

Review of Vaccinations and Emergency Medicines Training Requirements

June 2019

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Background

Since October 2011, with the introduction of the Medicinal Products (Prescription and Control of Supply) (Amendment) Regulations 2011 (S.I. No. 525 of 2011), pharmacists in Ireland have been authorised to administer the seasonal influenza vaccine. A subsequent amendment in 2015, Medicinal Products (Prescription and Control of Supply) (Amendment) (No. 2) Regulations 2015 (S.I. No. 449/2015) provided for pharmacists to administer five medicines (adrenaline, glucagon, glyceryl trinitrate, naloxone and salbutamol) for the purpose of saving life or reducing severe distress in emergency situations ('emergency medicines'), and two additional vaccines (herpes zoster (shingles), and pneumococcal polysaccharide). In all cases, pharmacists are required to have undertaken requisite training, approved by the Council of the PSI.

Following a targeted consultation process, training programmes were introduced in 2016 for pharmacists, to allow for the delivery of these services in pharmacy practice. The training structure comprised of a series of modules summarised as:

- CPR for Adults & Children
- Medicines Administration (Parenteral)
- Responding to an Emergency Situation & Management of Anaphylaxis
- Delivery of a Vaccination Service
- Medicine/Vaccine Specific Module

The modular structure (Figure 1) was designed to provide a streamlined system of training which prevents pharmacists having to duplicate training in areas which may be relevant to a number of vaccines or emergency medicines. Training is provided through face to face, online or a combination of face to face and online methods. The training programmes equip pharmacists with the necessary skills and knowledge to safely administer these medicines and vaccines to patients.

In June 2017, the Council of the PSI approved the validity periods for training programmes following a consultation process. Certain training programmes were assigned validity periods of up to 2 years. Pharmacists are allowed to self-assess their need to retrain in the Medicines Administration (Parenteral) training programme, with certain exceptions where training in this programme is required to be repeated.

Following on from feedback received in 2018, and in light of the fact that many training programmes fall out of the current accreditation in 2020, it was agreed by the Professional Development and Learning Committee (September 2018), that 2019 would prove timely to conduct a review of the training system and its requirements, to evaluate and inform plans for improvement, where and if issues may arise, to assure the quality and appropriateness of training for the delivery of these services.

Modular Training Structure

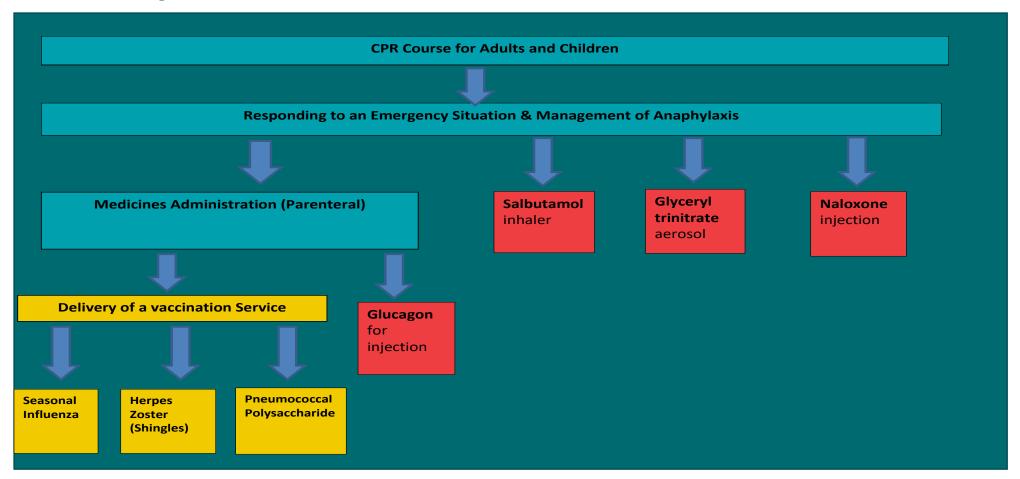


Figure 1: Modular Training Structure

Course Completion Rates¹

Training Programme	Completion 2016	Completion 2017	Completion 2018	Completion 2019
				Training
Medicines Administration (Parenteral)		_	_	commencing July
	953	501	461	2019
Herpes Zoster Vaccine	489	159	219	12
Influenza Vaccine	943	1083	1115	20
Pneumococcal Vaccine	524	174	251	13
Delivery of a Vaccination Service	828	468	585	14
Salbutamol	0	262	96	34
Naloxone	20	20	1	0
Glucagon	62	222	73	12
Glyceryl Trinitrate	85	258	64	16
Responding to an Emergency Situation Including the				
Management of Anaphylaxis (RESMA)	669	504	643	31

⁻

¹ Figures provided from training provider and IIOP as of 28 May 2019

Review Group

A Review Group was established in January 2019 to carry out the review. Members of the group are:

Ms Damhnait Gaughan Head of Registration and Education (Project Sponsor)

Ms Cora O'Connell Education Manager, Education Unit (Project Lead)

Padraig Corbett Authorised Officer, Inspection and Enforcement Unit

Ms Ciara Dooley Education Support Officer

Mr Conor O'Leary Head of Practice of Pharmacy Development

The Review Group defined the scope of the project (Appendix 1) and project plan (below). The project was presented before the PSI Professional and Regulatory Affairs Committee in April 2019.

Project Plan

	Tasks	Deadline
1	To hold Superintendent Pharmacist workshop	End of February
2	To meet stakeholders face to face, separately, for pre- survey input and collation of feedback on training requirements	End of February
3	Design survey for pharmacists	Mid March
4	Issue survey to pharmacists	End March
5	Collate feedback and identify if benchmarking/expert opinion required on any area	Mid-April
6	Complete any additional research as above (5)	End May
7	Complete final report recommendations	Early June

Stakeholder Engagement

A variety of stakeholders were invited to participate in early engagement on the review project, in advance of the development of a pharmacist survey. Engagement was carried out on a face to face basis or alternatively by way of conference call.

Stakeholders who participated included the following:

The Irish Institute of Pharmacy training provider
Hibernian Healthcare training provider
HSE training provider

The Irish Pharmacy Union

A workshop was also hosted with Superintendent Pharmacists. Participants invited to this workshop included pharmacists working across independent, small and large group pharmacy businesses.

The engagement sought to gain insights on the current training requirements, validity periods for training, delivery mechanisms for training and to collect any additional feedback which arose.

Common Themes

Communication

The majority of stakeholders believed that the training requirements could be more clearly communicated to the profession. It was noted that pharmacists can find it confusing what re-training needs to be completed and when.

One stakeholder believed that pharmacists do not perceive the training programmes as a modular system, and don't recognise the links between modules. Another stakeholder noted that the algorithm for training was complex and suggested that understanding could be assisted through improved IT solutions, though these may be costly. It was noted, by one stakeholder, that the PSI communication update in 2018 had improved the profession's understanding of the requirements.

A number of stakeholders noted confusion regarding the definition of 'experienced vaccinator²'.

² The term 'experienced vaccinator' was defined under PSI 2016/2017 training requirements as a pharmacist who had completed influenza vaccination training in 2015 and who had vaccinated patients for two consecutive years in the four years preceding 2015. Exemptions from completing the Delivery of a Vaccination Service module and Medicines Administration (Parenteral) training programme were granted to 'experienced vaccinators' at that time.

Training Programme: 'Delivery of a Vaccination Service'

There was consensus amongst stakeholders that the 2 year validity period for the Delivery of a Vaccination Service training programme was inappropriate.

Many stakeholders believed that pharmacists should self-assess their need for re-training in this online module and/or only be required to repeat training if they had a break in delivery of vaccination services. Stakeholders noted that Standard Operating Procedures (SOPs) for the delivery of vaccination services are reviewed annually and 'practice runs' are required to be overseen by the Superintendent Pharmacist regularly, as per PSI Guidelines.

Training Programme: Medicines Administration (Parenteral) Training Programme

Feedback regarding the validity period for training in the above module was mixed and varied.

The current training requirements require that a pharmacist who has not practised injection technique or been trained in the previous 12 months /vaccination season are required to repeat training. Some stakeholders believed that pharmacists should self-assess their personal requirements for re-training in this programme, notwithstanding recent or an absence of recent vaccination practice. One stakeholder noted that a pharmacist who has vaccinated large numbers of patients, but has a break in practice for 12 months, may not need to repeat training, and yet a pharmacist who has only vaccinated a small number of patients each year may benefit from re-training.

Members of the Superintendent Pharmacist Workshop Group expressed a consensus that training on the delivery of parenteral medicines should be repeated in circumstances where a pharmacist has had a break in practice of injection technique of 12 months or has not vaccinated in the previous influenza season.

All stakeholders agreed that a 'refresher' training module in the principles of this Training Programme would be welcome. Opinions were divided as to whether this should be delivered as face-to-face training or as an online option.

Disincentives to vaccination and emergency medicine service provision

A variety of potential influences on the uptake of vaccination training and services by pharmacists were suggested in the stakeholder engagement sessions. Some cited conflict/perceived conflict with local GPs, staffing or premises restrictions, costs of service delivery/initial financial outlay.

In the context of the uptake of training on emergency medicine services, the majority of stakeholders believed the primary disincentive to training and service delivery was the lack of re-imbursement for these services, should they arise. Other concerns included staffing requirements to manage such incidents, lack of knowledge surrounding training requirements, fear of liability, low likelihood of experiencing such an emergency and record keeping requirements. One stakeholder proposed that a sign could be provided to pharmacists who are providing emergency medicine services, for display in the pharmacy, as

a means to raise public awareness and encourage pharmacist uptake of training and service delivery.

Additional Themes

Other themes raised by smaller numbers of stakeholders included:

Expansion of vaccination services

Two stakeholders called for the expansion of vaccinations services in pharmacy. Calls were made to extend services to include travel vaccinations, and other vaccines and to permit influenza vaccination in children.

Some stakeholders expressed reservations about childhood vaccinations, believing that pharmacies were not an appropriate setting for delivering vaccinations to young children.

Guidance for self-assessment

One stakeholder proposed that guidance should be provided to pharmacists to assist the profession in safely reflecting on their need to repeat the Medicines Administration (Parenteral) Training Programme. The stakeholder elaborated that the need for retraining varies from pharmacist to pharmacist, from those that have vaccinated large numbers, to those that vaccinate only a limited number, and the maintenance of the skillset by individual practitioners. Two stakeholders believed that greater opportunity for self-assessment would be welcomed by the profession.

Emergency Medicines Training

One stakeholder believed it was a risk that RESMA was not required to be repeated annually, on the basis that responding to an emergency, and particularly in the context of the use of adrenaline autoinjectors in emergency circumstances, is not encountered regularly in practice.

Another stakeholder believed that the requirement to re-train every two years in the specific emergency medicine training programmes (Glucagon, GTN, Salbutamol) should be changed to self-assessment. This stakeholder believed that retraining every two years was questionable on the basis that pharmacists counsel patients on the administration of these medicines as part of routine pharmacy services.

Two stakeholders believed training in the above modules should be repeated annually, as these emergency situations are not encountered regularly in practice.

Certification

One stakeholder noted that the requirement to retain evidence of training can be difficult, particularly where a number of pharmacists are employed. This stakeholder noted it can be difficult to manage the variety of certificates for all pharmacist personnel. It was questioned whether this could be streamlined or whether a single certification process could be introduced.

MPharm Training

One stakeholder believed vaccination and emergency medicine training should be provided to all pharmacists as part of their undergraduate/MPharm training. Two stakeholders believed that the provision of these services by pharmacists should be mandatory from a public health perspective. Another stakeholder expressed a view that vaccination and emergency medicine delivery was something that was best initiated post qualification and in practice.

Inspection

One stakeholder queried whether the practice and delivery of vaccination services is something that the PSI might consider inspecting.

Linking Modular Training

Two training providers proposed linking refresher training to the mandatory CPR re-training requirements (i.e. that refresher training could be delivered at the same time as CPR training to facilitate/co-ordinate face to face sessions at one and the same time)

Online Forum

It was proposed by one stakeholder, that an online forum for pharmacists might be helpful to allow pharmacists to share experiences of delivering vaccination and emergency medicine services.

Operational matters

Stakeholders raised awareness to various difficulties/risks with the delivery of training programmes. These matters included difficulty with the accreditation processes for training programmes, access to online programme content after completing the training programme, difficulties navigating the IIOP website, vulnerabilities in training programme provision.

Survey

An email was issued to all Registered Pharmacists on 26 March 2019, inviting themto respond to an online survey on Vaccinations and Emergency Medicines Training Requirements from 26 March 2019 to 16 April 2019. The online survey comprised of 16 questions (Appendix 2). Responses could also be provided to the education@psi.ie email address. A reminder email was issued on 11 April 2019. A notice of the survey was also available on the Education and Training section of the PSI website.

Responses were provided anonymously.

Response to the Consultation

In total **n=375** responses were received to the survey. All responses were made via the online survey.

A copy of survey responses is included in Appendices 3-10.

Analysis: NVIVO 12

Free text responses, collected from the online survey, were analysed using NVIVO 12 qualitative analysis software. This software allows the user to qualitatively analyse and categorise data. Responses were categorised into recurrent themes using the software. Some responses contained more than one theme, and were categorised accordingly. It was not possible to categorise all responses, where a theme was not identifiable and/or where the theme was not recurring. In each question, where free text responses were reviewed, the most frequently occurring themes are presented.

All comments received from the online survey however are available for review at Appendices 3-10.

Analysis and Results of Survey

Survey Question 1: Participants were asked to respond to a question concerning data protection in order to participate in the survey.

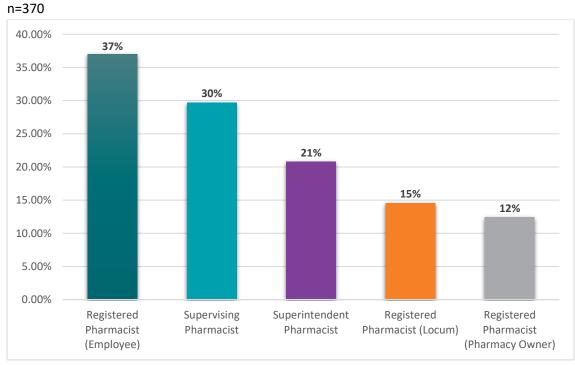
Survey Question 2:

Please indicate which categories best represents you.

The profile of respondents is indicated in the table and graph below

Registered Pharmacist (Employee)	137
Supervising Pharmacist	110
Superintendent Pharmacist	77
Registered Pharmacist (Locum)	54
Registered Pharmacist (Pharmacy Owner)	46

Table 1a: Breakdown of consultation respondents



^{*}Note, individuals identifying with multiple categories (=15%).

Figure 1b: Breakdown of consultation respondents (Survey Question 2)

Survey Question 3

Do you provide vaccination services?

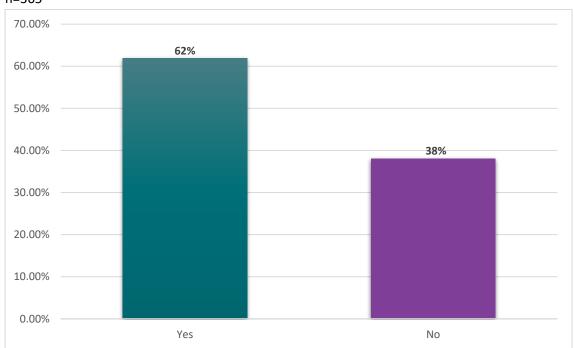
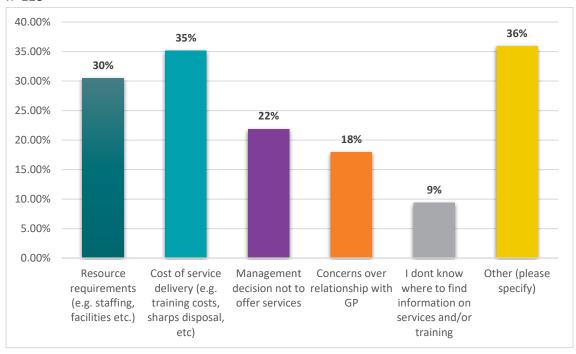


Figure 2: Do you provide vaccination services?

If no, why do you not provide vaccination services?

Survey responses are included at Appendix 3

n=128



^{*}Note some individuals answering multiple categories (=+50%).

Figure 11: Why do you not provide vaccination services?

Responses to 'other' (46 responses) were categorized under the following most popular themes:

Other, please specify	
Hospital/locum/non-patient facing role or newly qualified pharmacist	28
Training costs too high	3
Personal preference	3

Survey Question 5

Have you completed training in the delivery of any of the emergency medicines (adrenaline (RESMA), salbutamol, glyceryl trinitrate, glucagon, naloxone)?

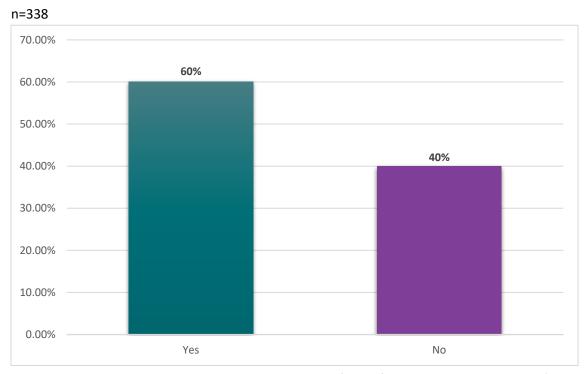
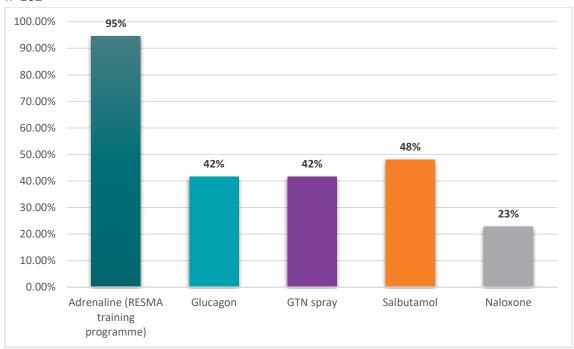


Figure 3: Have you completed training in the delivery of any of the emergency medicines (adrenaline (RESMA), salbutamol, glyceryl trinitrate, glucagon, naloxone)?

Which of the following emergency medicines have you undertaken training in?





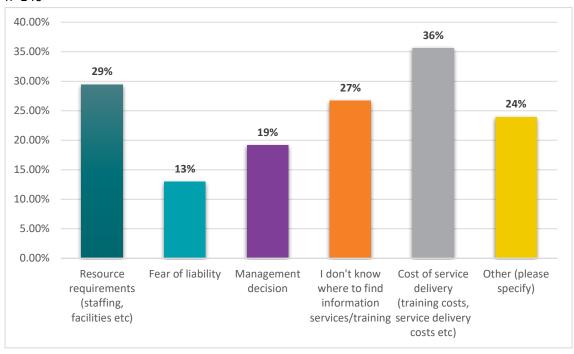
^{*}Note, due to some individuals answering multiple categories (+150%)

Figure 13: Which of the following emergency medicines have you undertaken training in?

If no, why do you not provide emergency medicine services?

Survey responses are included at Appendix 4.

n=146



^{*}Note, due to some individuals answering multiple categories (+48%).

Figure 12: Why do you not provide emergency medicine services?

Responses to 'other' (35 responses) were categorized under the following most popular themes:

Other (please specify)	
Hospital/locum/non-patient facing role or newly qualified pharmacist	16
Haven't had the opportunity or haven't had the time to do training	10
Service delivery not reimbursed	3
Belief that administration of emergency medicines is outside the role of a	2
pharmacist	

Do you find the PSI training requirements easy to follow and understand?

Survey responses are included at Appendix 5.

n=293

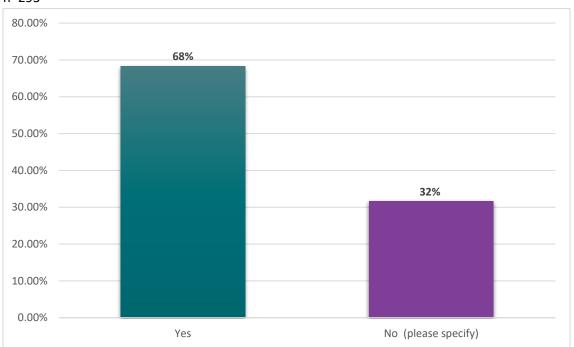


Figure 4: Do you find the PSI training requirements easy to follow and understand?

Responses to 'no, please specify' (93 responses) were categorized under the following most popular themes:

If no, please specify	
Confusing/unclear/complicated	58
Prefer streamlined training/too many modules/preference for single training system	11
Requirements for experienced vaccinator unclear	6
Difficulties with the IIOP website	2

Do you understand which pharmacists are considered 'experienced vaccinators' for the purpose of the vaccination training requirements?

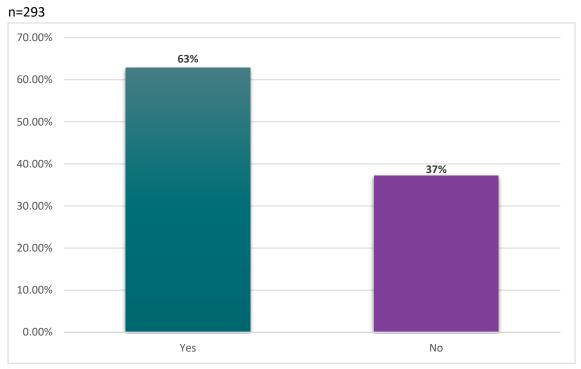


Figure 5: Do you understand which pharmacists are considered 'experienced vaccinators' for the purpose of the vaccination training requirements?

Pharmacists are required to repeat training in the following programmes at defined intervals, as set out below. Do you agree with these re-training intervals?

n=279

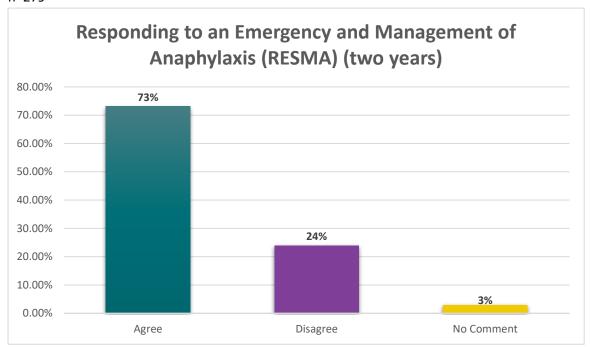


Figure 6a: Do you agree a pharmacists should be required to repeat RESMA training every two years?

n=279

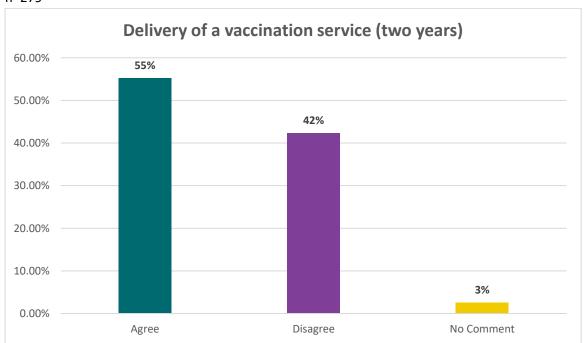


Figure 6b: Do you agree a pharmacists should be required to repeat delivery of a vaccination service training every two years?

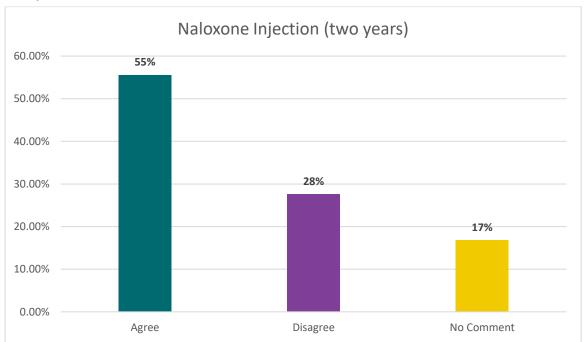


Figure 6c: Do you agree a pharmacists should be required to repeat Naloxone injection training every two years?



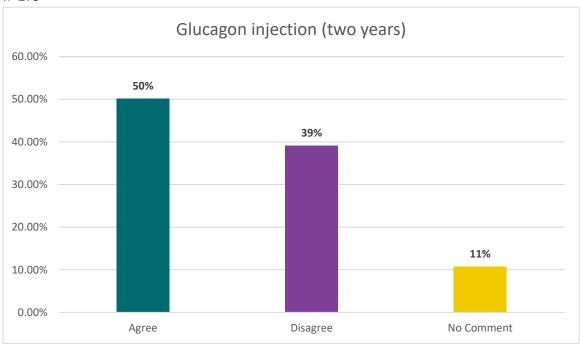


Figure 6d: Do you agree a pharmacists should be required to repeat Glucagon injection training every two years?

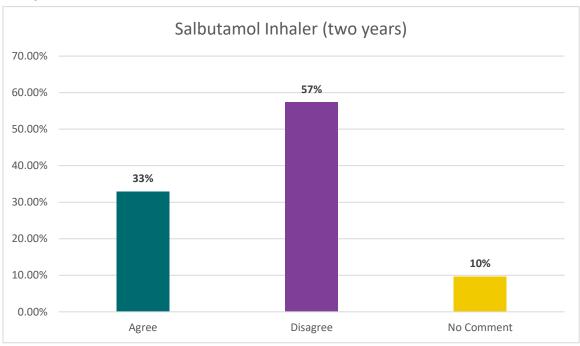


Figure 6e: Do you agree a pharmacists should be required to repeat Salbutamol inhaler training every two years?



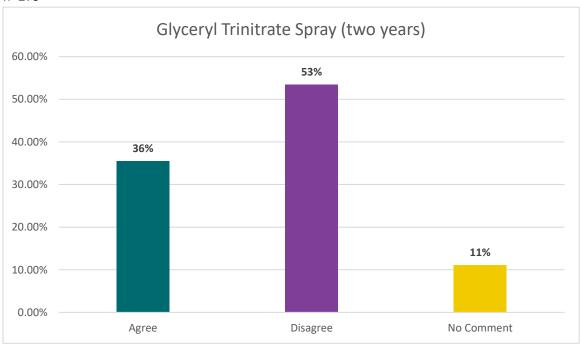


Figure 6f: Do you agree a pharmacists should be required to repeat Glyceryl Trinitrate spray training every two years?

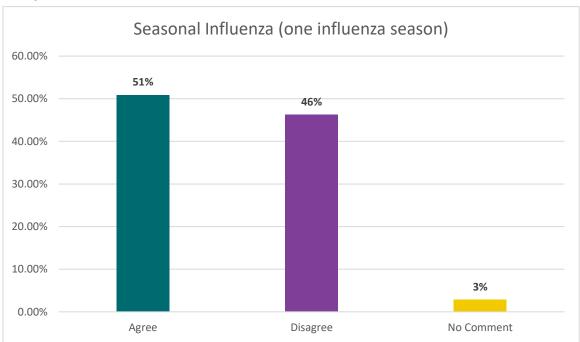


Figure 6g: Do you agree a pharmacists should be required to repeat seasonal influenza training every influenza season?



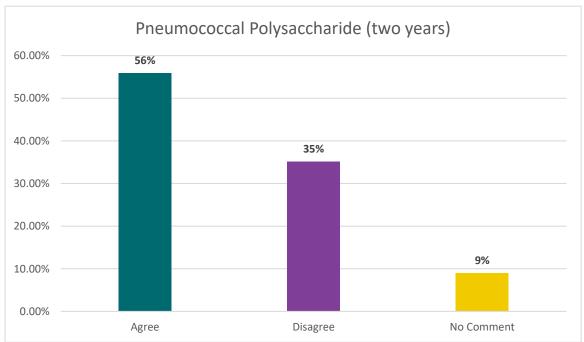


Figure 6h: Do you agree a pharmacists should be required to repeat Pneumococcal Polysaccharide training every two years?

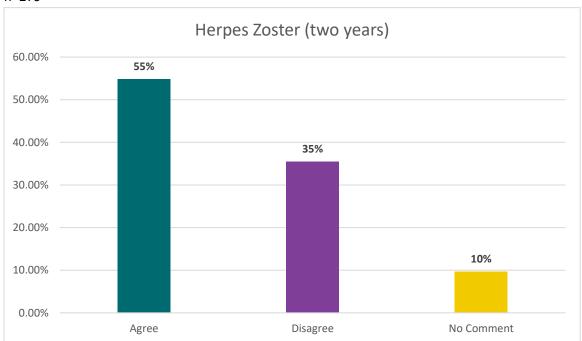


Figure 6i: Do you agree a pharmacists should be required to repeat Herpes Zoster training every two years?

If you disagree with the frequency that any of the above training programmes must be repeated (Question 7), please provide the name of the programme(s) and how often you believe re-training should be undertaken? e.g. every year, every 3 years, every 5 years, self-assessment.

Survey responses are included at Appendix 6.

A total of 170 comments were received to this question. The comments were categorized into the following most popular themes

General Comments (non-training programme specific)	
5 years	30
Self assessment	26
3 years	15
3-5 years	5
No re-training requirements	5

Emergency Medicines Feedback

Salbutamol	
5 years	15
Self assessment	12
No re-training requirements	3

Glucagon	
5 years	7
Annual Re-training	3
Self assessment	2
3 years	2

Glyceryl Trinitrate	
5 years	14
Self assessment	10
No re-training requirements	3

Vaccination Feedback

Delivery of A Vaccination Service	
5 years	6
3 years	3
4 years	2
Self assessment	2

Influenza Training Module	
2 years	9
5 years	5
Self assessment	4
3 years	4

Herpes Simplex & Pneumococcal	
3 years	4
5 years	2
annually	2
No retraining	2

Pharmacists who vaccinate continuously, using the same injection route, can self-assess whether they need to repeat training in the Medicines Administration (Parenteral) Training Programme. Pharmacists who have not vaccinated in the past 12 months (or influenza season) or have not been trained in the last 12 months, are required to repeat the training programme. Do you agree with the current re-training requirements, as set out above?

Survey responses are included at Appendix 7

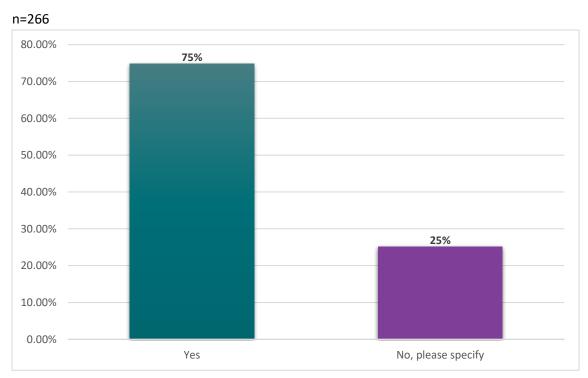


Figure 7: Do you agree with the current re-training requirements, as set out above?

Responses to 'no, please specify' (67 responses) were categorized under the following most prevalent themes:

No, please specify	
Concern that short breaks in practice eg. Career break, maternity leave may	13
mean pharmacists have to re-take training	
Extend to two year break in practice	10
Self-assessment	12

If you have practised your injection technique on patients each year/influenza season, what type of re-training do you believe should be required?

Survey responses are included at Appendix 8.

n=261

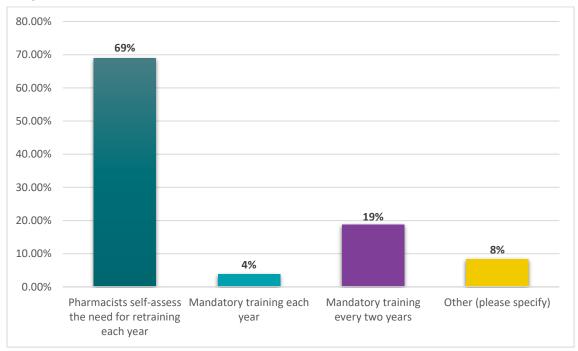


Figure 8: If you have practised your injection technique on patients each year/influenza season, what type of re-training do you believe should be required?

Responses to 'other, please specify' (22 responses) were categorized under the following most prevalent themes:

Other, please specify	
Online and/or refresher training to be made available	4
5 years	4
3 years	4
3-4 years	3
Should always be self-assessment	3

If you have not practised your injection technique on patients in the past year/season, what type of training do you believe should be required?

Survey responses are included at Appendix 9.



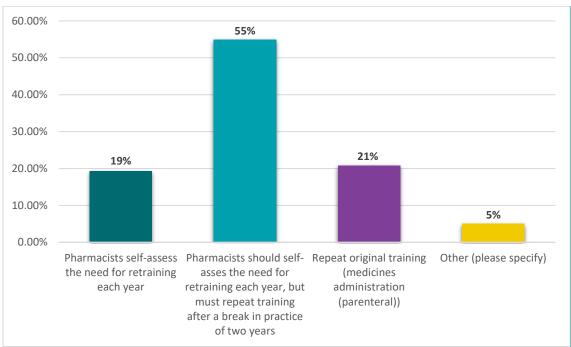


Figure 9: If you have not practised your injection technique on patients in the past year/season, what type of training do you believe should be required?

Responses to 'other, please specify' (13 responses) were categorized under the following most prevalent themes:

Other, please specify	
Would welcome online refresher option	4
Pharmacist should repeat training after a 3 year break in practice	2
Pharmacist should have an alternative pharmacist assess practice	1
Self-declaration to be made by pharmacist	1

Training programmes for the delivery of vaccination and emergency medicines services are available as online training programmes or 'face to face' training (mandatory attendance at a 'live' event) Do you agree that the delivery method (i.e. online/face to face) for each training programme is suitable?

n=262

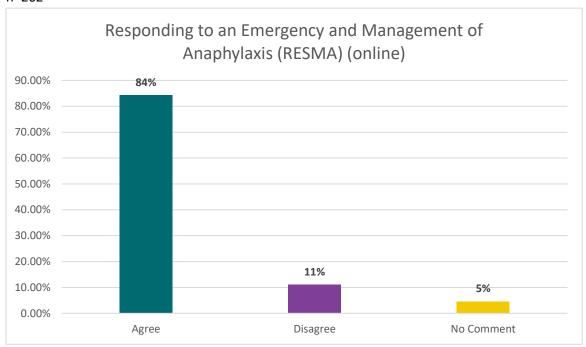


Figure 10a: Do you agree that the delivery method (i.e. online/face to face) for RESMA training is suitable?

n=262

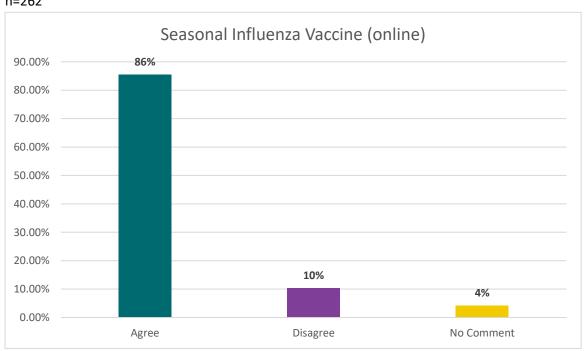


Figure 10b: Do you agree that the delivery method (i.e. online/face to face) for the seasonal influenza vaccine training is suitable?

n=262

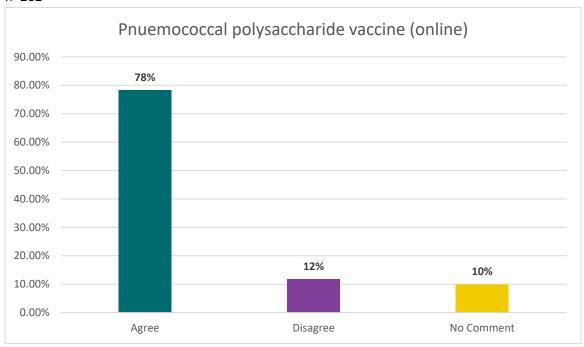


Figure 10c: Do you agree that the delivery method (i.e. online/face to face) for the Pnuemococcal Polysaccharide vaccine training is suitable?

n=262

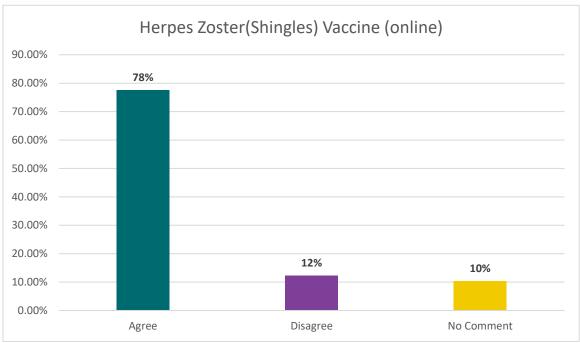


Figure 10d: Do you agree that the delivery method (i.e. online/face to face) for the Herpes Zoster (Shingles) vaccine training is suitable?

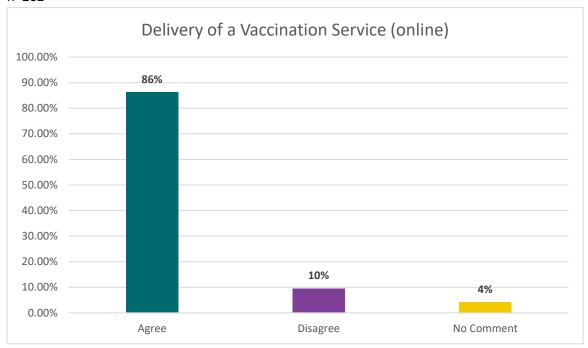


Figure 10e: Do you agree that the delivery method (i.e. online/face to face) for the delivery of a vaccination service training is suitable?

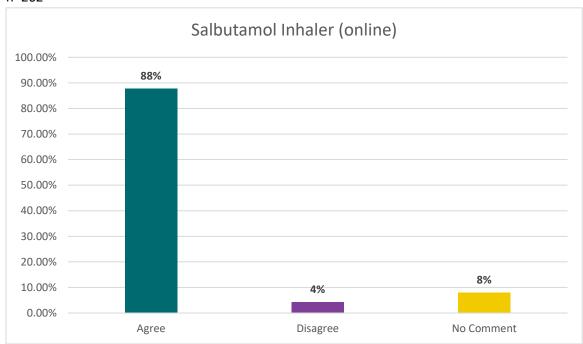


Figure 10f: Do you agree that the delivery method (i.e. online/face to face) for the Salbutamol inhaler training is suitable?

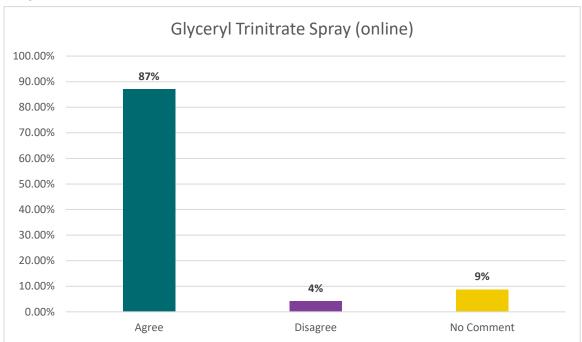


Figure 10g: Do you agree that the delivery method (i.e. online/face to face) for the Glyceryl Trinitrate Spray training is suitable?

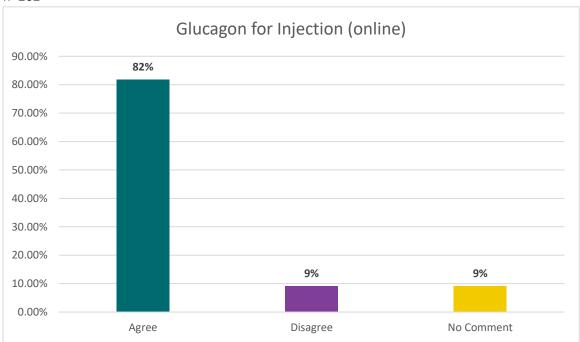


Figure 10h: Do you agree that the delivery method (i.e. online/face to face) for the Glucagon Injection training is suitable?

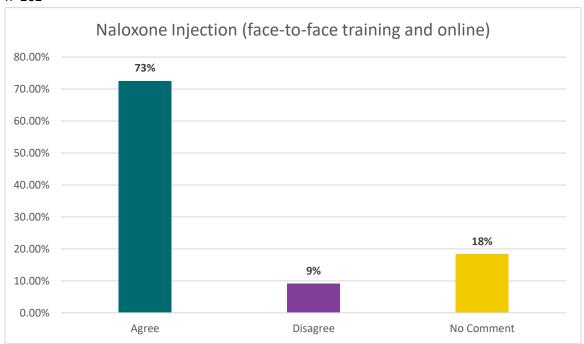


Figure 10i: Do you agree that the delivery method (i.e. online/face to face) for the Naloxone Injection training is suitable?

Do you have any other comments or suggestions as to how the training requirements for the delivery of vaccination and emergency medicines services can be improved, in a way that assures patient safety and access to emergency medicines and vaccination services by patients?

Survey responses are included at Appendix 10.

72 responses were recorded to this question. Responses were categorized under the following most prevalent themes:

Other, please specify	
Streamline/reduce/improve training requirements	19
Improved reimbursement structure for services and/or reduced training costs	13
Increase availability of online training/refresher courses	7
Improved communication of requirements	6
Expand vaccination services/location for service delivery	5
Allow for greater self-assessment	5

Survey Discussion

Questions 1-7

Answers to the initial questions of the survey identified the profile of survey respondents, with the highest number of respondents identifying as employee, supervising and superintendent pharmacists. Approximately 60% identified themselves as providing vaccination and/or emergency medicine services. The reasons most frequently cited for not providing these services were:

- Resource requirements (staffing, facilities etc)
- Cost of service delivery (e.g. training costs, service delivery costs etc)

In relation to emergency medicines services, respondents also noted that they were unaware where to find information on these services and training. Some respondents noted that they did not provide these services due to the locum nature of their role, their role in hospital, or that they were newly qualified.

Questions 8 - 9

68% of respondents believed that the PSI training requirements were easy to follow and understand. 32% did not. 93 respondents elaborated further in free text comments. A significant majority of these respondents (58/93) believed the requirements to be confusing, unclear or complicated. Words used to describe the requirements included the terms 'bureaucratic', 'legalistic', 'repetitive', 'dense', 'vague', 'ambiguous', 'wordy'. 37% of respondents said they did not understand which pharmacists are considered 'experienced vaccinators'.

Questions 10-11

Responses to Question 10, concerning the intervals for re-training on each specific training programme, varied.

The training programme with the highest satisfaction rate for the retraining interval was for the RESMA programme (73% agree: 24% disagree). This programme is required to be repeated every two years. Following successful completion of this programme, together with CPR, pharmacists may administer adrenaline by way of auto-injector.

The training programmes with the greatest dissatisfaction rate for the retraining interval were the training programmes for the administration of the following medicines:

Training Programme	Agree (%)	Disagree (%)
Salbutamol	33	57
Glyceryl Trinitrate	36	53

Retraining in these programmes is required to be undertaken every 2 years.

Programmes with the lowest margin of satisfaction to dissatisfaction were:

Training Programme	Agree	Disagree	Difference
	(%)	(%)	(%)
Seasonal influenza	51	46	5
Glucagon	50	39	11
Delivery of a Vaccination	55	42	13
Service			

Retraining in these programmes is required to be undertaken every 2 years.

The majority of those respondents who provided comments, indicating their dissatisfaction with re-training intervals, wished retraining requirements to be extended to 5 years, 3 years or to be on a self-assessment basis.

Questions 12 -14

Responses in respect of the re-training requirements for the Medicines Administration (Parenteral) training programme were largely positive.

75% of respondents were in agreement with the current re-training requirements for the Medicines Administration (Parenteral) training programme. Amongst the 25% who were not in agreement with the current standards, respondents expressed concern that short breaks in practice e.g. travel, maternity leave, illness leave, may necessitate re-training the following year. Others believed re-training should always be on a self-assessment basis.

Where pharmacists had practiced their injection technique in the past year/season, 69% agreed that re-training should be on a self-assessment basis.

Opinions varied on what re-training should be required if a pharmacist had not practised injection technique in the previous year/vaccination season: 55% believed pharmacists should self-assess, but must repeat training after a two year break in practice, 21% believed

pharmacists should be required to repeat training, 19% pharmacists believe pharmacists should self-assess the requirement for re-training.

Question 15

Positive response rates were received to question 15, concerning the delivery method of each specific training programme (e.g. online or face to face). Respondents indicated satisfaction rates of between 78-88% with the online route of delivery for training programmes.

Question 16

72 responses were received to the final survey question seeking any other comments or suggestions as to how the training requirements for the delivery of vaccination and emergency medicines services can be improved, in a way that assures patient safety and access to emergency medicines and vaccination services by patients. Responses and suggestions varied. Calls for enhanced reimbursement structures, training programme simplification and improved communication, together with calls for the expansion of services were most common. All responses are available at Appendix 10.

Benchmarking Analysis

The Review Group considered the training requirements for immunisation and vaccination services in 8 jurisdictions as part of the review project. A summary, with relevant hyperlinks is detailed in the table below.

Region	Requirements
UK	NHS England has determined that pharmacists providing the Flu Vaccination Service need to attend face-to-face training for both injection technique and basic life support at least every three years.
	A Declaration of Competence approach (developed by the Community Pharmacy Competence Group) has been agreed by NHS England, NHS Employers and PSNC as being the way by which pharmacists providing the Flu Vaccination Service can demonstrate their competence to the contractor who is contracted to provide the service and to NHS England.
	https://psnc.org.uk/services-commissioning/advanced-services/flu-vaccination-service/flu-vaccination-training/
Canada - Ontario	 In order to administer injections in Ontario, pharmacists must: Successfully complete an Ontario College of Pharmacists (OCP) - approved course for pharmacist injection training, Maintain valid certification in CPR and First Aid, Before administering injections pharmacists must register their training with the college. Once the training is registered, it will appear on the pharmacist's record and can be validated by patients, public health units and other health professionals. http://www.ocpinfo.com/practice-education/practice-tools/support-materials/injection-training/
Canada - Alberta	Pharmacists who have been authorised to administer drugs by injection are required to complete a <u>Professional Declaration</u> annually as part of their registration renewal indicating that they:

- 1. Have and will maintain valid CPR
- 2. Have administered an injection within the past three years; and
- 3. Have, within the past 12 months, reviewed the <u>Standards of Practice for Pharmacists and Pharmacy Technicians</u> and have in place the required policies and procedures for handling emergencies.

Pharmacists who are unable to sign the professional declaration will have their authorisation to administer injections cancelled. Pharmacists must re-qualify for the authorisation to administer drugs by injection by completing an accredited training program and reapplying for the authorisation.

https://abpharmacy.ca/administering-drugs-injection

New Zealand

Authorised vaccinator or pharmacist vaccinator status is valid for two years from the date of the initial vaccinator training course, but it can be renewed two-yearly if the vaccinator meets the requirements specified below.

To renew their vaccinator status, all vaccinators are required to:

- 1. During the past two years, have attended a vaccinator update course that meets the current Vaccinator Update Course Standards and have evidence of attendance,
- 2. Have a summary of their immunisation practice over the past 12 months,
- 3. Have evidence of a current practicing certificate
- 4. Have evidence of a current CPR certificate

Authorised vaccinators

Prior to the expiry of their authorised vaccinator status, authorised vaccinators are required to apply for renewal of their authorisation to their local medical officer of health and submit all relevant documentation (i.e., immunisation update, CPR certificates and immunisation summary).

	Pharmacist vaccinators
	Prior to the expiry of their pharmacist vaccinator status, pharmacist vaccinators should notify Pharmaceutical Society of New Zealand when they have completed the requirements specified above.
	https://www.health.govt.nz/system/files/documents/publications/immunisation-handbook-2017-2nd-ed-mar18-v4.html#Appendix4
Australia –	To maintain status as an authorised pharmacist immuniser, pharmacists must undertake 6 hours of CPD specific to immunisation
Tasmania	each year. Annual renew of authorisation is dependent on maintaining registration as a pharmacist and providing evidence of CPD.
	https://www.guild.org.au/ data/assets/pdf file/0020/52058/pharmacist-vaccination-in-tas-explained-dec17.pdf
Australia -	Pharmacists must ensure that they undertake yearly Continuing Professional Development (CPD) in the area of immunisation to
Queensland	ensure they are up to date in their practice. Where the time elapsed since initial practical training is more than 12 months and where a pharmacist has not administered at least two (2) subcutaneous measles vaccines in the preceding 12 months, practical refreshment of this subcutaneous injection technique and review of the measles recommendations, contraindications, precautions and possible adverse events as specified in the Australian Immunisation Handbook must be undertaken before administration of a measles-containing vaccine. In monitoring compliance with this QPV standard, officers authorised under the Queensland Health Act 1937 may request evidence that CPD requirements are met and that first aid, CPR and anaphylaxis qualifications are current.
	https://www.health.qld.gov.au/ data/assets/pdf file/0016/444130/standard-pharmacy-vaccination.pdf
Australia – Victoria	Pharmacists must complete an 'Immuniser Programme of Study', have recency of practice and CPD in immunisation (as defined from time to time by the Pharmacy Board of Australia) and hold a current first aid cert (validity 3 years) and current CPR certificate (to be updated annually).
	https://www2.health.vic.gov.au/public-health/immunisation/immunisers-in-victoria/pharmacist-immunisers/guidelines
	A pharmacist must hold general registration with the pharmacy board of Australia with no conditions or undertakings which may limit delivery of clinical services directly to patients have completed an accredited training course and current certificate

Australia –	Australasian Society of Clinical Immunology and Allergy (ASCIA) 'Anaphylaxis e-training for pharmacists', current first aid certificate,
Northern	current CPR certificate, consumers should be able to observe copies of these certificates if needed.
Territory	https://digitallibrary.health.nt.gov.au/prodjspui/bitstream/10137/1302/1/Immunisation%20information%20for%20pharmacists.pdf

Conclusions and Recommendations

The Review Group, in line with the project plan, were tasked to:

- 1. Receive and evaluate feedback on the current vaccination and emergency medicines training system, including the training requirements, from stakeholders having an interest in the provision, planning and participation of training programmes.
- 2. Examine if or how the training system might be optimised with respect to
 - a. scheme of delivery of training programmes (e.g. online or face to face)
 - b. training interval requirements

In the context of

- i. Assuring patient safety and public protection in the delivery of services
- ii. Creating a robust and flexible training system that appeals to and facilitates pharmacists' uptake of these services for the public
- 3. Make recommendations to Council at their meeting on June 20th 2019, which will specifically include recommendations as to
 - Whether the scheme of delivery of training programmes is optimal (e.g. online or face to face)
 - Whether the training interval requirements are optimal, having regard to (i) and (ii) above.
 - Advise the Council on the feedback from stakeholders involved in providing and undertaking training, and if additional areas for optimisation might arise.

The Review Group welcomed the considerable level of response and engagement from all stakeholders and participants within the project and survey.

The Review Group noted a number of positive outcomes from the engagement and also a number of recurring themes, which the Group believes may be addressed in a number ways and it makes the following recommendations:

1. Retain Online Format for Training Modules

The Review Group noted that pharmacists and stakeholders welcomed the online format of training programmes. In particular, pharmacists indicated high satisfaction rates (between 78-88%) with the current scheme/route of delivery for training programmes (e.g. face to face/online formats). The Review Group recommends that no change would be made to the scheme of delivery for these programmes.

2. Improve Communication:

A key theme arising from stakeholder engagement and pharmacist survey was the need for improved communication of PSI training requirements. On the basis of the feedback received, the Review Group believe communication could be improved in a number of ways:

- (i) at the simplest level, through review of the website, alignment of training programme nomenclature, provision of a diagrammatic algorithm, and the use of NALA principles to review language and content.
- (ii) To unify the training requirements for 'experienced vaccinators' (see point 4 below)
- (iii) It was noted by the Review Group that greater potential to improve communication, may be achieved through improved IT solutions.

3. Proposed Changes to Training Intervals

The Review Group reviewed those training programmes for which pharmacists indicated dissatisfaction or which had the lowest margin of satisfaction to dissatisfaction ratios, in respect of re-training intervals. These training programmes are:

	Training Programme	Interval between training	Agree (%)	Disagree (%)	Difference (%)
1	Salbutamol	2 years	33	57	24
2	Glyceryl Trinitrate	2 years	36	53	17
3	Glucagon	2 years	50	39	-11
4	Delivery of a Vaccination	2 years	55	42	-13
	Service				
5	Seasonal influenza	Annually	51	46	-5

Programmes 1-3 (Salbutamol, Glyceryl Trinitrate, Glucagon)

Consultation and advice was sought from The Pre-Hospital Emergency Care Council (PHECC). The Pre-Hospital Emergency Care Council (PHECC) protects the public by independently specifying, reviewing, maintaining and monitoring standards of excellence for the safe provision of quality pre-hospital emergency care. Kathleen Walsh, Programme Development Officer at PHECC met with members of the Review Group. Kathleen Walsh noted the benefits in refreshing training every two years, particularly in the context of the administration of emergency medicines, which are situations that infrequently arise. She noted that, in the cases where salbutamol, glyceryl trinitrate or glucagon may be administered, the situations may be life-threatening. While appreciation and respect is given to the knowledge of pharmacists in the context of medicines, given the nature of these emergency situations, the skills required for the assessment of the presenting patient, and management of the patient until emergency services present, the Review Group believe that the requirement to repeat training every two years should be retained for these training programmes.

Programme 4: Delivery of a Vaccination Service

On the basis that pharmacists who continually provide a vaccination service are allowed to self-assess their need to undertake retraining on the skills aspect of service delivery (Medicines Administration (Parenteral) Training Programme), and given the additional controls required by PSI Guidance on the Provision of Vaccination Services by Pharmacists in Retail Pharmacy Businesses, which necessitates that superintendent pharmacists assure that supervised practice runs are carried out regularly, and at a minimum annually, the Group believes that the bi-annual training requirement for this training programme should be reviewed and changed to self-assessment. The Group recommends that pharmacists who have not vaccinated in the past 12 months (or influenza season) are required to repeat the Delivery of a Vaccination Service training programme.

Programme 5: Seasonal Influenza

On the basis that changes occur on a seasonal basis to the type and composition of this vaccine annually, the Review Group proposes that the annual re-training requirement for this training module is retained.

While some respondents believed that this module should only cover updates to the vaccine annually, this would necessitate the delivery of two influenza modules: one, for those who are training for the first time, and another training programme for those that have vaccinated previously. This would increase complexity to the training algorithm and would introduce additional costs.

4. Experienced Vaccinators

In light of stakeholder feedback, and in an effort to reduce misunderstanding regarding training requirements, the Review Group recommend that training requirements for all vaccinators are consistent. To that end, the Group proposes, that all vaccinators, including those who completed training prior to 2016, and fell under the category 'experienced vaccinators', are encouraged to self-assess the need to undertake the Medicines Administration (Parenteral) Training Programme. 'Experienced vaccinators' who have had a break in injection technique, or self-assess a need for retraining, should undertake this training course for the first time. This would mean that all vaccinators are subject to the same training requirements. The Review Group believe that this change should be communicated clearly to the profession and the term 'experienced vaccinators' should no longer be used.

5. Medicines Administration (Parenteral) Training Programme

The Group reviewed and considered the feedback in relation to the Medicines Administration (Parenteral) Training Programme.

The survey results provided a clear indication that 75% of respondents agreed with the current re-training requirements. In particular 69% agreed that pharmacists should be allowed to reassess the need to complete retraining where there had been no break in practice in the previous 12 months/vaccination season.

However, the Review Group noted that there was less agreement with the requirement to repeat the Medicines Administration (Parenteral) training programme in circumstances where a pharmacist has not practiced injection technique in the previous 12 months/ influenza season. Specifically 55% of respondents believed pharmacists should self-assess the need for retraining each year, but must repeat training after a 2 year break in practice: 21% believed the original training should be repeated following a 12 month break in practice: 19% believed pharmacists should self-assess the need for training indefinitely. The Review Group also noted an appetite for a shorter 'refresher training' programme to be available.

In view of the above, the Review Group recommends that the current training requirements should be retained for 2019/2020 season (75% of respondents in agreement with current training requirements) but that further advice and expertise should be sought, by way of Expert Group or Expert opinion, on reviewing the training requirements for this module, as a whole, and to include what training requirements should apply to those pharmacists who may have had a break in practice of injection technique for 12 months/vaccination season, and as to the appropriateness of a shorter 'refresher training' programme. The Review Group recommends that this advice should be sought in advance of June 2020.

6. Self-Declaration

Following on from the benchmarking exercises carried out, the Review Group notes that many other pharmacy bodies in other jurisdictions retain greater oversight that pharmacists have undertaken up-to-date training for the delivery of vaccination services. This is achieved through self-declaration systems, online data registries and registration systems (see page 38-41). While more complex systems would require legislative change, the Review Group believe the introduction of a voluntary self-declaration system in Ireland would be possible. It is hoped this would provide greater public assurance and help pharmacists to assess and demonstrate that they have completed the requisite training to deliver vaccination or emergency medicine services annually. A proposed self-declaration form is included at Appendix 11. The Review Group recommends that this self-declaration system is introduced for the 2019/2020 vaccination season.

7. Disincentives to Service Provision

While the Review Group noted that over 1000 pharmacists have completed vaccination training modules to date, the Group noted a considerably lower uptake by pharmacists of the emergency medicines training programmes (see page 5). The survey results note that the

primary disincentive to vaccination and emergency medicine service provision is reported to be the costs associated with service delivery, training and resourcing.

The Review Group believes that mechanisms, which could be offered to improve uptake of these training programmes, should be explored with stakeholders to include greater communication to pharmacists that many of the training courses in emergency medicines can be completed, free of charge, through the IIOP website. Additional methods, such as recognition of pharmacies providing such services may also be helpful and assist in creating greater availability of vaccination and emergency medicines to the public.

8. Additional Themes

A summary of all feedback received has been provided in this report for Councils attention. While the Review Group has made specific recommendations above, it was noted that other themes emerged from the engagement exercises including calls for the expansion of vaccination services, the inclusion of vaccination and emergency medicine training as part of the current MPharm programmes, and improved website resources. The Review Group acknowledges these themes and is cognisant of these in on-going PSI work.

Summary

Recommendations

- 1. To retain the current scheme of delivery of training programmes e.g. face to face, online formats
- 2. To improve PSI's communications on Vaccination and Emergency Medicine Training Requirements
- 3. (i)To amend the interval of training for the Delivery of A Vaccination Service Training Programme from every 2 years to self-assessment. Where a pharmacist has not provided vaccination services for 12months/vaccination season, there is a requirement to repeat the programme.
 - (ii) To maintain the intervals of training for all other training programmes
- 4. To unify the training requirements for all pharmacists and remove the caveat for 'experienced vaccinators'.
- 5. (i) To retain the current training requirements for the Medicines Administration (Parenteral) Training Programme for 2019/2020 season.
 - (ii) To commission further research and expertise on the training interval requirements for the Medicines Administration (Parenteral) Training Programme
- 6. To introduce an annual self-declaration system for pharmacists to assure that pharmacists have declared competence and that all training has been completed.
- 7. PSI to explore, mechanisms to promote the uptake of vaccination and emergency medicine service provision among pharmacists.

APPENDICES

Appendix 1: Public Consultation Survey Questions

Question 1: Participants were asked to respond to a question concerning data protection in order to participate in the survey.

Question 2:

Please indicate which categories best represents you. (one or more answers may apply)

Registered Pharmacist (Employee)
Supervising Pharmacist
Superintendent Pharmacist
Registered Pharmacist (Locum)
Registered Pharmacist (Pharmacy Owner)

Question 3:

Do you provide vaccination services?

Yes	
No	

Question 4:

If no, why do you not provide vaccination services? (one or more answers may apply)

Resource requirements (e.g. staffing, facilities etc)
Cost of Service Delivery (e.g. training costs, sharps disposal, etc)
Management decision not to offer services
Concerns over relationship with GP
I don't know where to find information on services and/or training
Other (please specify)

Question 5:

Have you completed training in the delivery of any of the emergency medicines (adrenaline (RESMA), salbutamol, glyceryl trinitrate, glucagon, naloxone)?

Yes	
No	

Question 6:

Which of the following emergency medicines have you undertaken training in? (one or
more answers may apply)	

Adrenaline (RESMA training programme)
Glucagon
GTN spray
Salbutamol
Naloxone

Question 7:

If no, why do you not provide emergency medicine services? (one or more answers may apply)

Resource requirements (e.g. staffing, facilities etc)		
Fear of liability		
Management decision not to offer services		
Cost of service delivery (Training costs, service delivery costs etc)		
I don't know where to find information on services and/or training		
Other (please specify)		

Question 8

Do you find the PSI training requirements easy to follow and understand?

Yes	
No, please specify	

Question 9

Do you understand which pharmacists are considered 'experienced vaccinators' for the purpose of the vaccination training requirements?

Yes		
No		

Question 10

Pharmacists are required to repeat training in the following programmes at defined intervals, as set out below. Do you agree with these re-training intervals?

Training Programme	Interval	Yes	No	No comment
RESMA	2 years			
Delivery of a Vaccination Service	2 years			
Naloxone Injection	2 years			
Glucagon	2 years			
Salbutamol	2 years			
Glyceryl Trinitrate	2 years			
Seasonal influenza	annually			
Pneumococcal Polysaccharide	2 years			
Herpes Zoster	2 years			

Question 11

If you disagree with the frequency that any of the above training programmes must be repeated (Question 10), please provide the name of the programme(s) and how often you believe re-training should be undertaken? e.g. every year, every 3 years, every 5 years, self-assessment.

Question 12

Pharmacists who vaccinate continuously, using the same injection route, can self-assess whether they need to repeat training in the Medicines Administration (Parenteral) Training Programme. Pharmacists who have not vaccinated in the past 12 months (or influenza season) or have not been trained in the last 12 months, are required to repeat the training programme. Do you agree with the current re-training requirements, as set out above?

Yes	
No, please specify	

Question 13

If you have practised your injection technique on patients each year/influenza season, what type of re-training do you believe should be required?

Mandatory training annually
Mandatory training biannually
Pharmacist self-assess the need for retraining each year
Other, please specify

Question 14

If you have not practised your injection technique on patients in the past year/season, what type of training do you believe should be required?

Pharmacist self-assess the need for retraining each year
Pharmacists should self-assess the need for retraining each year, but must repeat training
ager a break in practice of two years
Repeat original training (Medicines Administration (Parenteral))
Other, please specify

Question 15

Training programmes for the delivery of vaccination and emergency medicines services are available as online training programmes or 'face to face' training (mandatory attendance at a 'live' event) Do you agree that the delivery method (i.e. online/face to face) for each training programme is suitable?

Training Programme	Method	Yes	No	No comment
RESMA	online			
Delivery of a Vaccination Service	online			
Naloxone Injection	Online and face to face			
Glucagon	online			
Salbutamol	online			
Glyceryl Trinitrate	online			
Seasonal influenza	online			
Pneumococcal Polysaccharide	online			
Herpes Zoster	online			

Question 16

Do you have any other comments or suggestions as to how the training requirements for the delivery of vaccination and emergency medicines services can be improved, in a way that assures patient safety and access to emergency medicines and vaccination services by patients?

Appendix 2: Project Scope

PROJECT SCOPE

PROJECT TITLE	Vaccinations and Emergency Medicines Training Review 2019
PROJECT SPONSOR	Damhnait Gaughan
PROJECT MANAGER	Cora O'Connell
	Padraig Corbett Ciara Dooley Conor O'Leary
DATE CREATED	January 2019

PROJECT BACKGROUND

S.I. No. 449/2015 - Medicinal Products (Prescription and Control of Supply) (Amendment) (No. 2) Regulations 2015 came into being at the end of 2015. This legislation provided for pharmacists to deliver certain vaccinations and emergency medicines where approved training was undertaken.

Following a targeted consultation process, a modular training structure was introduced in 2016 for pharmacists. The training programmes equip pharmacists with the necessary skills and knowledge to safely administer these medicines and vaccines to patients. The modular structure was designed to provide a streamlined system of training which prevents pharmacists having to duplicate training in areas which may be relevant to a number of vaccines or emergency medicines. Training is provided through face to face, online or a combination of face to face and online methods.

In June 2017, the Council of the PSI approved the validity periods for training programmes following a consultation process. Certain training programmes were assigned validity periods of up to 2 years. Pharmacists are allowed to self-assess their need to retrain in the parenteral medicines administration training programme, with certain exceptions where training in this programme is required to be repeated.

Following on from feedback received in 2018, and in light of the fact that many training programmes fall out of the current accreditation in 2020, it was agreed by the Professional Development and Learning Committee (September 2018), that 2019 would prove timely to conduct a review of the training system and its requirements, to evaluate and inform plans for improvement, where and if issues may arise, to assure the quality and appropriateness of training for the delivery of these services.

PROJECT SCOPE

- 1. to receive and evaluate feedback on the current vaccination and emergency medicines training system, including the training requirements, from stakeholders having an interest in the provision, planning and participation of training programmes.
- 2. To examine if or how the training system might be optimised with respect to
 - a. scheme of delivery of training programmes
 - b. Training interval requirements

In the context of

- i. Assuring patient safety and public protection in the delivery of services
- ii. Creating a robust and flexible training system that appeals to and facilitates pharmacists' uptake of these services for the public
- 3. To make recommendations to Council at their meeting on June 22nd 2019, which will specifically include recommendations as to
 - Whether the scheme of delivery of training programmes is optimal
 - Whether the training interval requirements are optimal, having regard to (i) and (ii) above.
 - Advise the Council on the feedback from stakeholders involved in providing and undertaking training and if additional areas for optimisation might arise.

Timeline

June 6th 2019

Appendix 3: Survey Question 4

Q4. Why do you not provide vaccination services?

	The pharmacy does provide the influenza vaccine but I have not done the course to
	administer it. The pharmacy owner has decided to only pay for 1 pharmacist to do the
1	course
2	Poor uptake in area
3	I have no interest in giving injections. If I did I would be a doctor.
4	Hospital
5	Newly qualified
	The current fee makes provision of the service uneconomic
	As I only work two days per month in community pharmacy my employer does not feel they
	would get the 'return on investment' of my training.
	Vaccination service offered in hospital by occupational health
9	working in many different loations
	Gp in area expressed that their job was in providing this service
	Awaiting a refresh training course since September 2018. Have been in contact with the training provider and they only provide the training during Summer/Autumn which restricts upskilling at any other time of year
12	nurses and doctors on site to provide emergency treatment
13	I locum infrequently and have not had training opportunity
14	I would not know the best means to go about training on this as a locum
15	Not in a patient facing role
16	Lack of confidence
17	Squemish
10	Although pharmacists and GPs provide the same service and are paid the same, pharmacists have to undergo training and pay for sharps disposal and epipens. Taking part in a such unequal services would be an endorsement of a second class status
	·
	Time to allocate to it
20	I'm a locum
21	Employed as a hospital pharmacist where these services are not required as part of the hospital pharmacy service
	Locum only occasionally
	work in a hospital
	Regular staff vaccinate in preference to Locum vaccibating
Z+	When I was full-time in community, I never got vaccination training because of a mix of
	#1,3,4 above. Now I'm mostly out of community, I don't want to get vaccine training
	because I don't want to provide the service in a Locum situation.
26	Work in hospital
27	I work as a hospital pharmacist
28	Not a community pharmacist
29	Work in hospital
30	newly qualified
31	CONSULTING NOT TO PSI REQUIREMENTS FOR VACCINATION
32	Work in a hospital
	·

	The local GP has voiced objections to the provision of pharmacy providing vaccination service. Geographical location with respect to accessing emergency services in the event of anaphylaxis out of GP normal hours
34	My pharmacy does but I haven't done the training course
35	Hospital Occupational Health Department provides the service
36	too much red tape to comply with and not worth the hassle
37	HSE- vaccines provides by nurses
38	Hospital pharmacist
39	Hospital pharmacy
40	I need to complete training I have previously done the training for the UK
41	Hospital pharmacist
42	Recently joined company and no training yet offeredd
43	As a locum pharmacist I am not asked to carry out vaccination duties
44	not applicable to me . i am a hospital-based pharmacist
45	I'm a locum and cost of service training is too high to manage independently
46	My training has expired

Appendix 4: Survey Question 7

Q7. Why do you not provide emergency medicine services?

	-
1	Have been so busy with vaccinations that it just didn't seem a priority
2	Haven't gotten round to it yet re training
3	Doctor's job
4	Time
	not currentlyreimbursed and given emergency nature you can hardly produce a bill, secondly
5	it is disproportionately expensive to train for a non reimbursed low volume service
6	Hospital Pharmacist
7	Newly qualified
8	I am currently taking the training online. However I am concerned that there is nothin in place in regards to payment for medicines used and potential liability even if protocols and regulations are followed. It is also demeaning to have pharmacists have to train in adminstraion of salbutamol inhalers when we have been demostrating their use to patients for many years.
9	If an emergency situation requiring administration of emergency medicine arises
10	RECENTLY OPENED NEW PHARMACY AND DID NOT HAVE TIME TO TRAIN THIS YEAR
11	Same as previous
12	I locum infrequently and have not had a training opportunity.
13	I don't care. Job is to dispense prescriptions, not save lives. That's for doctors
13	Providing a service that costs money where there is no possibility of getting paid for it
14	doesn't make any sense for a commercial business
15	Just have not got the time to do it
	As per previous question; as a hospital pharmacist we do not provide these services as part
16	of our daily duties or as part of the wider hospital pharmacy service
17	Same reason
18	service not available in hospitals
	I am now mostly working outside of community and I never did the training however I think
19	it would be important to undertake it for locuming.
20	In hospital setting
21	Did not complete training
22	Hospital pharmacist
23	Not a community pharmacist
24	Wnd explain to users of Salbutamol inhalers how to use their inhalers on a daily basis. Do we really need further training to do this?
25	Work in hospital
26	Work in a hospita
27	I have yet to complete flu vaccine training
28	I haven't look into it yet
29	Located on site in hospital
30	Hospital pharmacy
31	Hosp pharm
32	I just haven't completed the training yet
33	Awaiting a course
34	I have tried to do the Naloxone course but it has been cancelled / deferred twice
35	not applicable

Appendix 5: Survey Question 8

Q8. Do you find the PSI training requirements easy to follow and understand?

	Every year to be honest I'm a little confused with regard to what is required for
	experienced vaccinators
	From recollection, it has been quite difficult to work out what I need to do each year. It's
	important that this is 100% clear to ensure proper training and that there is no breach of the
_	regulations and practice insurance requirements
	There is no fixed qualification as a vaccinator/ emergency medicine administrator. If
	someone is competent and pass the training requirements they should receive an ID of
-	qualification.
	there was confusion last year as to the requirement for retraining for long term vaccine
	providers like myself. when i rang the PSI the advice was unhelpful. I rely on the IPU to translate the jargon heavy, information dense PSI information into user
	friendly easy to comprehend clear and definitive instructions
	There s no consistent information cahnnel that connects with individual
6	Superintendant Pharmacists, as opposed to mails for general viewing
	Found it confusing as to what was required by an experienced vaccinator for shingles
	The matrix is difficult to understand
	K
10	
	I do not like the use of hyperlinks in the document, and feel that a simple PDF table is
	easier to navigate.
	I also find it strange that you use different names for the training than available on the
	IIOP/Hibernian Healthcare site. This is confusing.
	There are too many options. One should be just trained in all or none
	Not clear wording
	I do follow them, but they are far too complicated and cumbersome
	Quite wordy and potential for confusion. Also the requirement to redo training if you haven't done a SC injection is hard to justify - would an OSCE not be enough?
	It used to be you needed to do onsite training every two years and this summer there was so much
	confusion as to whether it was required or not. Hibernian health were unsure and were still seeking
	clarification from the PSI at the time I repeated the course but when my colleague went to do it the
	next month Hibernian health said it was not a requirement anymore.
17	Convoluted process
18	requirements for experienced vaccinators unclear
	It can be difficult to ascertain what exactly each pharmacist has to train in each year.
19	Notifications tend to be very "wordy" and not very clear language used.
20	nothing about the psi is easy to follow
21	Over-complicated
22	Vague language
	Hard to work out when repeat training is required and when a pharmacist is
23	considered an experienced vaccinator, outside of the definition provided.
24	Not clear
25	No comment
26	Can be difficult to follow

[can seem a bit complicated with variations depending on previous experience,
	training etc. I usually have to get a second opinion to make sure I'm correct in terms
	of requirements. also not that clear that pharmacies can organise in house training
27	for cpr rather than use Hibernian
	It is quite confusing and ambiguous with regard to currency requirements for
28	experienced vaccinators.
29	Not clear at all
	Difficult to understand how the training requirements link in with one another, i.e.
	the emergency first aid, emergency vaccinations and vaccinations - which is required
30	for each servcie.
31	Very complicated table - guide on identifying train requirements is weak
	no email recieved to say training was compulsory. This fact should be unambiguous.
	pharmacists should be called to training days, regardless of their field of practice.
	"online" theoretical training is not sufficient when a persons life is in a precarious
32	position. I find the PSI stance to be very hands off.
	Often have to read and re-read the information, which tends to be over legalistic.
	An infographic may be clearer to understand.
34	They were very unclear and hard to access
	Hard to follow all the different elements involved between online courses and face
-	to face courses
36	T
	I find it very confusing what retraining I need to do each year for the vaccination
37	services. I end up doing everything again for fear I miss something
38	Not applicable
	I'm not entirely convinced that I need to be trained in how to administer a
39	salbutamol inhaler
40	Too many modules
41	It can be difficult to be confident on what refresher courses are required
42	Not convenient for me as a locum
43	There is too much repetition of information on the webpage.
	Quite complicated to figure out what training is needed for what service and what
44	needs to be repeated/ refreshed and when
45	not easy to follow and understand
	I find the IIOP website very difficult to navigate. Course content and information is
	thorough and informative, but difficult to find and navigate through the difficult user
46	interface of the IIOP website.
47	very cumbersome
	Training requirements are way to complicated depending on experiencewould be
	easier to just have to do the same training every year regardless of whether you have
40	vaccinated before or not. Besides we all forget the detail when we haven't done
48	something in 6 months ie April to sept.
49	I didn't know that they existed for emergency medicines
50	It was a few years ago but info seemed to be in various placesiiop, psi,ipu
E 1	Over bureaucratic and legalistic language- not easy to translate into what happens in
51	the real world
52	I need to find out more but I think this would be an excellent service to provide to
52	the public
53	Don't know how or where to access this training.

vaccines and the frequency they must repeat the training are not clear. Not clear how to complete training; perhaps best to have a structured course believed and assessed by the IIOP It's quite complicated to decipher what we actually need to have in order to be covered to deliver services. Could be way more streamlined. Complex and somewhat ambiguous Website can be hard to navigate to find specific information I prefer more videos that show practical and explanations on the video instead of the sext for reading. I prefer more videos that show practical and explanations on the video instead of the sext for reading. I prefer more videos that show practical and explanations on the video instead of the sext for reading. I prefer more videos that show practical and explanations on the video instead of the sext for reading. I prefer more videos that show practical and explanations on the video instead of the sext for reading. I prefer more videos that show practical and explanations on the video instead of the value of the sext for reading. I was the training requirements for administration of shingles vaccine were unclear. Flu vacc requirements very convoluted with experienced people unsure where they stand Need to contact Hibernian Healthcare to know what I need to carry out each year. I am just unclear what and where to find this information. I have a feeling of over whelm with all the new changes. All have never looked properly before so I'm not sure if it's easy to understand the sextion: Validity of Medicines Administration (Parenteral) Training Programme Certification are quite unclear and could be simplified or concrete common examples given. If find the IIOP website very hard to navigate and can't seem to find clear instructions on how to complete the training Hard to decipher the annual requirements which are a function of what you did in previous years Requirements seem very complicated very lots of clauses/exclusions/asterix ect. Examples of the service of the flu vaccine (on iiop webs		The exact training a pharmacist must do in order to renew their training to do
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84 after doing cpr 85 so much duplication it is confusing	83	identified.
85 so much duplication it is confusing		Could be able to do together sooner so ages before could do salbutamol training
	84	
86 Yes	85	so much duplication it is confusing
	86	Yes

87	Too many different people involved, PSI, IIOP, Hibernian Healthcare and too many parts though they did simplify it somewhat in 2019/19 season
88	too much
89	Very convoluted and confusing to figure out
90	Not really
	The details are quite hard to follow and I am not always sure where is the best way
91	to complete the training.
92	am not overly familiar with the training requirements set out for these services.
93	Poor description. Dangerous advice.

Appendix 6: Survey Question 11

Q11. If you disagree with the frequency that any of the above training programmes must be repeated (Question 10), please provide the name of the programme(s) and how often you believe re-training should be undertaken? E.g. every year, every 3 years, every 5 years, self-assessment.

1	unless there are major changes to the delivery of specific meds then self-assessment should be considered.
-	every 3 years would be sufficient depending on the number of vaccinations carried out
	Delivery of a vaccination service should be every 5 years. Delivery of salbutamol every 5
3	years. Pneumococcal and herpes every 5 years
	I think the frequency of every two years seems reasonable but I think some of the
	programmes don't need face to face training every 2 years, especially if someone has
	been running a service consistently for a good number of years. These could be done
4	online in conjunction with self assessment.
5	self assesment
6	Every 5 years with self- assessment
	All programmes should be self-assessment every two years with re-training every 5-8
7	years
	glucagon, gtn and salbutamol are basic knowledge form all pharmacists and should not
8	require any training. For flu every 2 years at a minimum
9	Every 3 years
	Delivery of vaccination- 5 years
	Salbutamol- every 10 years or never
	GTN- every 5 years or more
10	Influenza face to face every 5 years and online every 2 years
10	Delivery of a vaccination service 4 years provided service is provided every year and there
	are no changes to guidelines.
	Salbutamol inhaler - 4 years
11	GTN spray - 4 years
12	Glucagon salbutamol gtn self assessment
13	Influenza- self assessment
	How often do nurses retrain for the delivery od similar services over their career, and is it
	at a cost to themselves? It is a vote of no confidence in our professional ability that we
14	have to continue to retrain(as opposed to update)
	Every 5 years for all unless dramatic change in best practice requires retraining of all. A
15	distance learning refresher course online each year should be sufficient
	Think every year as acts as a refresher especially for emergency situations as it is
	something that you dont practice and you dont know how you would react in that
	situation. If a refresher is done each year it keeps the information fresh in your mind.
17	Salbutamol/GTN 5years or self assessment
	If a pharmacist is providing the service annually, there should be no need for annual
	training. Flu vaccine. It's the same
10	We are not idiots
19	ivve are not idiots

In my opinion, as influenza vaccine is the most common one that we administer as pharmacisst during the flu season, the training should be done every three five years. It is 19 a waste of time to do it every year 20 Self assessment 21 Every 2-3 years Vaccinations every 3-4years Delivery every 2 years ok as there may be administrative or pcrs changes to become familiar with. One you start to provide a vaccine programme, and protocols in place I think the frequency ofevery two years is not required and 3/4 is adequate. A pharmacist should be competent enough to ensure they are satisfied with their own technique and if they feel they need re-training then they should go earlier as ultimately it's there responsibility to act professionally and competently in vaccination provision as a Gp practice would be. I have no experience with naxolone and do not stock it. Salbutamol and gtn and glucagon administration every 5 years a practical attendance otherwise maybe an annual video training through ipu for pharmacists to keep refreshed or complete training after a lapse from community practice. 22 For any service that is provided regularly self assessment should be okay. For a service that would be very infrequently provided (for me the emergency medicines administration would be extremely rare) then refresher courses would be useful as recall lessens over time. Having vaccinated from the first year and doing over 100 every season, I don't I 23 should need to retrain as long as I feel comfortable that I am competent. 25 Retraining should be taken for all every three years 26 Every 5 years 27 If the service is not provided on a year basis, training should be more frequently 29 Self assessment as these are have less risk.associated with them The only training requirement that should have a mandatory repeat requirement is the CPR training, as required for all other healthcare professionals. Each pharmacist should have the autonomy to decide when they need to refresh or repeat training, as they do with all other elements of their knowledge and skill set. Repeating a training course does not automatically indicate competence and would be far more efficient use of time to allow pharmacists to learn from their daily practice, experience and updated articles and 30 documents relating to the emergency medicines or permitted vaccinations. 31 Influenza vaccination should be every two years at most. For less complicated emergency medicine, please make the time in which training should 32 be reveiwed, longer, ie 5 years Yearly training for emergency situations as they would not be frequently practiced in

34 Every 3-5 years for salbutamol training35 every 5 years or self assessment

Pneumococcal/Shingles/Vaccination service - these are ongoing activities and should not require retraining, salbutamol and GTN are counselled on frequently and so should not

36 require retraining

33 everyday situations

	As pharmacists we have a responsibility to ensure we are competent to deliver the services we offer. A pharmacist training every six months may be a lot less capable than a pharmacist who trained once. Doctors are not required to train specifically for every single thing they prescribe. In the case os emergency meds their should be no barrier in place which would prevent a pharmacist who feels competent to help a patient from helping
	them.
	Every two years should suffice
	Every 5 years
40	Seasonal influenza should be every 2 years(with just updated yearly)
	salbutamol inhaler every 3 years or self assessment gtn spray every 3 years or self assessment
41	delivery of a vaccination service. every three years
	self assessment for Salbutamol and Glyceryl Trinitrate. I have never encountered
42	Naloxone Injection.
43	self assesment
44	Delivery of a vaccination service 5 years if experienced vaccinator
45	Every 4 years
46	Self-assesmnet
	If we are talking about face to face training, this is not necessary for influenza every year,
47	but no harm to complete online training.
48	every 5 years more than sufficient, it is an insult to our intelligence every 2 years
49	There is a heavy cost attached to staying trained which many businesses cannot support
50	Salbutamol 5 years
	Glucagon. 5years Glyceryl trinitrate spray. 5 years
51	Salbutamol inhaler. Self assessment
	The training occurs too frequently.
	It is VERY repetitive.
52	It could often be better delivered by distance-learning or online.
	there is no differentiation in the above between online training and live training. I think that if a pharmacist is very experienced and has been offering a service for a number of years the requirement for live training should be diminished. Also the requirement for all health professionals providing this service Nurses, Doctors or Pharmacists should be the
	same.
54	Every 5 years for injections and every 5 for salbutamol GTN influenza
	My main concern is the time required for all pharmacists to attend face to face training. I think online training on the IIOP site is much more appropriate and less onerous for pharmacists and employers as it's very difficult to free up staff for training during the
	working week.
	Self assessment once pharmacist is deemed and "experienced vaccinator"
	Every 5 years for all with some form of self assessment.
58	5

1	Salbutamol and GTN spray should be every 5 years and self-assessment. Vaccines could be
	every three years.
	Individual vaccine training should not be mandatory at two-yearly intervals, perhaps three
	would be more suitable but I think this should be at the discretion of the pharmacist. If it is
	a service being provided by him/her frequently then I think they are likely to be more
	comfortable and may not need training as often
61	If someone has vaccinated for the past two flu seasons - then full retraining every 5 years.
-	Eventhing I disagreed with should be self assessment in my eninion
62	Everything I disagreed with should be self assessment in my opinion. Every 5 years (sooner if self-assess as requiring)save the first re-training should be after
63	two years
	Self assessment with mandatory 3 years
	All should be 4 years
	Every year, all of the above
67	* *
	Flu 2 years
	All disagree at 3 yearly intervals with self assessment of understanding and competency
	every three years for all
	Yearly self-assessment and then once every 3 years for each of the programmes
	every 5 years
	Self assessment
-	Self-assessment
	No need for retraining
	5 years
	Yes 3-5yrs as things do not change often
78	Every 3-5 years would be more than sufficient for us qualified healthcare professionals
	Every 5 years or self assessment should be sufficient. The training is currently split into too
	many sections each with different periods of validity which means I currently have to do the training courses every year and it is making me reconsider whether the service is
	worthwhile.
73	Delivery of a vaccination service and seasonal influenza should be 5 years unless there are
	significant changes
80	Self assessment for GTN and Salbutamol
	RESMA should be every two years as a reminder since this doesn't happen often and we
	should stay sharp, the rest of the programmes once every 4 years should suffice unless
	there is a major change in the program.
	Where I have indicated "disagree" I believe that re-training following self-assessment should suffice.
	all, self-assessment
85	Vaccine divery should be repeated yearly if not used in the previous year except if there's
	a significant change in either the vaccine or its delivery. Emergency medicine
	administration fine with online refresher every 2 years.
85	
	On the job experience should be enough to maintain competence eg if the pharmacist
86	administered at least 5 medicines per year /season.
87	self- assessment

I	EITHER 5 YEARS OR SELF ASSESMENT. ANY RETRAINING SHOULD BE AVAILABLE ONLINE BY
	ONLINE COURSE OR WEBINAR
	Salbutamol 4 years
	GTN 4 yrs
	Delivery of vaccination 3 yrs
	Salbutamol Inhaler and Glyceryl Trinitrate could be done by self-assessment on a required
	basis
91	Every 5 years is sufficient
	All training should have to be completed every year in my opinion. Shingles and pneumonia are not given very commonly so it's easy to forget and flu generally only busy
92	for 4 months of the year so again retraining is needed each year.
- 32	if training is already completed and pharmacists have carried out a vaccination service self
	assessment would be sufficient especially due to the fact that the required courses are
	limited in location and requires travel for a large number of pharmacists and the expense
93	involved
94	every 5 years maximum - training is repetitive and of little use
95	Every 3 years
	every 5 years
	Every three to five years is reasonable if by completing a short online tutorial with
	demonstration videos on technique etc
	self-assessment
	Every 5 years
-	Salbutamol inhaler and GTN spray training could be less frequent eg. every 5 years
101	Herpes and pneumococcal should be one year like flu
	A patient facing community pharmacist likely offers training to patients on administration of salbutamol and gtn sprays on an almost daily basis. Self assessment would seem to be
102	the appropriate way to determine training requirements.
	Salbuntamol, GTN & Glucagen to be undertaken every 5 years
100	Every 5 years for flu program
	Every 5 years for items I dispense and train patients on eg salbutamol and glyceryl
104	trinitrate
	Two years is such a short time in pharmacy as time flies by. If we are going to be providing
	the service we are getting consistent practice and shouldn't have to pay money to do the
	same thing every 24 months or less. An online catch up on any new things would be better as I have to take a day off work to go to the training and it's two hours away as well.
103	I think the retraining of most of the above should be moved to self-assessment. If you are
	an experienced vaccinator. You are very competent in I.M. injection. In the last number of
	years, our pharmacy has administered over 1,100 vaccinations and it is an area we are very
106	comfortable in.
107	every 5 years
108	Salbutamol every 3 or 5 years
109	I think training should be repeated each year for all injection administration.
	Flu vaccine administration should be left at the discretion of individual pharmacists in
	cases where they have provided the service for min three years
-	Self assessment
112	GTN Spray, and Salbutamol Inhaler, every five years. The rest every three years.

113	Seasonal flu vaccine training every 2 years
	Salbutamol/gtn spray, self-assessment
	Administration of these vaccines follows the same patternthe same checksthe same administration techniques etcTo administer over 150 vaccines each year and still be
	required to top up training other than a refresher module on computer, seems needlessly excessive and financially unnecessary
	5 years
	I think the training should not need to be repeated on any of these services. Once we are trained in administration we have the skills and 2 years is just too soon to do it again. 5 years later would be better as a refresher course and thereafter self assessment should suffice. 2 years is a bit ridiculous considering the expense involved and having to try get cover in the pharmacy and taking a day's holiday. It is not convenient for many to travel to Dublin. Even if the PSI could collaborate with the IPU academy and run refresher courses
	after working hours.
	Self-assessment
119	Every 5 years would be sufficient provided online refresher courses were done annually
	I think all of the trainings should be three yearly for vaccinations /injections and five yearly for salbutamol and glycerol trinitrate spray.
121	Every five years at most. Ideally online self assessment.
122	Salbutamol / Gtn self assessment
123	2 years
	Pharmacists are trained for salbutamol Inhaler administration throughout undergraduate studies and in daily practice in inhaler counselling and technique. I do not feeling retraining for this and GTN spray administration is required every two years. Self assessment and review of online material would be appropriate for this service.
	Vaccine administration re-training should incorporate all administration of vaccines and so re-training for separate/specific vaccine administration is not required in addition to delivery of vaccination service.
125	self assesment
126	Glucagon, Salbutamol, GTN - every five years.
127	5 YEARLY
	All the above that I disagreed with,I would suggest every 3 to 4 years practical training to be repeated and yearly self-guided online training to receive a certificate to delivery the injections especially.
	Vaccines that are administered regularly in the course of one's practice should be allowed to be re certified on a self assessment basis, unless there is a significant change in the composition/delivery of said vaccines. Easy-to-administer medicines such as salbutamol
	and GTN should fall under the same remit. Otherwise the schedule for training is appropriate in my opinion.
129	and GTN should fall under the same remit. Otherwise the schedule for training is
129 130	and GTN should fall under the same remit. Otherwise the schedule for training is appropriate in my opinion.
129 130 131	and GTN should fall under the same remit. Otherwise the schedule for training is appropriate in my opinion. Every five years or more or when guidelines change
129 130 131	and GTN should fall under the same remit. Otherwise the schedule for training is appropriate in my opinion. Every five years or more or when guidelines change seasonal influenza every two years I believe that all vaccines including influenza vaccine should be every 2 years with a self assessment each year for the influenza vaccine. I don't believe retraining every year for

134	Self assessment would be appropriate after intial validated training
	Influenza should be two yearly to match others. In fact, many of the others are emergency
	drugs rarely given, so they need refreshing as training may not ever be used. Vaccinations
135	on the other hand, are training followed by at least some doing.
	neither doctors or nurses have to undergo retraining in these tasks. I could live with a
136	refresher course every 5 years
	Naloxone, Glucagon, Salbutamol, GTN all dispensed regularly with counselling of patients
	required - if we can't dispense these, we shouldn't be working.
137	Flu, Pneumo, Herpes - regular use keeps skills up.
	Every 3 years
	Is the PSI stating that in the absence of training or with expired training a pharmacist
139	should NOT administer any of the above medications?
	For all the above, with the exception of RESMA, retraining every 5 years is more than
140	sufficient.
	self assesment would be more appropriate as the delivery of the service does not change
141	from year to year
	Training every 5 years for salbutamol, glucagon unless there are any serious changes,
142	then immediately after the changes.
	Deliver of a vaccination service self-assessment/never
	Pneumococcal/Heroes Zoster self-assessment/as changes published?
143	Salbutamol self-assessment
	I believe that once you are experienced in providing a service it should be enough to re
144	train seasonally on line rather than having to leave pharmacy and organise Locum cover
145	Every 5 years
146	every 3 years
	Salbutamol inhaler administration could be self-assessed using placebo.
147	GTN spray could be self-assessed, as it is a fairly straightforward procedure
148	RESMA - ANNUALLY. DELIVERY - ONCE ONLY
	I feel once you have been vaccinating for a number of years three year face to face
149	
	0 07
	l agree with a refresher for online courses. I would not agree with face to face training for
	I agree with a refresher for online courses. I would not agree with face to face training for these courses for the following reasons
	I agree with a refresher for online courses. I would not agree with face to face training for these courses for the following reasons 1. Cost. I does not make it financially viable for pharmacists to provide these services for
	I agree with a refresher for online courses. I would not agree with face to face training for these courses for the following reasons
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151 152	l agree with a refresher for online courses. I would not agree with face to face training for these courses for the following reasons 1. Cost. I does not make it financially viable for pharmacists to provide these services for the cost of training along with holding stock of epipen in case of anaphylaxis. 2. It is becoming increasingly difficult to find pharmacists to cover days of absence of the pharmacy while training is being done. Training days are quickly booked out in locations outside Dublin and it means pharmacists are having to travel long distances to get face to face training. In the case of an experienced vaccinator I would not disagree with five year face to face training intervals with yearly online self assessment I agreed with an annual online refresher and after that every 3-4 years is sufficient I feel if a pharmacist is vaccinating every year. Via self assessment every 3 years or more, re-training intervals are too frequent currently

154	Once someone has been trained once, that should be enough. We only sit a driving test once. A car is a one ton machine that travels at 100km per hour and can do far more damage than a poorly administered vaccine. How often do doctors and nurses re-train at vaccinations? I originally did the training, but dropped the service due to the re-training requirement. Many colleagues have done the same.
	The injection is very straight forward to give. Attending specific training days every two
	years seems unnecessary - time and cost wise. Online review of theory surrounding
	injection e.g influenza and contraindications/S/E etc is appropriate. Same for
	GTN/salbutamol. We describe how to use every day while counselling. Full training
	unnecessary every 2 years. Theory surrounding use could be reviewed online with self
	assessment every 2 years for any injection given. As anaphylaxis is a stressful situation
	every 2 years is reasonable so the pharmacist is confident rather than stressed if a
155	situation requiring it arises.
156	self assessment and reading when updates to medicine / vaccination schedule changes
	Could extent to every 3-5 years, unnecessary for experienced vaccinators to do it annually
157	or every two years.
150	vaccination and influenzaevery 5 years, or when an update as it would be the most
136	frequently done vaccine every 3 yrs, Glucagon, Salbutamol, GTN, seasonal flu, pneumococcal self
159	assessment
133	Delivery of vaccination service, if one is vaccinating for flu every year then after a few
	years it becomes routine. Small changes to the policy could be in some form of online
	refresher. RESMA and individual emergency situation trainings need to be refreshed
160	because it is unlikely that they would ever become routine
161	A 5 yearly refresher course should be sufficient
162	Seasonal influenza could be every 2 years with other trainings
163	3
164	4 years
165	Arrested self assesment for experienced vaccinators / administrators
	As often as GPs and nurses are required to retrain. And the HSE should fund the training
166	and retraining, as it reduces pressure on primary care centres.
	All of the above should be every 5 years. Before we re-commence the flu service we always
	do a refresh of the training carried out in order to prepare. As for the salbutamol, if a
	pharmacist does not know how to deal with an asthmatic, they are probably in the wrong
167	job as this is an essential part of every pharmacist's core competencies
	Salbutamol - 5 years
168	GTN - 5 years
	every 3 years min
	Training to occur perhaps every three years unless changes have been made
1/0	training to occur perhaps every times years unless thanges have been made

Appendix 7: Survey Question 12

Q12. Pharmacists who vaccinate continuously, using the same injection route, can self-assess whether they need to repeat training in the Medicines Administration (Parenteral) Training Programme. Pharmacists who have not vaccinated in the past 12 months (or influenza season) or have not been trained in the last 12 months, are required to repeat the training programme. Do you agree with the current re-training requirements, as set out above?

1	should be self assessment
	It seems excessive to repeat the training after a year. The training is the beginning- I think
	vaccinating under the supervision of another vaccinator should be sufficient once the
2	training has been done within the last 3 years
	12 months is too short an interval. Re-reading training materials annual would be sufficient
3	with re-training every 5 years
	I do not see that it is self assess for flu currently? I understood I need to complete on-line
	training every season
	Pharmacist who have completed training course should not have to repeat it
6	I feel 2 years in this instance for re- training.self assess otherwise is welcomed
7	If you have done at least 100 vaccines , then there should be no need to retrain.
8	12 months is far too short. Several years would be more appropriate.
	I think this requirement is externely unfair on pharmacists who have vaccinated for several years and may take a break from practice for a few months and may miss flu season e.g.
	long term illness, maternity leave, career break. We are not (as far as I am aware) required
	to retrain in any other area of our practice. I also think this requirement is a barrier to
	engagement with SC vaccines. As these vaccines are not PCRS reimbursed uptake is low,
	and it is possible that 12 months may lapse between a private patient requesting this
9	vaccine.
	The above requirement results in a pharmacist who has administered numerous injections or
	vaccinations over a number of years being required to repeat training due to an absence
	period of 12 months or more e.g. due to maternity leave but is considered otherwise
	competent to return to all other elements of their role. In addition, this restriction results in
	a pharmacists being considered competent to administer an injection 11 months and 29 days
	after training but at the 12 months adn 2 day point in time they need to repeat the training.
10	
	Once every 5 years if pharmacist has already undertaken 2 training sessions.
12	All should retrain in my opinion
	Due to maternity leave, an influenza season may be missed, but that does not render a
	person incompetent and needing to repeat an entire administration of parenteral vaccines
	course
14	Should be 2 years
	As stated previously pharmacists are well able to self access technique and shouldn't need
-	to receive formal accredited training unless they want it
16	dont know
17	Should be 2 years
18	Training every 5 years for experienced vaccinators
	Re-training is fine, but the need to attend a specific venue is of no value. Distance
19	learning/online courses should be preferred.
	If a pharmacist is an experienced vaccinator they don't forget the process. Thery should just
20	undertake an online refresher training

21	Should be 3years						
	Should be three years or longer. Unless administration technique changes in the interim						
	period.						
	Should be a longer time period of not vaccinating after which you need to repeat the						
23	training.						
	all pharmacists should be provided with in person training. no training provided in college.						
	unacceptable to equate a pharmacist with nurse/doctor who would be trained and						
	experienced in this from an early stage in their education and training. patients deserve to						
24	be provided with the best practice medicine.						
25	Self assess. We are ethical practitioners						
	I would extend to two years - experienced vaccinators may be on extended leave e.g. sick or						
26	maternity leave and unnecessarily be required to undergo retraining						
	If you are an experienced vaccinator but miss one season of vaccination I think you should						
27	be allow self assess whether you need to repeat the parenteral training.						
28	If person on maternity leave should be 24 months						
29							
	one can easily miss a year if on mat leave, travelling or taking career timeout. After many						
	years of vaccination one has plenty of experience. there is no need to retrain. Do doctors,						
30	nurses or dentists retrain if they have a year out.						
31	One year without vaccinating should not put you back to zero						
32	Training too often						
33	1						
	If a pharmacist has vaccinated for 2 years plus, even with a 12 month break eg for maternity						
	leave should be able to self assess if they need a refresher. Pharmacists are highly trained						
	health professionals with a high awareness of their ethical first class standards and as such						
34	can self assess.						
35	not as often						
	All vaccinators would benefit from completing the course every year regardless of						
	experience (I am speaking as a pharmacist who has vaccinated every year since the						
36	beginning)						
	Pharmacists have enough professional competency to determine whether live training is						
	required or not. The injection technique is similar enough to the flu vaccine technique so if						
37	we can be trusted with one, we should be trusted with the other						
38	if the pharmacist has previously vaccinated self assessment should be sufficient						
	I would consider that an experienced vaccinator who undertook a year of maternity leave,						
	should not have to re-train again upon return to work						
40	retrainingn is excessive						
	Train every two years if no practice						
	If they are very experienced vaccinators and miss a year eg due to maternity leave they						
	shoukdn't Need to re-train						
43	I won't forget my training that quickly. A quick online tutorial would suffice as a refresher						
44	l think training should be done each year						
45	Should be self assessment						
46	No						
47	The training should last at least 5 years						
	Not really an issue now that shingles is IM not just SC, but seemed ridiculous to have						
	complete entire training programme, perhaps a refresh on individual route if required but						
48	depending on previous pharmacist experience self assment is probably sufficient						

49	Three yearly would be sufficent						
50	You don't "forget" how to vaccinate. Unless technology or methodology changes.						
	If a Pharmacist who is an expert vaccinator has been absent from vaccinating for the						
	previous influenza season they should not have to repeat a training programme. This						
	discriminates against pharmacists that did not partake in influenza vaccination due to illnes						
	or maternity leave etc.						
52	prefer 2 years						
53	Unless the guidelines have changed it is straight forward. Maybe if they just complete an online refresher instead of the full day course						
	Vaccination really only needs to be validly tested once. Further testing is simply						
54	unwarranted regulatory burden with no evidence of a positive outcome						
55	Perhaps after a 2 year gap						
56	2 years is more than sufficient						
57	Make it a longer interval or remove requirement, drs never have to retrain on injecting						
	If you have been vaccinating for 5 years consecutively or more I do not think you should						
58	have to retrain if you miss a year due to say maternity leave.						
	I think missing one vaccination season without training won't have an impact on a						
59	competent professional picking up after another year. It should be self assest on confidence						
60	Once should be enough						
	Every 5 years is sufficient in my opinion. Vaccine us straightforward to administer. Theory						
61	could be reviewed using online course/assesment before recommencing vaccinating.						
62	I think it should be extended to two years						
63	lt						
64	Same as GPs and nurses						
65	Pharmacists should self assess themselves and determine what (if any) training is required						
66	No						
67	Bias involved						

Appendix 8: Survey Question 13

Q13. If you have practised your injection technique on patients each year/influenza season, what type of re-training do you believe should be required?

1	every 3 years
	Every 3 years
	Online Training upgrade
4	Mandatory distance learning each year
5	Mandatory training every 3-4 years
6	Self- assess your own needs yearly. Mandatory training every 3-4 years
	It would be good in the first instane to understand what is meant by the term 'practised'? Training should not be required, in line with other aspects of practice, the pharmacist should self-assess and identify if re-training is required e.g. after a period of absense or where one does not obtain experience a pharmacist in line with other aspects of their practice should in a contemporaneous manner identify if upskilling or re-training is
7	required.
	5 yearly
	Re-training is fine, but the need to attend a specific venue is of no value. Distance learning/online courses should be preferred.
10	Self-assess with mandatory refresher training every five years
11	self-assess, save mandatory after two years and then every five years
12	Mandatory training every 4 years.
13	self assess every 2 years
14	Every 3 yrs
15	Train every 3 years
16	Training ever 3-5 years
17	Mandatory 5 yrs
18	Mandatory assessment
19	Self assess each year but mandatory every three years
20	Online guide self assessment and only training if techniques change.
21	None
22	Same as GPS and nurses

Appendix 9: Survey Question 14

12 3years

13 Same as GPs and nurses

Q14. If you have not practised your injection technique on patients in the past year/season, what type of training do you believe should be required?

1	online training module, wih practical assessment by Supt pharmacist
2	Extend break in practice to 3years
3	Again, define what is meant by the term practise. Also, could watching a video demonstrating technique be considered re-training? We are now in a situation where there are pharmacists who have administered more injections that the trainers, due to the current re-training requierments, which would seem to be an incredibly ineffecient use of resource and time. Having a restriction of the past year/season is incredibly difficult to follow up on as it's a moving date for every pharmacist. Possibly have pharmacist self- declaration of competence regards administering injections with each year's pharmacist licence renewal and this puts the onus on the pharmacist to re-train as preparation for this if they consider themselves not competent. Re-training through watching of video would seem the most logical simple refresher, with the option to complete face-to-face training when deemed necessary.
4	A different pharmacist should assesss
5	Self-assess with a refresh training - not a full training
6	Re-training is fine, but the need to attend a specific venue is of no value. Distance learning/online courses should be preferred.
7	Online content plus self assessment
8	Self asses if an experienced vaccinator in the past unless significant changes have occusince last practicing.
9	last two years more relevant
10	None

11 Not in a position to give an informed opinion as I've never administered vaccines

Appendix 10: Survey Question 16

Q16. Do you have any other comments or suggestions as to how the training requirements for the delivery of vaccination and emergency medicines services can be improved, in a way that assures patient safety and access to emergency medicines and vaccination services by patients?

We would provide more vaccinations than seasonal influanza if there was a proper funding model available. At present, the economics do not stack up hence we restrict our practice 1 to influenza vaccination. Relaxation of some of the requirements for experienced vaccinators (namely seasonal flu); 2 very clear algorithm(s) as to what the training requirements are. 3 Peer discussion and shadowing other vaccinators would give a broader assessment Pharmacists should receive a qualification to vaccinate/administer emergency medicines. This qualification should expire in 5 years. The DOH should now allow pharmacists to expand their role into travel and occupational vaccines i.e hepatitis and 4 teatanus. Pharmacist have proven competency in this area. Face-to-face should be available as an option for all training for pharmacists who prefer that 5 learning style The professionalism and knowledge of pharmacists should be respected and encouraged, 6 requiring us to train to use GTN and salbutamol is insulting roll out of a nation reimbursement and subsidized training to encourage uptake. I understand this is outside the PSI remit but I do not agree that the PSI can insulate 7 themselves from valid barriers to practice that their registered pharmacists experience I believe Hibernian had a monopoly on the training, which is not good for either recipient of provider of training. I expressed my concerns about the quality of training during my initial training, but received no feedback from any organisation. I have no confidence in the ability of the PSI to deliver cost effective or quality training for our members, as my concerns were 8 not acknowledged at this time 9 I did not find the Hibernian training to be very good Mandatory one emergency medicine delivery per year so then can be repeated cyclically and if pharmacist wants to self asses on more than one they can do. Vaccinations grouped every 3 years as mandatory. Certificate of excellence for pharmacy practice on retaining all mandatory requirements/ available public. 10 I feel the PSI need to expressly explain what they think 'self-assess' means, by for example, providing a self-assessment guide. 11 The completion of each of the above courses or training is currently optional. Hence, you can have a pharmacist who can choose to not administer adrenaline in an emergency as they did not complete the training. The training should be once off - with each pharmacist choosing to re-training if they choose (excluding CPR). The training should be mandatory for all courses where one could possibly encounter the need to use the skills/knowledge in the course of daily practice. The training should also now be incorporated into undergraduate courses and there should be a check/tick box in the annual licence renewal to ensure ALL pharmacists are trained and maintain competence to administer vaccinations and relevant emergency medicines. Where possible training should be accessible online - this facilitates ease of access to refresher and re-training. Having to repeat 'foundation' type training is inefficient use of time and resource and also can result reducing competence/skill set by 12 avoiding the reference to more relevant and updated publications e.g. updates to national

1	immunization guidelines. The current training requires a pharmacist to obtain 5 certificates				
	to administer an intramuscular injection and this needs to be re-worked.				
	As it's a patient safety, community vaccination programme, would it be unreasonable to				
13	expect the Dept of Health to underwrite the not insignificant cost of current training				
	Online training should be alternated with face to face every 4 years, just to ensure nothing				
14	is missed in delivery of service				
15	Provide service free of charge to hospital pharmacists to improve flu vaccine uptake				
	Self-assessment is key - we need to take professional responsibility for our competency a				
16	not require prescribed training.				
47	Allow pharmacists to self assess and take professional responsibility for services they want				
1/	to provide.				
	I did not provide the service in 2018 as a private healthcare company (Hibernian Health)				
10	deemed my knowledge to be substandard, even though I provided the service each year for				
	four previous years				
19	Periodic surveys of Pharmacists who are involved in the service.				
20	We need to move as much training as possible online to allow pharmacists up skill without the need to be released from their day to day jobs for a full day.				
20	I think you should consider how you improve the delivery and timing and currency				
	requirements with regard to the pharmacists undergoing above. So that it would make it				
	easier for pharmacists to undertake and keep up to date with current training. I think this				
	would encourage more pharmacist to undertake the training and so provide more access to				
21	emergency medicines across the country to patients especially in rural areas.				
	Should be extended to travel vaccines and other IM injections				
-	Real-life practice should be incorporated into training sessions				
	In depth in person pharmacist training should be provided free of charge as part of PSI				
	services. the PSI is responsible for ensuring patient safety. therefore, they should ensure				
	that pharmacists are adequately trained. no parenteral training occurs as part of the				
	pharmacy undergraduate course, therefore unreasonable to assume online course would				
24	be adequate for training.				
25	Undergraduates are trained I presume				
26	None				
	All vaccination and injection training could be done in a half day face to face. All the online				
27	courses are very repetitive and difficult to access				
28	KEEP IT SIMPLE				
	you must trust the profession more. We are capable of assessing our own professional				
	needs. We more engaged in CPD than any of the other professions. Allow us to self assess				
29	our own need for additional training.				
	For patients to have easy access to emergency medicines on the rare occasions that they				
20	will be needed there has to be a mechanism in place to meet the costs of providing the				
30	service, such as an annual retainer				
	The more online training that pharmacists can do in their own time the better. Engagement				
	with GP's via HSE or other body on how to best serve the needs of every area is also important as GP surgeries are inundated and GP's numbers fall. However rural availability of				
	support pharmacists seems to be an issue in some areas. And carrying out these services				
31	demands the availability of support.				
	Not sure if training in UK is recognised				
33					
33	there needs to be a payment mechanism to reimburse pharmacists who engage and use				
34	these newly acquired skills				
J+	priese newly dequired skins				

I believe pharmacists should have to complete the same face to face training every year regarding vaccination.

If face to face training is mandatory, more locations for training should be provided i.e not mainly Dublin based

I think all newly qualified pharmacists should be contacted regarding all these training requirements and given details on how to receive the training once they register with the 37 PSI

I cannot understand why most vaccines are not done through pharmacy. it would increase compliance and pharmacy offers a much more patient focused service than gp / hse clinics

Provide official document for reporting of RESMA administrations for use nationwide. PCRS should provide reimbursement for these medicines. I work for Boots and we have been provided with no guidance regarding dispensing these medicines and I feel this is due to the grey area around payment for medicines administered. I have done the training for this but as the company have not issued guidelines regarding payment do not keep a designated supply of these medicines as per PSI guidelines

39 Supply of these medicines as per PSI g

40 No

A better structure for provision of training, eg reminders, links to online training to encourage and remind pharmacists to engage.

This may already be the case but if pharmacists graduating onto the register were given the necessary training to legally perform these lifesaving skills during the course of the five year masters it would greatly increase public access to emergency medicines.

It would also be useful if a system existed centrally to remind pharmacists of when specific training requirements are due for renewal based on their own training records, perhaps via the iopp system. It's easy to lose track of these multiple requirements.

Finally and importantly, the last thing on a pharmacists mind in a life or death situation should be "are my certs in order?". It should be acknowledged that although regular retraining in emergency medicines administration is important to ensure the safe delivery of these services, the administration of life saving care to a patient should not be withheld for technical reasons regarding training renewal.

We do a lot of CPD and are well able to self assess our need to retrain in these services. I wouldn't provide them if I didn't feel I had the ability to do it well. I wouldn't mind having to do mandatory online training as I can do it without the need to travel. If there was any new techniques or information I wouldn't mind having to retrain but I've just stopped vaccinating and it's almost time to think training again so the time just flies by. I feel the frequency of training needs and the cost is putting people off doing this service.

I think the need for pharmacies to have adrenaline x 6 per patient per 20minutes should be reviewed on the safety and lack of anaphylaxis events in patients receiving the vaccination. (i.e. 6 x adrenaline once is sufficient regardless of whether vaccinating 1/2/3+ patients per 20minutes.

Also, I think the blocking of pharmacists vaccinating outside of the pharmacy should be reviewed. Many pharmacists deliver medicines to elderly patients in their homes. If they pharmacist was willing to bring adrenaline, sharps disposal, etc, they should be allowed to

vaccinate these patients. At the moment, these patients must be inconvenienced to attend the GP or in the pharmacy physically and this may stop them being vaccinated at all. This is worse than putting in requirements which means the pharmacist brings the necessary equipment and being permitted to get the patient vaccinated when they are already visiting the patient. Also, pharmacists could go to schools, creches, nursing homes, work places that want vaccination but can not send their workforce to the pharmacy/surgery.

45 More explicit videos rather than self reading

I propose the creation of an IIOP moderated forum for any questions/ideas regarding the specific services. For example I had a few questions this year relating to vaccinating patients receiving chemo treatment, an area covered only minimally in the training sessions. After conducting the necessary research the answers were then communicated to patients as well as some of my colleagues. I believe more would have benefited if a forum like that existed. The forum can stand not so much as a training tool but as a continuous informational platform.

Some financial help towards the cost of the retraining should be available, particularly for Pharmacists practising in disadvantaged areas, as at the moment, we are making a loss on vaccination services, and are providing them firstly as a service to the public, and secondly to help develop the Pharmacy Profession.

That the face to face training is done in regional areas so there is not a long commute to 48 Dublin for example

I believe that each individual should decide if they feel they need to retrain but self assessment should be fine. Perhaps the courses should be made available for those who feel they need to brush up on skills but those who deliver a flu vaccination service every year really don't need to. It's a very very simple administration that requires hardly any assembly and is easy to administer. If someone hasn't used the skills in a few years it would be different. Watching a few videos online of the services should be enough of a refresher course. Repeating courses 2 years later is time consuming and costly for us not to mention 49 inconvenient trying to get cover.

Delivery of a vaccination service module seems simplistic and could be incorporated into individual vaccination modules.

There has only been a focus of training on community pharmacists and no support has been provided for training of pharmacists who work in Hospitals. Many hospital pharmacists locum but cannot attend training days as they are not facilitated by hospital management or the price of re-training is not feasible. This means that patients may not have access to emergency medicines or vaccination by an untrained locum pharmacist and likewise the pharmacist is at risk of litigation if they cannot provide administration of emergency medicines such as adrenaline. Locums are not reimbursed for provision of specialist skills such as vaccine/adrenaline administration and so should not be expected to part take in clinical activities that bear increased risks.

It should be the responsibility of the regulator and all Superintendent/ supervising pharmacists the ensure that their staff are facilitated and reimbursed to attend training for the overall improvement of public health regardless of who the provider is (i.e. public vs private and hospitals). Pharmacists have a huge reach into every community in the country and so a national strategy to train all pharmacists is required so that all patients have access to emergency care when appropriate

51

Mandatory face to face training should happen only once. Refresher courses could be online and it is patronizing to insist otherwise.

	Potential online training should include online delivery of the course. For instance if						
	Hibernian Healthcare put a video on the IIOP to train pharmacists as opposed to having a						
	courseday in a hotel every year/2 years. This would be similar to Blackboard apllications						
	that universities use for learning which many practicing pharmacists would have used in						
53	their undergraduate studies.						
- A	I used to provide flu vaccine service but have been put off by the cost of retraining and the						
54	1 10 7 1						
	I believe that if the there was an ability after completing the training online to have ongoing						
	access to the materials for reference would be a good idea						
56	Training for vaccinations could be bundled						
	Make the whole thing less confusing by having a flow chart directing what training needed						
	(think there used to be this a few years ago). Everyone is very busy and the simpler the						
57	better						
	their should be ONE provider of online training for all the various courses required. It is far						
5.2	too inconsistent to have to undergo online training modules from providers from different countries and juristrictions						
- 30	Hibernian course on CPR is always excellent, but every 2 years seems excessive. If we could						
	do course in person once, retrain on line every 2 years and in person maybe every 5-6 years.						
	I have never practiced CPR (thankfully!!!) so I suppose it does need to be refreshed but the						
	likes of a vaccine service where we are vaccinating maybe 30-40 people every week- the only						
	thing that changes Year to year is the vaccine constituents and maybe guidelines about						
	certain cohorts of patients- this could definitely be communicated on line!!						
	Currently there is only one provider of training (Hibernian healthcare). If there is to be more						
	frequent face to face training requirements surely it would make sense for other training						
60	providers to be able to provide accredited training and in more areas of the country						
61	Np						
62	Try to find a way to work better with gps so they promote us also						
	It needs to be taken into account that some pharmacists vaccinate a huge number of						
63	patients while others don't.						
64	Reduce cost of training						
65	Once is enough						
66	other vaccinations should be added to vaccination services						
67	availability of nasal versions and eligibility of Childre to get this would be a huge help						
68	no						
	It should be mandatory for every pharmacist to be trained						
	and it should be fully funded by the HSE						
	no						
	Make training more accessible to locum pharmacists						
72	Funding should be covered by hse						

Appendix 11: Self-Assessment Tool for Pharmacists Delivering Vaccinations and/or Emergency Medicines

This self-assessment checklist is a practical tool intended to assist pharmacists in reflecting, self-assessing, and evaluating their individual needs to refresh their training in order to have the necessary skills and knowledge to safely deliver the associated vaccines and/or emergency medicines. The checklist is not exhaustive and should be used in connection with all other governance and accountability arrangements in place in the pharmacy for the provision of additional services as determined by the Superintendent Pharmacist, Pharmacy Owner and Supervising Pharmacist.

Pharma	cist Name:					
PSI Registration Number						
	De	scriptor	Yes	No	N/A	Action Required
Step 1	I am familiar with and comply with the Legislation which allows pharmacists who have completed accredited and approved training to administer medicines and vaccinations set out in the Eighth Schedule to the Medicinal Products (Prescription and Control of Supply) Regulations 2003 (as amended). I have completed an accredited and approved Medicines Administration (Parenteral) Training Programme I understand the need to repeat the Medicines Administration (Parenteral) Training Programme if: a) I intend to deliver a vaccine or emergency medicine via an injection route which I have not previously administered or b) I intend to deliver a vaccine or emergency					Required
	nor been trained in* in previous flu season) (*trained in means com	on route which I have dministered to a patient) the previous 12 months (or apletion of the Medicines eral) Training Programme.				
					1	
	-					
	Children)	e for the Responding to an				
	Emergency and Manage (RESMA) training modu	ement of Anaphylaxis le				
Step 2	I have a valid certificate Vaccination Service train	•				

	I have a valid certificate for each training module					
	specific to the vaccine(s) and/or emergency					
	medicine(s) which I intend to administer					
	My training certificates (or copies thereof) are					
	retained at the pharmacy in which I intend to					
	administer vaccines and/or emergency medicines					
	I am familiar with the Summary of Product					
	Characteristics (SPC) for each vaccine(s) and/or					
	emergency medicine(s) I intend to administer					
	I am familiar with and comply with the PSI					
	Guidance on the Provision of Vaccination Services					
	by Pharmacists in Retail Pharmacy Businesses					
	I am familiar with and comply with the PSI					
	Guidance on the Safe Supply and Administration of					
	Prescription-Only Medicines for the Purpose of					
	Saving Life or Reducing Severe Distress in an					
	Emergency					
	I am familiar with and comply with the current					
	National Immunisation Advisory Committee (NIAC)					
	'Immunisation Guidelines for Ireland'.					
	I am familiar with and comply with the current					
	National Immunisation Office (NIO) Guidelines					
	I will ensure that I am aware of any changes to					
	legislation, training or guidance and will take steps					
	to update my knowledge and skills as applicable					
	I am satisfied that I possess the requisite theoretical k		_			
Step 3	administer vaccinations and/or emergency medicin				_	
	requirements and all relevant guidance. I understa					•
	Code of Conduct for Pharmacists that I am persona	lly and	profes	ssionali	y respons	ible for
	my own acts or omissions in this regard.					
	Signature		_	 Date		
	Signature		L	Jule		

Useful References (This list is not exhaustive)

- When performing your self-assessment, you may need to refer to the relevant sections of legislation and PSI Guidance. You can access pharmacy and medicines legislation through www.irishstatutebook.ie or on the PSI website www.psi.ie. PSI Guidelines are accessible on the PSI Website and in your Pharmacy Practice Guidance Folder.
- The National Immunisation Advisory Committee (NIAC) 'Immunisation Guidelines for Ireland' are available through the National Immunisation Office (NIO) website www.immunisation.ie
- The Summary of Product Characteristics (SPC) for each vaccine and/or emergency medicine is available via the Health Products Regulatory Authority (HPRA) website www.hpra.ie.
- The validity of training modules are outlined on the PSI website and/or by the training provider in the case of CPR certificates.