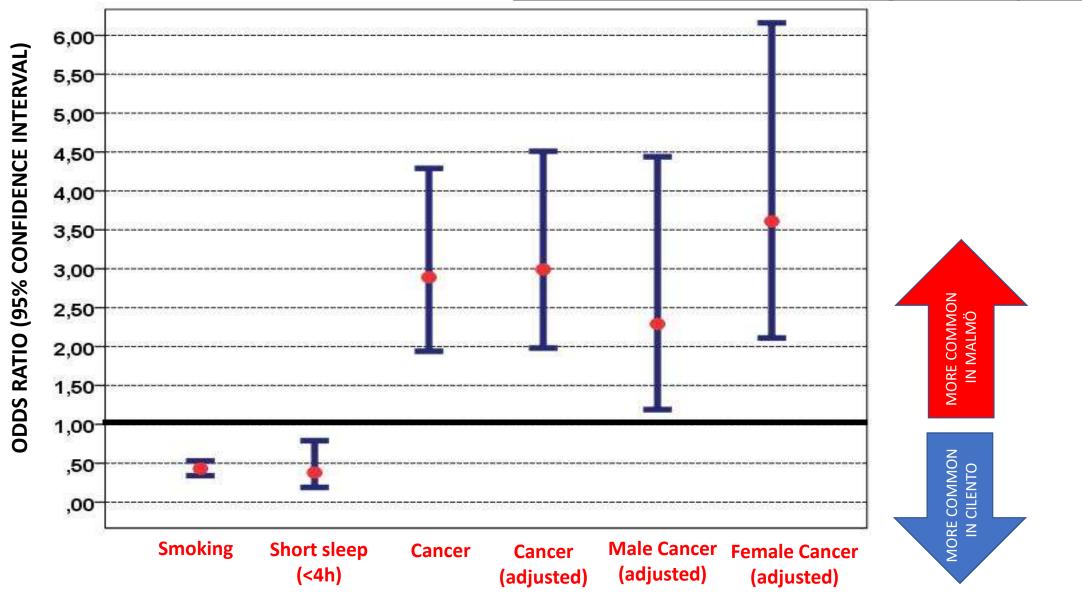
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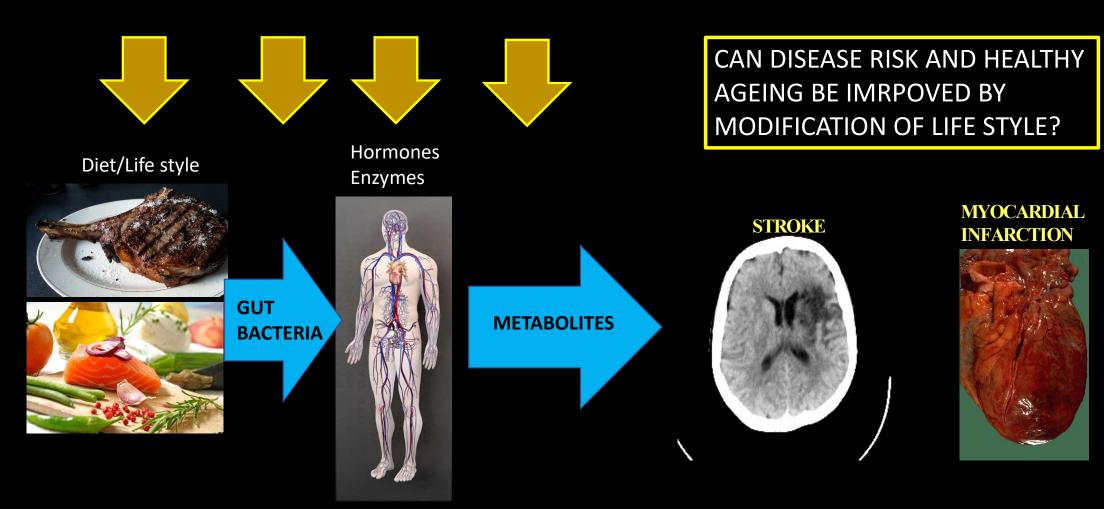




### ODDS RATIO FOR RISK FACTORS AND CANCER IN MALMÖ/SWEDEN vs CILENTO/ITALY (age and sex adjusted)



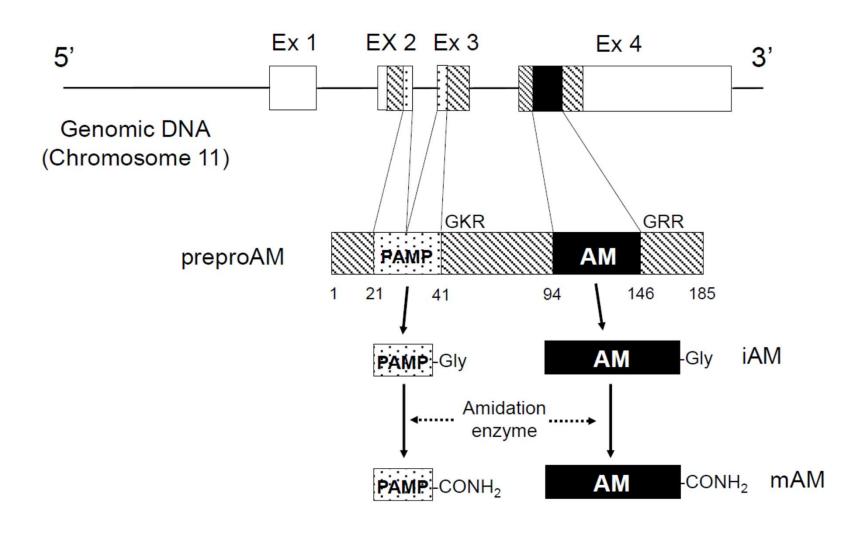
### DIFFERENCES BETWEEN CILENTO AND MALMÖ??



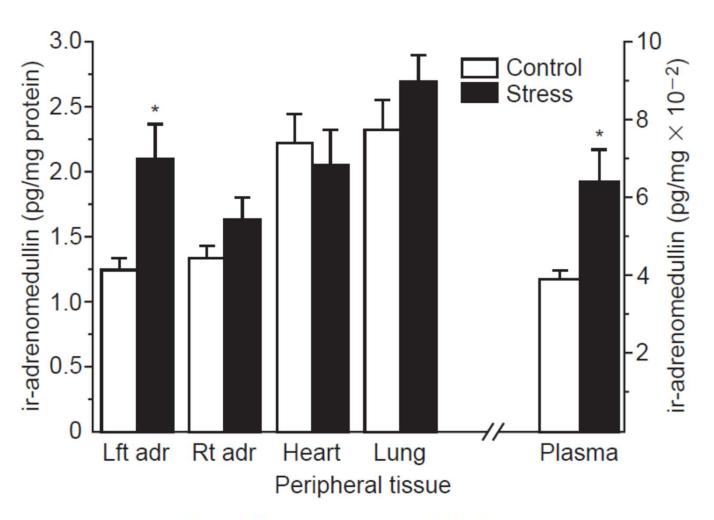




# ADRENOMEDULLIN- WIDELY EXPRESSED AND SECRETED WITH ENDOTHELIUM AS A MAIN SOURCE OF CIRCULATING LEVELS



### STRESS CAUSES INCREASED PRODUCTION AND SECRETION OF ADRENOMEDULLIN



NeuroReport 10, 2829-2833 (1999)

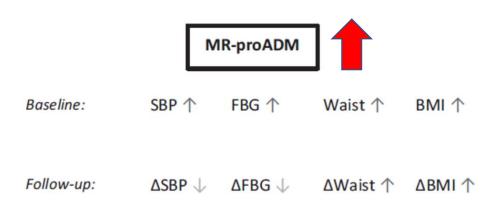
# Novel and Conventional Biomarkers for Prediction of Incident Cardiovascular Events in the Community

		HR	
	Biomarker	Multivariable-Adjusted HR (95% CI) <sup>b</sup>	<i>P</i> Value
First cardiovascular events CRP		1.19 (1.07-1.32)	.002
	Cystatin C	1.13 (1.03-1.23)	.006
	MR-proADM	1.12 (1.01-1.24)	.04
	MR-proANP	1.12 (1.00-1.25)	.04
	N-BNP	1.22 (1.10-1.36)	<.001
First coronary events Cystatin C		1.15 (1.04-1.27)	.006
	MR-proADM	1.21 (1.07-1.37)	.002
	N-BNP	1.28 (1.12-1.47)	<.001

Melander et al. JAMA 2009

Midregional proadrenomedullin predicts reduced blood pressure and glucose elevation over time despite enhanced progression of obesity markers

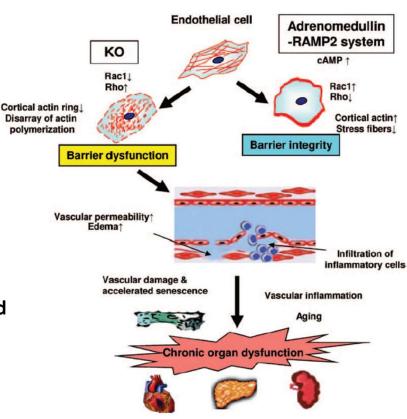
Therese Ohlsson, Peter M. Nilsson, Margaretha Persson, and Olle Melander Journal of Hypertension 2019, 37:590–595



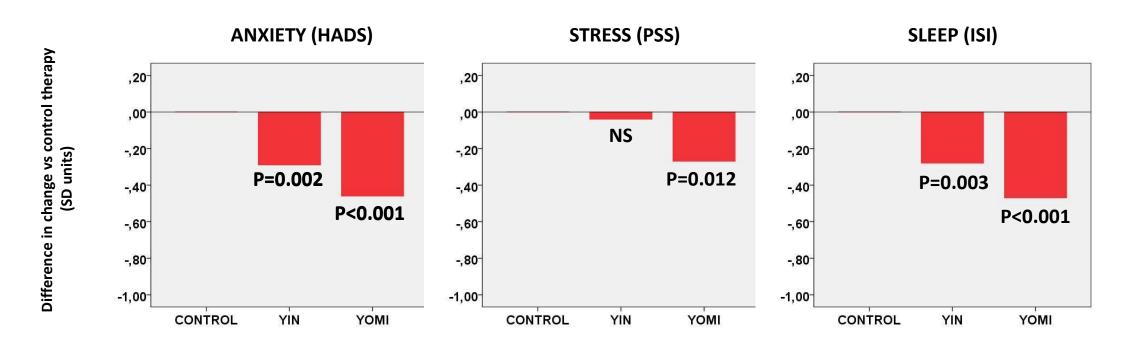
ADM (bio-active ADM) = Good guy but sign of something bad "high value = cry for help"

#### Vascular Endothelial Adrenomedullin-RAMP2 System Is Essential for Vascular Integrity and Organ Homeostasis

Teruhide Koyama; Laura Ochoa-Callejero, PhD; Takayuki Sakurai, PhD; Akiko Kamiyoshi, PhD;
 Yuka Ichikawa-Shindo, MD, PhD; Nobuyoshi Iinuma, MD, PhD; Takuma Arai, MD, PhD;
 Takahiro Yoshizawa; Yasuhiro Iesato, MD; Yang Lei; Ryuichi Uetake; Ayano Okimura;
 Akihiro Yamauchi; Megumu Tanaka; Kyoko Igarashi; Yuichi Toriyama, MD; Hisaka Kawate;
 Ralf H. Adams, PhD; Hayato Kawakami, MD, PhD; Naoki Mochizuki, MD, PhD;
 Alfredo Martínez, PhD; Takayuki Shindo, MD, PhD



# Effects of 5-weeks yoga ("YIN") and yoga+mindfulness (YOMI) vs CONTROL on parameters of psychological stress

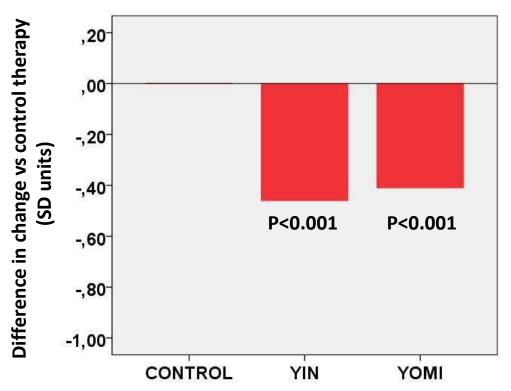


Daukantaitė, D, PLOS ONE, 2018



# Effects of 5-weeks yoga ("YIN") and yoga+mindfulness (YOMI) vs CONTROL on circulating adrenumedullin concentration





## YOMI INDUCED CHANGE OF ADRENUMEDULLIN VS CHANGE OF ANXIETY

r=0.28, P=0.02

Daukantaitė, D, PLOS ONE, 2018



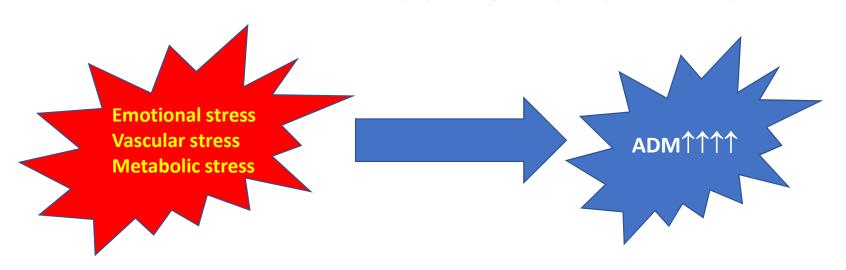


#### **RESEARCH ARTICLE**

Five-week yin yoga-based interventions decreased plasma adrenomedullin and increased psychological health in stressed adults: A randomized controlled trial

Daiva Daukantaitė<sup>1</sup>°, Una Tellhed<sup>1</sup>°, Rachel E. Maddux<sup>1</sup>, Thomas Svensson<sup>2,3</sup>, Olle Melander<sup>2,4</sup>\*

PLOS ONE | https://doi.org/10.1371/journal.pone.0200518 July 18, 2018

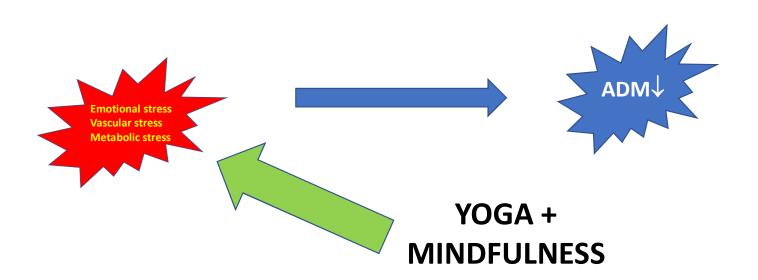


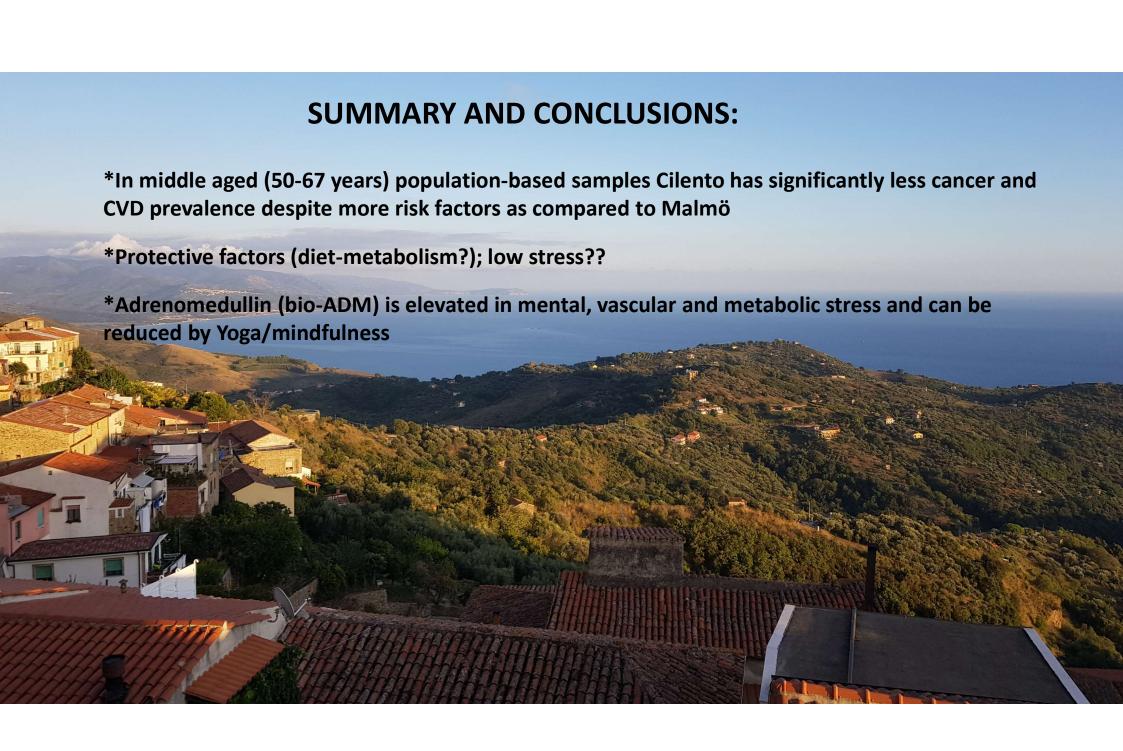
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PLOS ONE | https://doi.org/10.1371/journal.pone.0200518 July 18, 2018







**GRAZIE!**