Expectations of hospital pharmacists and pharmacy residents from Québec towards pharmacogenomics

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INTRODUCTION

Pharmacogenomics is the study of how genes affect a person's response to medications. Pharmacogenomic tests are currently available to identify genetic polymorphisms in drug-metabolizing enzymes but their use is still limited in clinical practice.

OBJECTIVES

- **Primary objective**: Describe and compare the perceptions and expectations of hospital pharmacists and pharmacy residents from Quebec towards pharmacogenomics
- **Secondary objective**: Describe and compare the exposure and knowledge about available pharmacogenomics resources of hospital pharmacists and pharmacy residents from Quebec.

METHODOLOGY

Between January and March 2016, hospital pharmacists and pharmacy residents from Quebec were invited to respond anonymously to an online survey of twenty-three questions (Surveymonkey®, Palo Alto, CA, USA). The survey focuses on demographics, pharmacists expectations, fears, concerns and experience on pharmacogenomics. Only descriptive statistics were performed.

RESULTS

Table 1 - Demographics

Caracteristics	All respondents (n=173) (%)	Hospital pharmacists (n=137) (%)	Pharmacy residents (n=36) (%)
Sex, n(%)			
Men	48 (27.7)	33 (24.1)	15 (41.7)
Women	125 (72.3)	104 (75.9)	21 (58.3)
Age group (years), n(%)			
20-30	65 (37.6)	32 (23.4)	33 (91.7)
31-40	39 (22.5)	36 (26.3)	3 (8.3)
41-50	34 (19.6)	34 (24.8)	0 (0.0)
51-60	29 (16.8)	29 (21.2)	0 (0.0)
61-70	6 (3.5)	6 (4.4)	0 (0.0)
71-80	0 (0.0)	0 (0.0)	0 (0.0)
Contact with patients*, n(%)			
Yes	152 (87.9)	117 (85.4)	35 (97.2)
No	20 (11.6)	20 (14.6)	0 (0.0)

Figure 2 - Training on pharmacogenomics

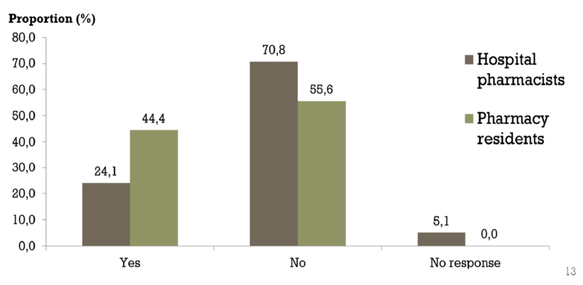


Figure 4

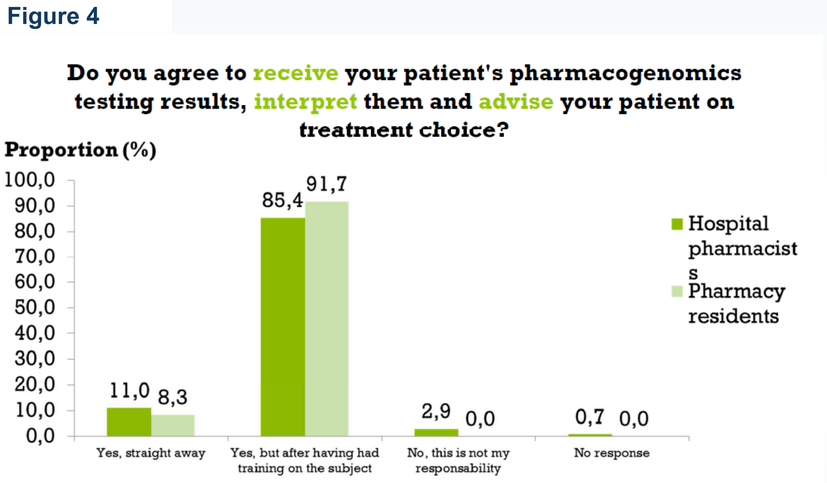


Figure 5

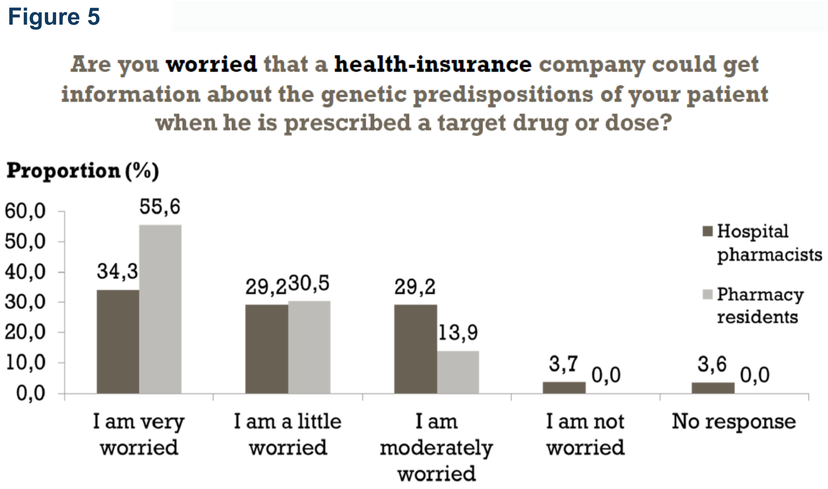


Figure 6

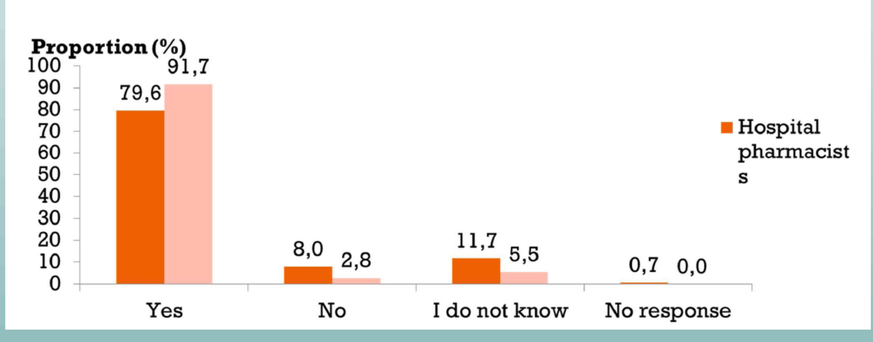
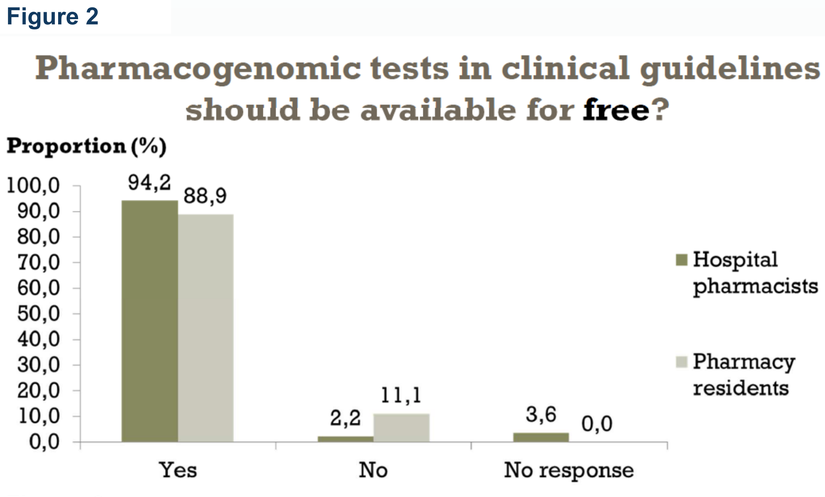
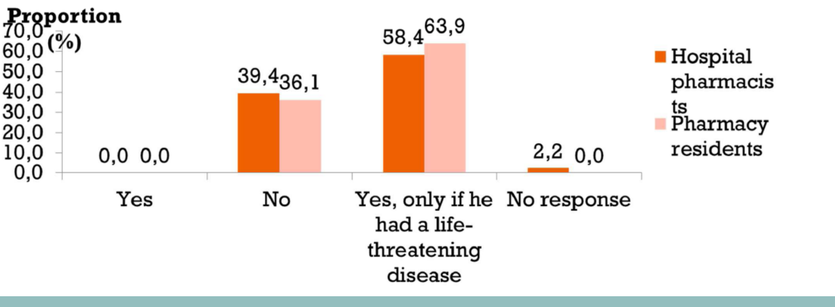


Figure 3



Figures 2 to 6 show the opinion of hospital pharmacists and pharmacy residents about pharmacogenomics key features.

Figure 5



DISCUSSION

- These results are similar to those published in a previous Quebec survey conducted in 2011.
- Limitation : the response rate is limited and the study population is heterogeneous with both pharmacists and pharmacy residents from Quebec and France.

CONCLUSION

- Hospital pharmacists and pharmacy residents are open minded, positive and want to integrate pharmacogenomic in their practice.
- More training is required.

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