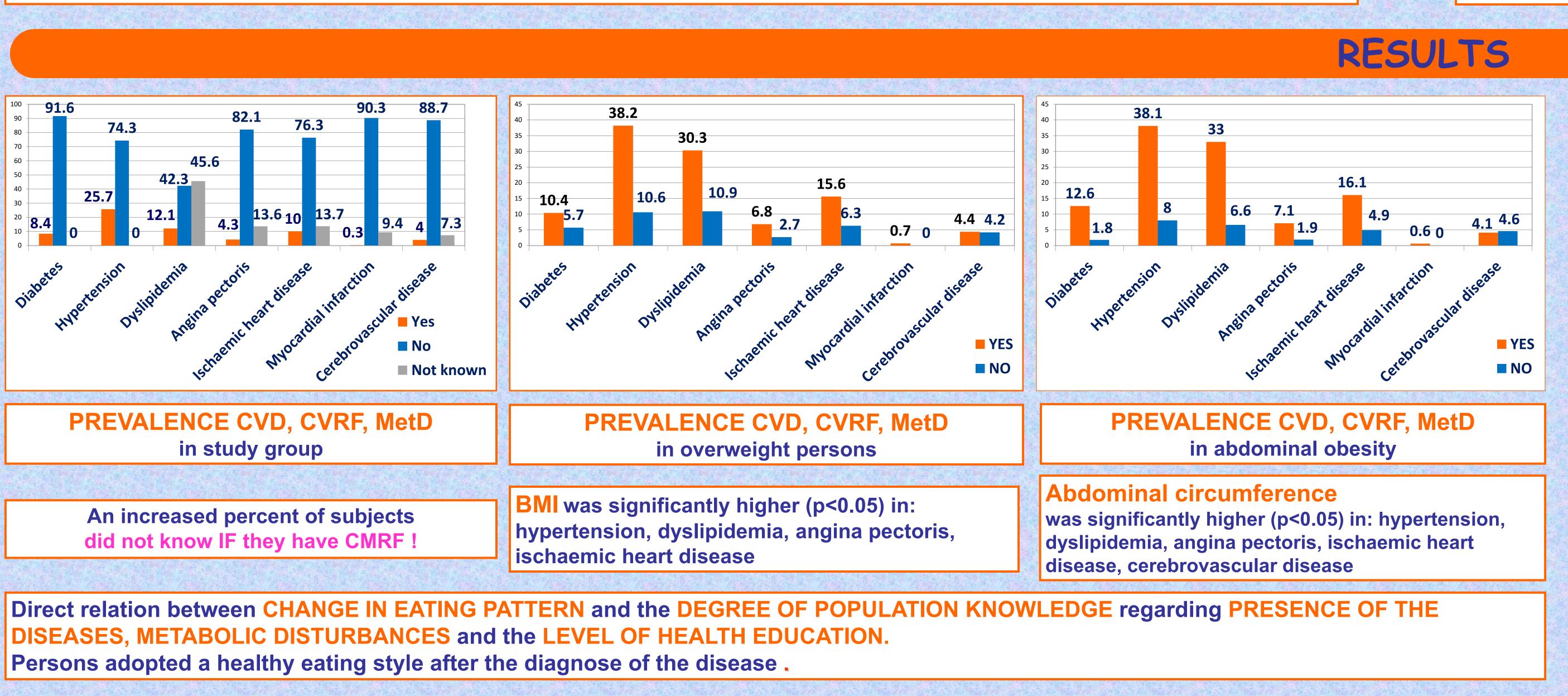
RELATIONS BETWEEN FOOD INTAKE, WEIGHT STATUS AND CARDIO-METABOLIC DISTURBANCES IN AREA REPRESENTATIVE GROUP



Background and aim. Food intake and increased weight are main determinants of cardio-metabolic disturbances. The aim of the study was to assess the relations between food intake, weight status and cardio-metabolic disturbances. Methods. The study group (311 adults) selected from Galati county, Romania, general population was representative for age, gender and residence. We assessed cardiovascular disease(CVD) and risk factors (CVRF), metabolic disorders (MetD), food habits and weight status. Results. Body mass index (BMI) and abdominal circumference were significantly higher in persons with hypertension, dyslipidemia, angina pectoris, and chronic coronary heart disease. Abdominal circumference was also significantly higher in persons with cerebrovascular disease(p<0.05). Diabetes was directly associated with daily number of meals, butter and lard intake, and inversely related to intake/preferences of juices, cookies, sweets and bread. Arterial hypertension was inversely related to intake of cream, juices, cookies, sweets. Hypercholesterolemia was inversely related to intake of sausages. Angina pectoris, ischaemic heart disease were inversely related to intake of pork/beef. Ischaemic heart disease was inversely related to alcohol consumption. Cerebrovascular disease was directly associated with consume of chicken/turkey (p<0.05). Conclusion. Weight status and abdominal obesity were directly related with cardio-metabolic disturbances (CVD,CVRF and MetD) in this specific area group. It was noticed a direct relation between healthy eating pattern and the degree of population knowledge regarding presence of the cardio-metabolic disturbances, even if these conditions had high prevalence and awareness of their presence was poor.

BACKGROUND AND AIMS

Cardiometabolic pathology is frequently associated with and caused by obesity, as stated by many clinical studies. The identification of factors leading to obesity would result in better prevention and treatment of cardiovascular diseases and risk factors. Aim - the relation between cardiovascular disease (CVD), cardiovascular risk factors (CVRF) and metabolic diseases (MetD) with weight status (body mass index - BMI), abdominal obesity (abdominal circumference), and eating pattern in general population.



References: Blundell, 1996; Simu, 1999; Hancu, 1999, 2001; Hill&Rogers, 1998; Astrup, 2001; Kopelman, Caterson&Dietz, 2002; Drewnowski, 1998. Acknowledgements: No conflicts of interest or funding disclosure.

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ABSTRACT

MATERIAL AND METHODS

<u>Study group</u>: 311 adult persons - representative group for Galati County(Romania) population as age, gender, residence: age groups(20-29,30-39,40-49,50-59,60-65,>65 years),men 111(35,7%),women 200(64,3%),urban 192(61,7%),rural 119(38,3%) Weight status parameters: body weight, body height, body mass index (BMI), abdominal circumference Cardiovascular disease (CVD), cardiovascular risk factors (CVRF) and metabolic diseases (MetD): Obesity, diabetes, hypertension, dyslipidemia, ischaemic heart disease, angina pectoris, myocardial infaction, cerebrovascular disease = Cardio-metabolic Risk Factors (CMRF) Obesity Screening Form of the Romanian Association for the Study of Obesity: **Dietary assessment / Anthropometric parameters / Evaluation of prevalence of CMD and CMRF. Statistical analysis** of data was performed with SPSS program.

Eating parameters (self-reported, Obesity Screening Form of Romanian Association for the Study of Obesity)

Eating pattern: **Breakfast** (always/variable/no) Daily no. of meals Daily no. of snacks

Eating preferences: (≥ 3 times/week, yes/no) bread, meat, vegetables, cakes, cheese, juices, sweets, fruits, cream, potatoes, cold cuts, others

Fat intake <u>(yes/no)</u> butter, r lard, veg cream, whipped

	Diabetes – directly related with no. of meals/day Diabetes – directly related with intake of butter, lard Diabetes – inversely related with intake/preference of juic		
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	cookies, sweets and bread		
W.S.	Arterial hypertension - inversely related with intake of crea		
10 - 10 -	Arterial hypertension - inversely related with intake/ prefer		
1	juices, cookies, sweets		
	Hypercholesterolemia - inversely related with intake of		
Sale -	(those who know if they have or not high blood lip		
	sausages than those who don't know their lipid status)		
No.	Angina pectoris, ischemic heart disease – inversely re		
	intake of pork/beef		
Service of	Ischemic heart disease - inversely related to alcohol intak		
	(those who know they have the disease eat the least, the		
	not aware about their heart conditions consume the most, and		
	are those who know they don't have the disease)		
SAL S	Cerebrovascular disease - directly related with		
	chicken/turkey		
A ST	(those who know they have the disease eat the most, the		
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those who know they don't have the disease).



(e:	<u>Weekly food groups intake:</u> (0-1, 2-3, 4-6 times/week, daily)	Alcohol intake:
margarine,	pasta, potatoes, beans/peas,	none
getable oil,	fruits, other vegetables,	occasionally
beacon	cheese, pork/beef, cold cuts,	weekly
d cream	chicken/turkey, fish, fried food	daily

CONCLUSIONS

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