

Table 1. Student perceived confidence in application of pharmacogenomic skills

Survey Question	Pre vs post-module survey improvements in each Cohort (p-value) ^a			Pairwise comparisons of the proportions (%) of students that ‘strongly agree’ in post-module survey between the three Cohorts				Post-module survey comparison of proportion (%) of students who “strongly agree” among those who did/did not undergo self-pharmacogenomic testing in Cohort C ^b		
	A (n=60)	B (n=21)	C (n=114)	A (n=252)	B (n=49)	C (n=209)	p-value ^b	Test (n=86)	No Test (n=22)	p-value
Basic genetic concepts	<0.0001	0.0117	<0.0001	14	14	24	A v C, p=0.0121	33	14	0.1129 ^c
Differences between a pharmacogenetic test and a genetic test for disease risk	<0.0001	0.0039	<0.0001	17	17	28	A v C, p=0.0049	31	18	0.2976 ^c
Risks associated with pharmacogenetic testing	<0.0001	0.0029	<0.0001	9	14	20	A v C, p=0.0007	26	0	0.0059 ^c
Interpretation of pharmacogenetic test results	<0.0001	0.0195	<0.0001	14	17	26	A v C, p=0.001	33	14	0.1129 ^c
Implications of pharmacogenetic test results	<0.0001	0.0024	<0.0001	16	20	29	A v C, p=0.0004	38	14	0.0409 ^c
Ethical implications of performing a pharmacogenomic test	NA	0.0015	<0.0001	NA	22	23	ns	28	5	0.0233 ^c
Appropriately refer a patient to a genetic counsellor	<0.0001	0.0068	<0.0001	10	14	22	A v C, p=0.0005	29	14	0.1788 ^c
Recommend a specific pharmacogenetic test to a healthcare provider	<0.0001	0.0039	<0.0001	11	20	22	A v C, p=0.0012	27	14	0.2687 ^c
Recognise clinically relevant gene variants	<0.0001	0.0078	<0.0001	14	19	16	ns	21	5	0.1137 ^c
Design a patient-specific pharmacotherapy regimen that incorporates pharmacogenetic test results	<0.0001	0.0005	<0.0001	9	18	12	A v B, p=0.0457	18	5	0.1836 ^c
Communicate clinical recommendations regarding pharmacogenomics to other healthcare professionals	<0.0001	0.002	<0.0001	12	18	19	A v C, p=0.0013	30	18	0.3003 ^c
Educate other healthcare professionals about pharmacogenetics	<0.0001	0.0005	<0.0001	12	20	36	A v C, p<0.0001	35	14	0.0698 ^c
Finding pharmacogenomic resources (e.g., guidelines) available for use in clinical setting	<0.0001	0.002	<0.0001	21	14	36	B v C, p=0.0035 A v C, p=0.0004	45	27	0.1249

^ap-value of Wilcoxon matched-pairs signed rank test^bp-value of Chi-Squared test unless otherwise stated

p-value of Fisher's exact test

ns indicates that none of the three pairwise comparisons are significant

NA not assessed

