

**Online Appendix. Difference in responses between pre- and post-training questionnaires (n=122)**

Statements	Pre-training questionnaire		Mean change from pre- to post-training questionnaire		p-value <sup>a</sup>
	Median	IQR	Mean	SD	
<b>Attitudes</b>					
I would like to become a qualified pharmacist immunizer.	5	0	0.01	0.70	0.984
I would like to administer (inject) vaccinations during my intern year.	5	1	0.14	0.73	0.042*
I would like to administer (inject) vaccinations when I am a pharmacist.	5	0	0.06	0.66	0.330
I see value in a pharmacy delivering immunization services.	5	0	0.12	0.65	0.002*
It is valuable to integrate immunization training into the pharmacy degree.	5	0	0.17	0.46	<0.001*
It is valuable to include immunization training in the final year of the pharmacy degree.	5	1	0.23	0.54	<0.001*
All pharmacy students should learn how to administer (inject) a vaccine.	5	1	0.13	0.81	0.072
All pharmacy students should learn how to set up and operate an immunization service.	5	1	0.30	0.74	<0.001*
I am fearful of injecting a vaccine to a patient. <sup>b</sup>	3	2	0.53	1.49	<0.001*
All pharmacists should undergo immunization training.	5	1	0.23	0.81	0.003*
Community pharmacy is an appropriate location for implementation of an immunization service.	5	1	0.16	0.76	0.002*
Providing an immunization service in a community pharmacy could improve career satisfaction for pharmacists.	5	1	0.40	0.73	<0.001*
Providing an immunization service in a community pharmacy improves relationships between pharmacists and patients.	5	1	0.43	0.69	<0.001*
In my opinion, there is public demand for a pharmacist-administered immunization service in community pharmacies.	5	1	0.37	0.90	<0.001*
<b>Confidence</b>					
I feel confident to administer (inject) vaccinations to adults.	2	2	1.66	1.40	<0.001*
I feel confident to administer (inject) vaccinations to children aged 10 to 18 years.	2	2	1.48	1.41	<0.001*
I feel confident to administer (inject) an intramuscular injection to another person.	2	2	1.79	1.40	<0.001*
I feel confident to administer (inject) a subcutaneous injection to another person.	2	2	1.73	1.34	<0.001*
I feel I need training in implementing and delivering an immunization service in the pharmacy. <sup>b</sup>	5	0	1.60	1.43	<0.001*
I feel I need training in injection techniques. <sup>b</sup>	5	0	1.84	1.43	<0.001*
I feel confident in communicating with, and screening, patients for their suitability for vaccinations.	3	3	1.12	1.34	<0.001*

Statements	Pre-training questionnaire		Mean change from pre- to post-training questionnaire		p-value <sup>a</sup>
	Median	IQR	Mean	SD	
<b>Self-Perceived Knowledge</b>					
I am confident in my knowledge of vaccine-preventable diseases.	3	2	1.05	1.02	<0.001*
I am knowledgeable about how the vaccines pharmacists can inject work.	4	1	1.07	1.13	<0.001*
I am knowledgeable about the effectiveness of those vaccines.	4	1	0.8	1.22	<0.001*
I am knowledgeable about the contraindications and precautions for use of those vaccines.	3	2	1.41	1.30	<0.001*
I am knowledgeable about the common adverse reactions which may occur following vaccinations.	4	1	1.11	1.06	<0.001*
I am knowledgeable about the clinical information within the <i>Australian Immunisation Handbook</i> on vaccinations pharmacists can administer.	3	1	1.74	1.21	<0.001*
I am knowledgeable about Western Australia's legislation in relation to pharmacist-administered vaccinations.	2	1	1.88	1.11	<0.001*
I am aware of, and know the content of, the <i>Western Australian Immunisation Strategy 2016-2020</i> .	2	1	1.26	2.05	<0.001*
I am knowledgeable about the procedures and protocols for infection control.	3	2	1.55	1.08	<0.001*
I am knowledgeable about the procedures and protocols for safe handling of biohazard waste.	3	2	1.27	1.10	<0.001*
<b>Self-Perceived Skills</b>					
I have the skills to implement and deliver an immunization service.	2	2	2.32	1.22	<0.001*
I have the skills to administer (inject) a vaccine.	2	1	2.55	1.17	<0.001*
I know how to recognise an anaphylactic reaction.	4	1	1.04	1.08	<0.001*
I know how to recognise and manage a vasovagal (fainting) reaction.	3	2	1.24	1.78	<0.001*
I have the skills to handle other adverse reactions from vaccinations.	2	1	2.05	1.21	<0.001*
I have the skills to handle an emergency situation following vaccinations, including adrenaline injection following anaphylaxis.	3	2	1.74	1.34	<0.001*
I know how to screen patients for suitability for vaccinations in the pharmacy.	2	2	1.97	1.25	<0.001*
I know when to refer a patient to a general practitioner for vaccinations.	3	2	1.28	1.88	<0.001*
I can communicate effectively with patients regarding immunizations.	3	2	1.45	1.08	<0.001*
I can communicate effectively with other healthcare professionals regarding immunizations.	3	2	1.60	1.17	<0.001*
I know how to obtain informed consent from a patient.	4	2	0.84	1.07	<0.001*

<sup>a</sup> p-values obtained from the Wilcoxon Signed Rank test.

<sup>b</sup> Questions were reverse coded (eg 1 = strongly agree recoded to 5 = strongly disagree).