

Are Confidence Levels of Hospital Pharmacists Different from Other Pharmacists in the Management of Anticoagulation Therapy? Preliminary Results from a Multinational Pharmacists Needs Assessment Survey.

CP-239. B01-Antithrombotic agents

J. Papastergiou^{1,3}, F. Alves da Costa², F. De Rango³, S. Antoniou⁴, S. Steurbaut⁵, S. Rydant⁶, B. van den Bermt⁷, N. Kheir⁸

¹University of Toronto, Leslie Dan Faculty of Pharmacy, Toronto, Canada. ²Instituto Superior de Ciências da Saúde Egas Moniz, Cooperativa de Ensino Superior Egas Moniz, Caparica, Portugal. ³Shoppers Drug Mart, Pharmacy, Toronto, Canada. ⁴Barts Health NHS Trust, Cardiovascular Medicine, London, United Kingdom. ⁵Free University of Brussels, Department of Clinical Pharmacology and Clinical Pharmacy, Brussels, Belgium. ⁶Royal Antwerp Association of Pharmacists KAVA, Pharmacy, Antwerpen, Belgium. ⁷Sint Maartenskliniek, Department of Pharmacy, Nijmegen, The Netherlands. ⁸Qatar University, College of Pharmacy, Doha, Qatar.

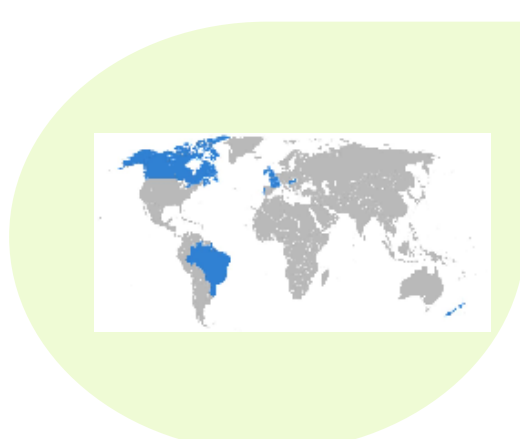
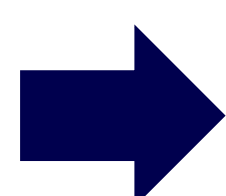
1. Introduction

The International Pharmacists for Anticoagulation Care Taskforce (iPACT) is an expert group committed to enhancing the key role that pharmacists play in anticoagulation management. Pharmacists are ideally suited to monitor patients in this therapeutic area; however, an assessment of their knowledge in providing consultations has not been formally evaluated.

2. Aim

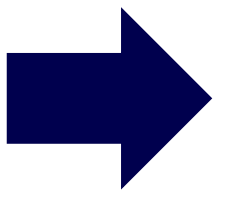
The objective of this needs assessment survey was to identify self-reported gaps in competencies, variations in confidence between community and hospital pharmacists, and to examine the areas of anticoagulation with varying needs.

3. Methods



Step 1: Consultation with expert working group to determine questionnaire content

Step 2: Distribution of needs assessment surveys to pharmacists across the world



Step 3: Survey completion

Step 4: Analyze results



Step 5: Identify gaps in knowledge and opportunities for continuing education

4. Data - Demographics

Figure 1 - Distribution of Respondents by Country of Practice
Total Number of Respondents: 1692

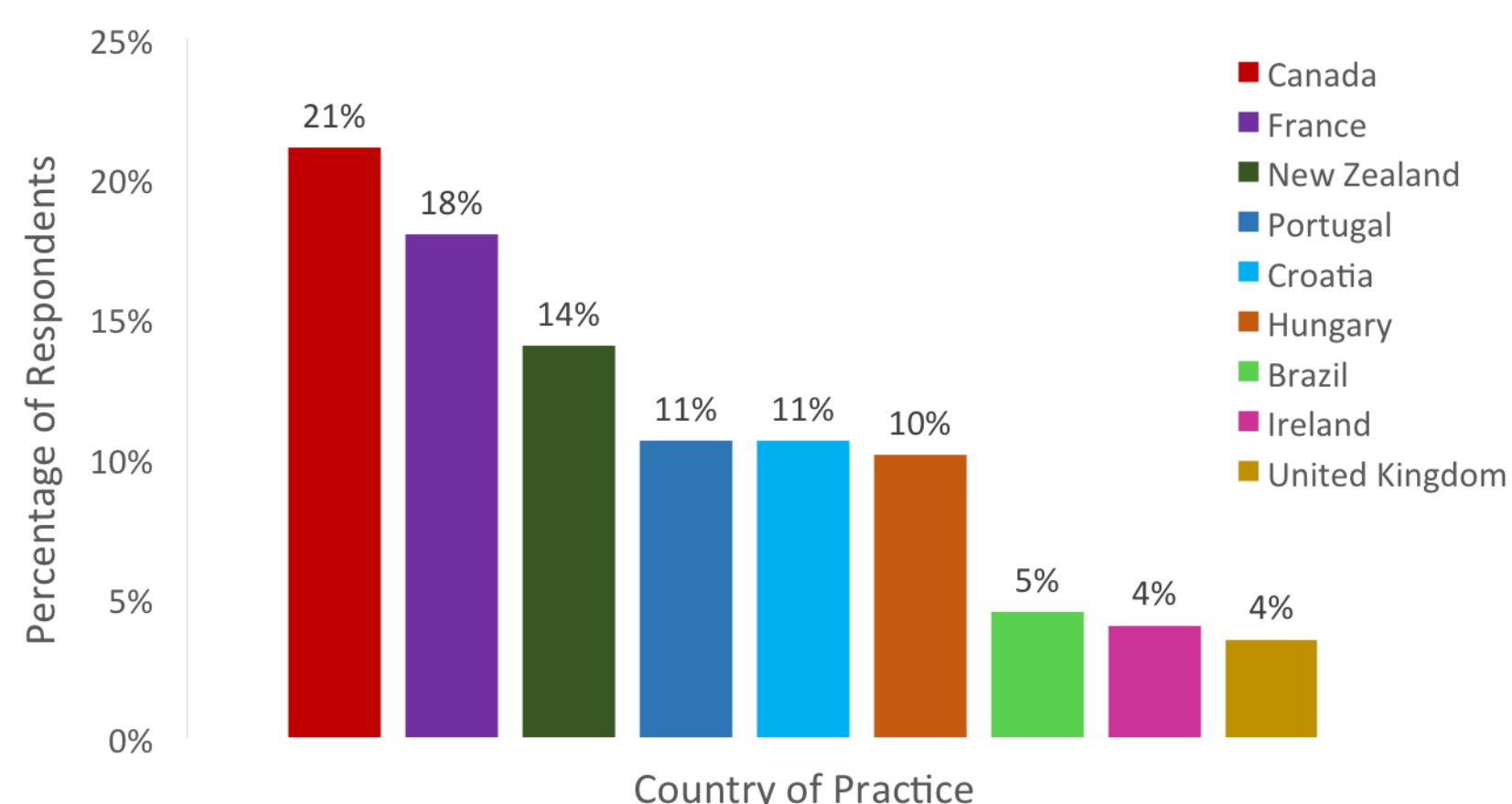
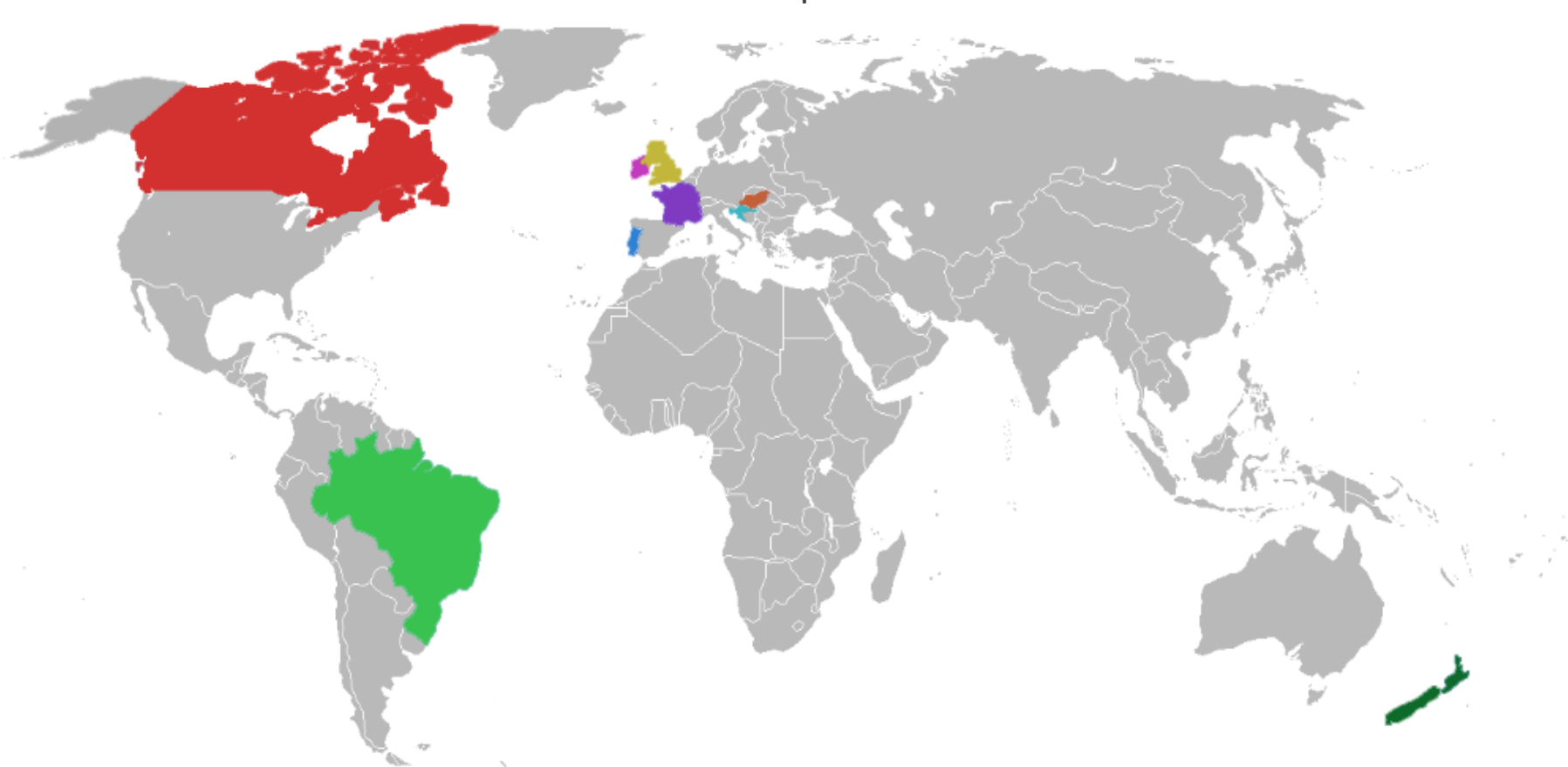
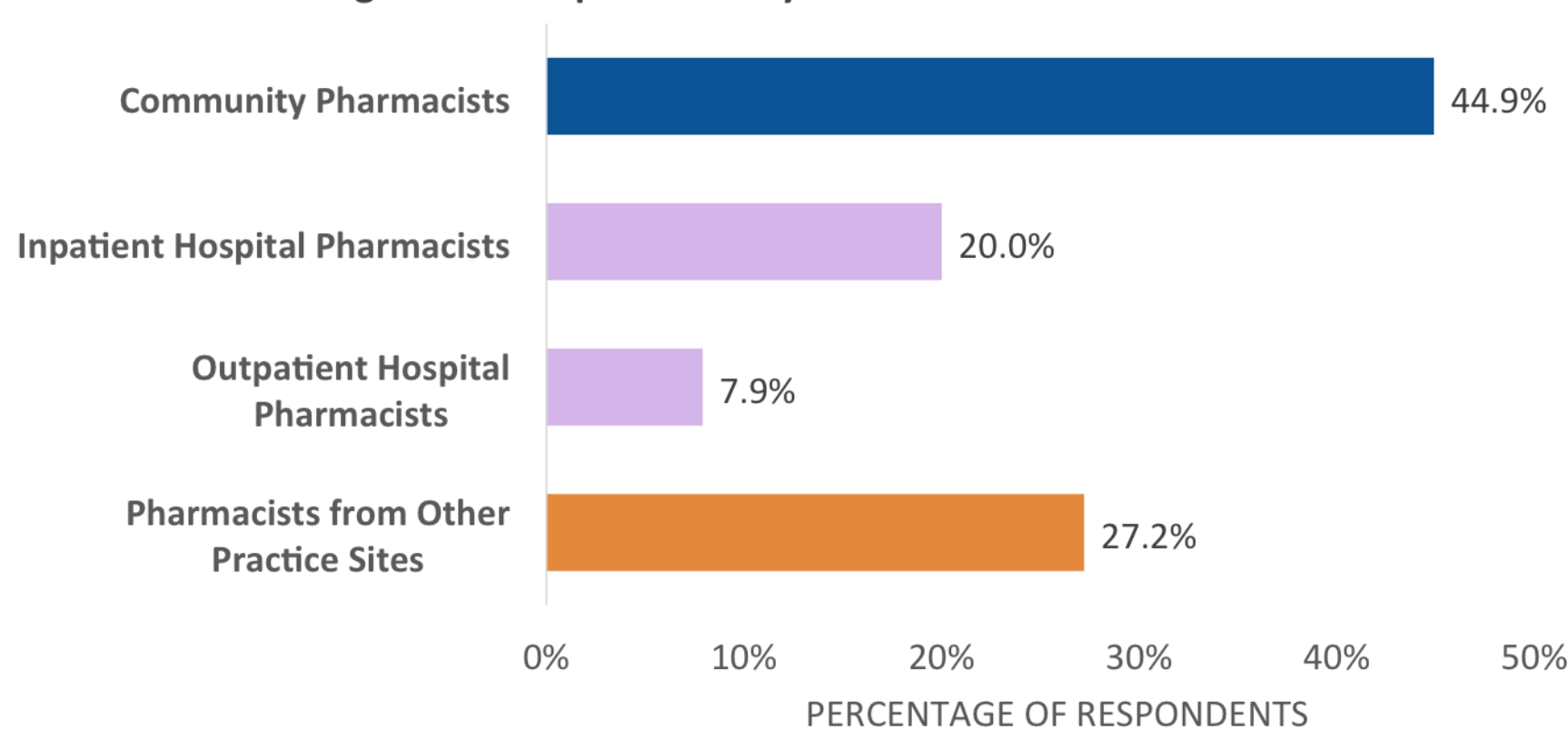


Figure 2 – Respondents by Practice Site



5. Results – Survey Responses

Figure 3 - Confidence Levels of Pharmacists on VKA versus DOAC Education

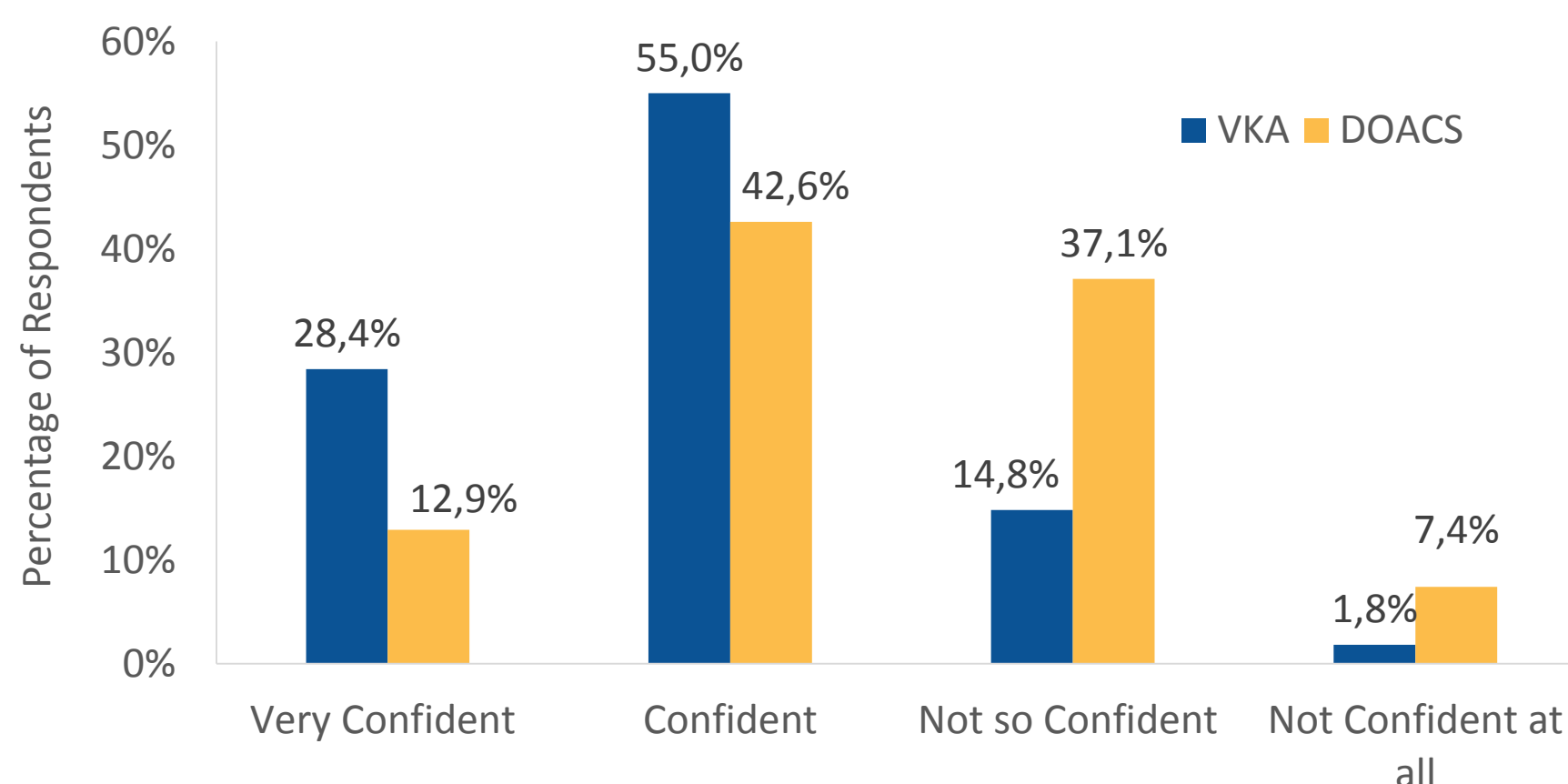


Figure 4 - Confidence Levels of Inpatient Hospital Pharmacists versus Pharmacists in Other Practice Sites on VKA and DOAC Education

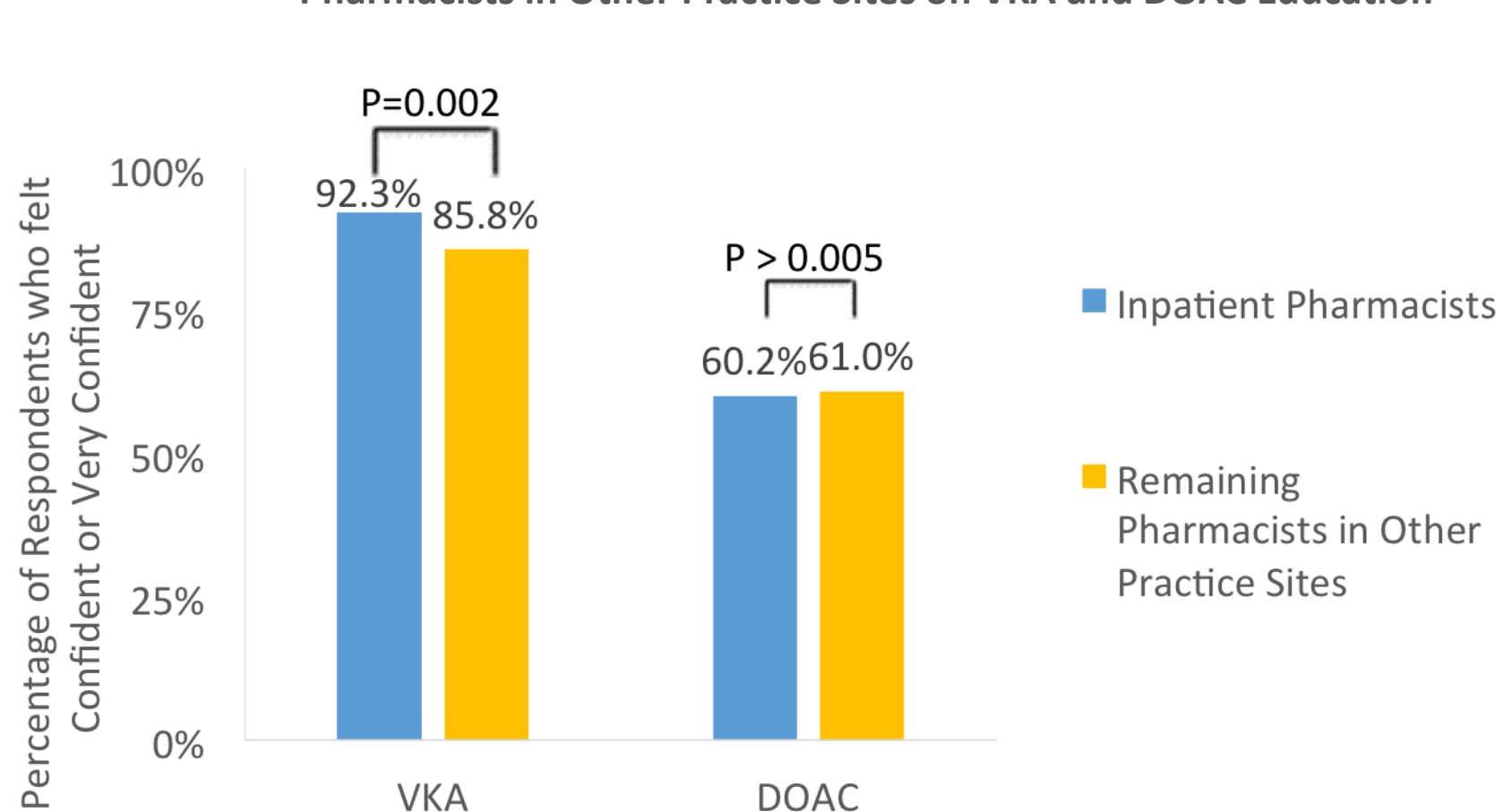
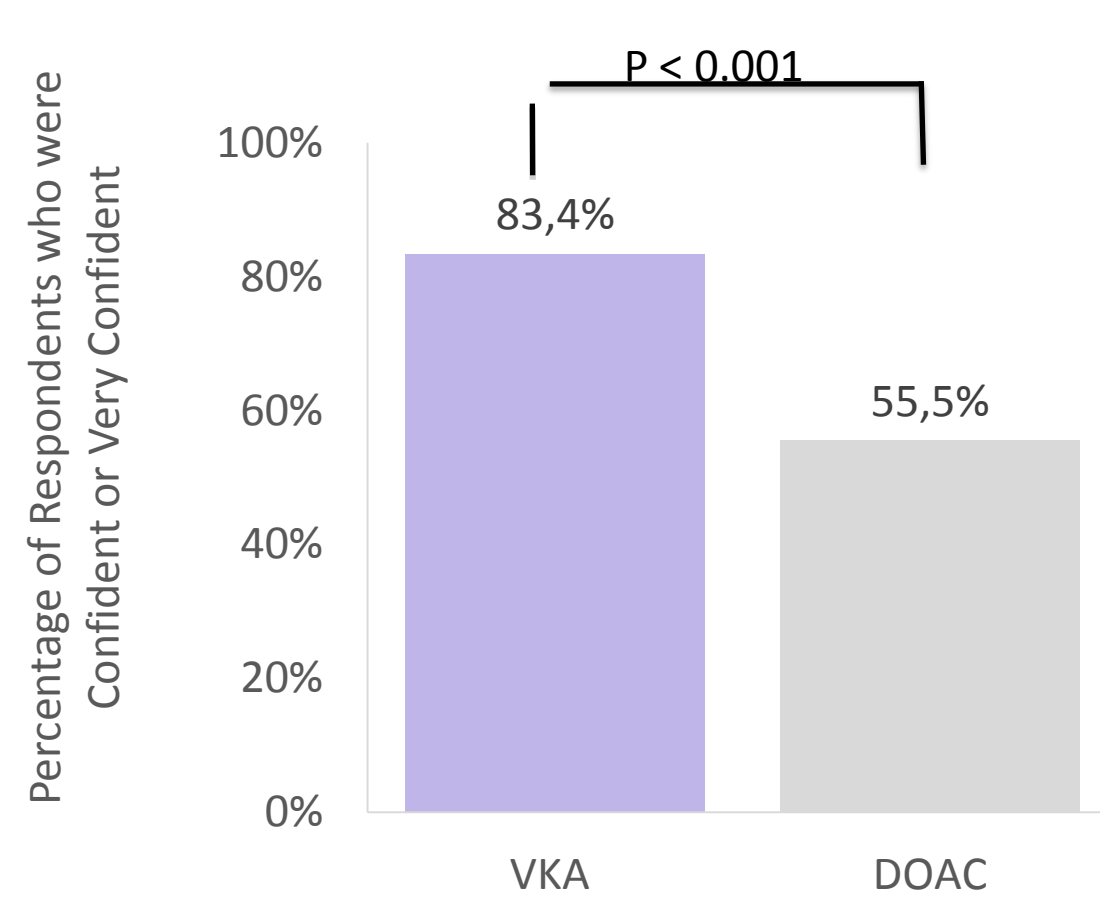


Table 1 – Mean Score Confidence Levels in Inpatient Hospital Pharmacists versus Pharmacists in Other Practice Sites on Anticoagulant Education

Mean Score Confidence Levels			
Inpatient Hospital Pharmacists	Pharmacists in Remaining Practice Sites	Outpatient Hospital Pharmacists	Pharmacists in Remaining Practice Sites
24.04	26.04	25.78	25.48
P-value		P-value	
<0.001		>0.005	

Figure 5 - Overall Confidence of Pharmacists on VKA versus DOAC Education



6. Conclusions

- Overall, pharmacists were less confident in providing info on DOACs compared with VKA (83.4% versus 55.5%; $p < 0.0001$)
- Compared to all other pharmacists, hospital pharmacists felt more confident when advising patients about VKA (92.3% of ward pharmacists felt confident or very confident, compared to only 85.8% among other pharmacists; $p = 0.002$).
- There were no differences found in their confidence levels when advising on DOACs (only 60.2%, compared to 61.0%, felt confident or very confident; $p > 0.005$)
- These results highlight the apparent lack of confidence by both community and hospital pharmacists when discussing anticoagulation, particularly DOACs.
- Future continuing education programs should be developed using electronic platforms, with a focus on clinical themes that apply across all practice settings.

7. Contact Details

John Papastergiou, BScPhm || Assistant Professor || Leslie Dan Faculty of Pharmacy, University of Toronto || School of Pharmacy, University of Waterloo || Shoppers Drug Mart || Tel. 416-461-7533 || Fax. 416-463-8465 || 755 Danforth Avenue Toronto ON Canada M4J 1L2 || asdm500@shoppersdrugmart.ca