FIRST-YEAR MEDICAL STUDENTS ATTRACTED BY PRIMARY HEALTH CARE PRESENT SPECIFIC PERSONAL CHARACTERISTICS UNIVERSITÉ DE GENÈVE

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Background

In Switzerland, like in many EU countries, an insufficient proportion of students are choosing primary health care (PHC) as a career, and worries are expressed about shortage of these physicians in the near future. It would be useful to identify the personal characteristics of students motivated or not to pursue a PHC career, in order to develop strategies targeted to promote this specialty.

Summary of work

Population:

350 first-year medical students (229 women, 121 men) at the Geneva Medical school (from a 6-year curriculum)

Research question

Do first-year medical students motivated by or intending to specialize in PHC present specific personal characteristics?

Methods (Self-reported questionnaires):

Measures	Tools	Personal characteristics	
Empathy	Jefferson Scale of Empathy Empathy quotient	Representation Capacity	
Personality	Big Five	Nevrosism Extraversion Openness Agreableness Conscientousness	
Coping	Coping Inventory for Stressful Situations	Task Emotion avoidance	
Motivation	Self-developed multiple choice items (10)	Extrinsic (4 items) Intrinsic (3 items) Care (3 items)	
Outcome		Indicators of PHC interest	
Motivation for PHC	Analogic scale (1 to 6)	Continuous scale Low (1-2) Medium (3-4) High (5-6)	
Career intentions	13 choices combined in 3 categories	PHC Non-PHC Undecided	

Statistical analyses

- Level of motivation for PHC
 - Descriptive: motivation for PHC (low, medium, high) \checkmark stratified by gender
 - Correlations with personal characteristics
 - Linear regression analysis using personal characteristics \checkmark which correlated significantly
- PHC career intention
 - Descriptive: career intentions stratified by gender \checkmark
 - ANOVA and MANOVA of career intentions by personal \checkmark characteristics

Summary of results

1. Motivation for PHC

Me

Level of

low

motivation

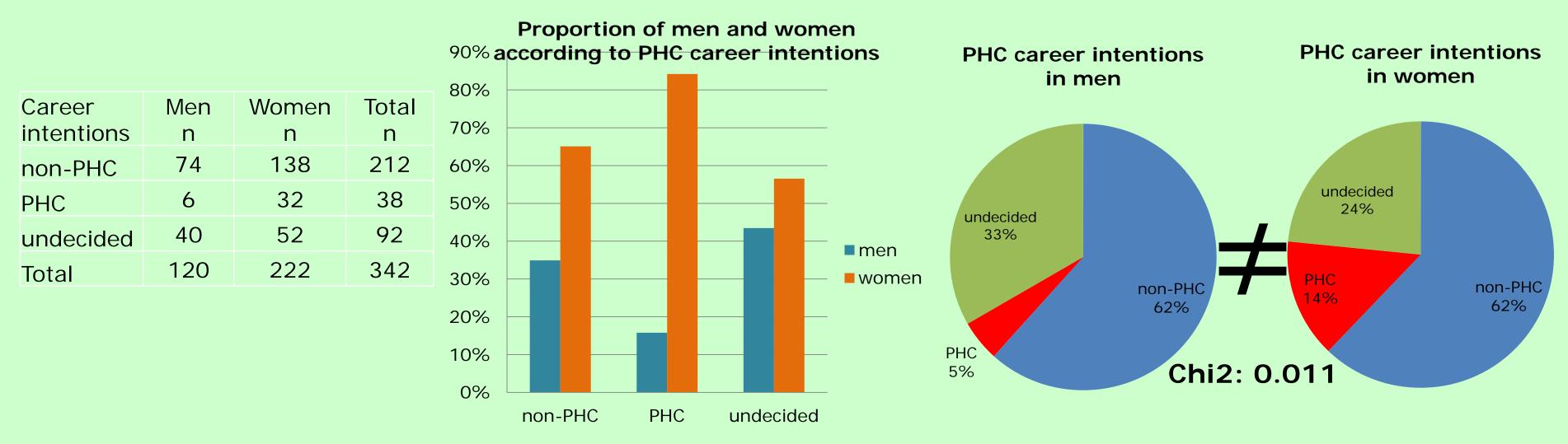
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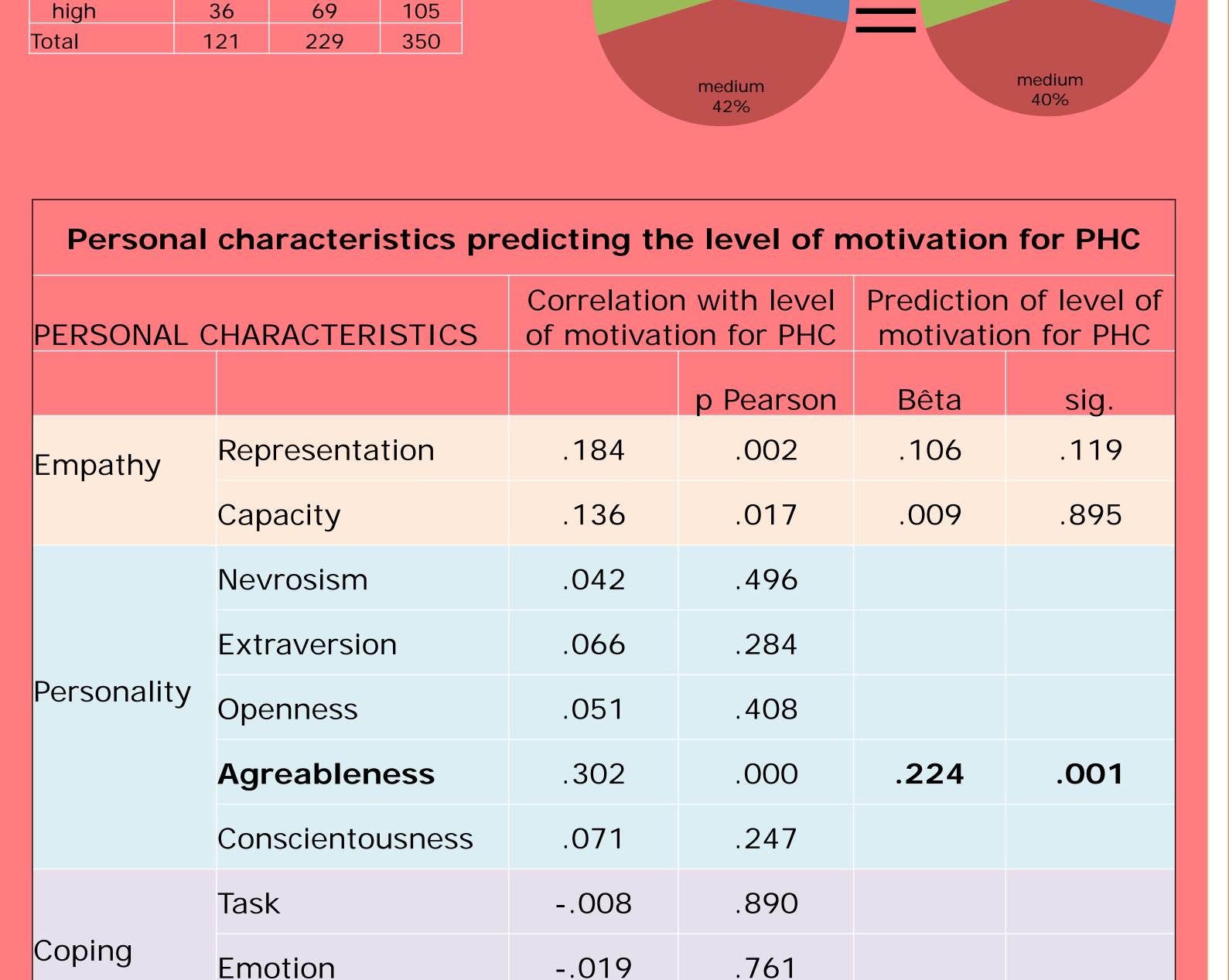
			n	womer	
en	Women	Total			
า	n	n	high	low	high
4	68	102	high 30%	28%	30%
1	92	143			
6	69	105		-	
21	229	350			

2. PHC career intentions

low

30%





Personal characteristics according to PHC career intentions

PERSONAL CHARACTERISTICS		PHC	non-PHC	undecided	p-ANOVA
Empathy	Representation	116.3 ± 8.7	110.9 ± 9.1	110.3 ± 9.4	.040
	Capacity	54.6 ± 6.9	48.4 ± 8.1	47.3 ± 8.3	.003
Personality	Nevrosism	22.1 ± 9.4	21.6 ± 9.1	22.7 ± 7.2	.727
	Extraversion	30.2 ± 4.8	29.2 ± 4.7	27.2 ± 5.6	.012
	Openness	29.8 ± 7.2	28.9 ± 6.2	31.6 ± 5.5	.012
	Agreableness	30.6 ± 4.5	28.9 ± 5.3	28.8 ± 5.0	.370
	Conscientousness	36.2 ± 7.1	33.5 ± 7.3	33.2 ± 6.4	.260
Coping	Task	63.2 ± 8.2	62.2 ± 8.6	61.4 ± 9.1	.692
	Emotion	44.2 ± 9.5	44.2 ± 12.3	42.7 ± 9.4	.685
	Avoidance	48.8 ± 8.1	44.3 ± 8.6	43.0 ± 9.1	.047
Motivation	Extrinsic	3.3 ± 1.1	3.8 ± 0.8	3.9 ± 0.7	.008
	Intrinsic	4.8 ± 0.9	4.6 ± 1.1	4.4 ± 1.0	.334
	Care	5.7 ± 0.4	5.5 ± 0.8	5.3 ± 0.8	.075
	p-MANOVA				.001

Motivation	Extrinsic	080	.134		
	Intrinsic	.201	.000	.038	.632
	Care	.226	.000	.135	.091

.078

.200

Conclusion and discussion

Avoidance

Among 350 first-year students:

- \checkmark 70% claimed being highly or moderately motivated to be specialised as PHC doctors, and this was equivalent for men and women. However, only 5% (n=6) of men and 15% (n=32) of women intended to pursue a PHC career. Hence, among these 38 students, 85% were women.
- While agreableness predicted the level of PHC motivation, empathy, avoidance coping and low extrinsic motivation characterised students intending to pursue a PHC career

Results at one medical school confirm that the proportion of first-year students interested by a PHC career is insufficient to meet the needs of the population (about 50% by year 2030 in Switzerland). Therefore encouragement strategies would be needed to increase the number of PHC specialists. Women who are spontaneously attracted by PHC should be supported to maintain this intention. On the other hand, men and undecided students could be targeted by promotion measures to motivate students to this career. Knowing better the profile of these students might help to adjust the strategies.

Take-home messages

Students motivated by a PHC career are characterized by agreeableness.

Students intending to specialize as PHC doctors are mainly female and empathetic students which are less motivated by extrinsic incentives.

Profile linked to high motivation for PHC differs from profile linked to intention to be specialized as PHC.

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