



# ascia

australasian society of clinical immunology and allergy

## anaphylaxis e-training for schools 2022 REPORT



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## INTRODUCTION

**ASCIA's purpose is to advance the science and practice of allergy and clinical immunology.**

ASCIA achieves this by promoting the highest standard of medical practice, training, education, and research to improve the quality of life and health of people with immune system disorders. These include allergies, immunodeficiencies and other immune diseases



An integral component of this is the provision of high-quality allergy and immunology education resources, including e-training courses for schools and children's education/care (CEC) staff.

ASCIA anaphylaxis e-training courses for schools and children's education/care (CEC) staff were first developed in 2010. The courses provide accessible, consistent, and evidence-based training on recognition, emergency treatment and prevention of anaphylaxis. To facilitate access, ASCIA e-training courses are available at no charge to the user.

**Anaphylaxis is the most severe type of allergic reaction and should always be treated as a medical emergency. Anaphylaxis requires immediate treatment with adrenaline (epinephrine), which is injected into the outer mid-thigh muscle. If treatment with adrenaline is delayed, this can result in fatal anaphylaxis.**

From December 2021 to December 2022, ASCIA incorporated a post-training survey into the *ASCIA anaphylaxis e-training for Schools* courses. Each survey comprised of two scaled response questions, two multiple choice questions and 1 open text feedback question. It was not compulsory for the user to complete the survey.

Responses from the *ASCIA anaphylaxis e-training for Schools* post training survey were as follows:

- 4210 responses for *ASCIA anaphylaxis e-training for Schools*

Responses from these surveys were analysed in 2023, providing the following valuable insights.

- How easy it was to understand the information in the course.
- How well the course met the participant's training needs.
- What aspects of the course participants were particularly satisfied with.
- Suggestions regarding how ASCIA could improve the course.

## ANALYSIS

Both quantitative and qualitative analyses of the responses was undertaken by an ASCIA Project Officer who had no prior involvement in the development or delivery of the survey.

Two questions required the individual to provide the most appropriate response from a corresponding 5-point Likert scale.

Two questions required a selection from multiple-choice answers, one of which had a 'select all that apply' rule resulting in respondents selecting more than one option.

Analysis of the open-text feedback responses to "Do you have any comments about how we can improve the course?" proved challenging to analyse. Responses varied in length from 0 - 1000 characters, and it was not compulsory to complete.

Analysis of the open-text feedback did however reveal three main response types:

- No text entered or indiscernible/irrelevant text.
- No suggestions on how ASCIA could improve the courses, but acknowledgement that the training was generally helpful and met the participant's learning needs.
- Suggestions on how ASCIA could improve the courses.

## FINDINGS

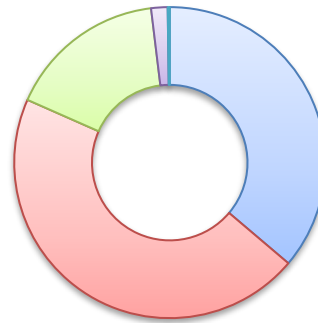
Overall, the information provided in the *ASCIA anaphylaxis e-training for Schools* course was easy to understand and met the needs of the participants:

### *ASCIA anaphylaxis e-training for Schools*

- **81%** of participants found the information either extremely easy or very easy to understand.
- **90%** of participants felt that the course met their learning needs either extremely or very well.

## ASCIA anaphylaxis e training - Schools

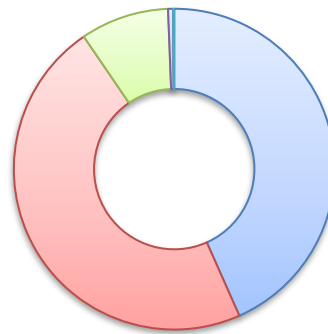
*“How easy was it to understand the course?”*



- Extremely easy
- Very easy
- Somewhat easy
- Not so easy
- I found it hard to understand

Extremely easy	Very easy	Somewhat easy	Not so easy	I found it hard to understand
1524	1912	693	72	9
<b>36.20%</b>	<b>45.42%</b>	<b>16.46%</b>	<b>1.71%</b>	<b>0.21%</b>

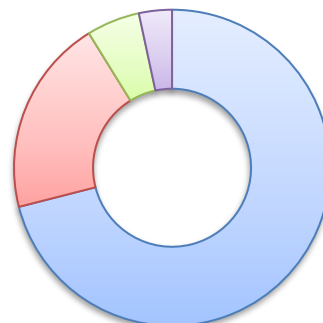
*“Overall, how well did the course meet your needs?”*



- Extremely well
- Very well
- Somewhat well
- Not so well
- Not at all well

Extremely well	Very well	Somewhat well	Not so well	Not at all well
1825	1984	375	21	5
<b>43.35%</b>	<b>47.13%</b>	<b>8.91%</b>	<b>0.50%</b>	<b>0.12%</b>

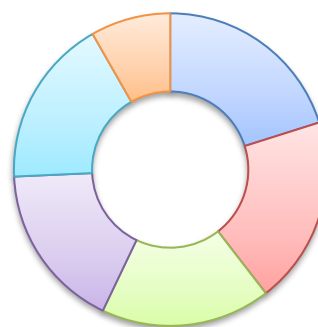
*“What device did you use mainly to complete the course?”*



- Laptop computer
- Desk top computer
- Smart phone
- iPad or Tablet

Desk top computer	Laptop computer	iPad or Tablet	Smart phone
849	2990	142	229
<b>20.17%</b>	<b>71.02%</b>	<b>3.37%</b>	<b>5.44%</b>

*“Select the aspects of the course that you were satisfied with”*



- Content
- Course length
- Examples and case scenarios used
- Videos/animations
- Assessment questions
- Ability to complete the course on mobile device

Content	Course length	Examples and case scenarios used	Videos/animations	Assessment questions	Ability to complete the course on mobile device
3984	3819	3445	3389	3436	1684
<b>20.12%</b>	<b>19.40%</b>	<b>17.57%</b>	<b>17.20%</b>	<b>17.44%</b>	<b>8.27%</b>

*“Do you have any comments about how we can improve the course?”*

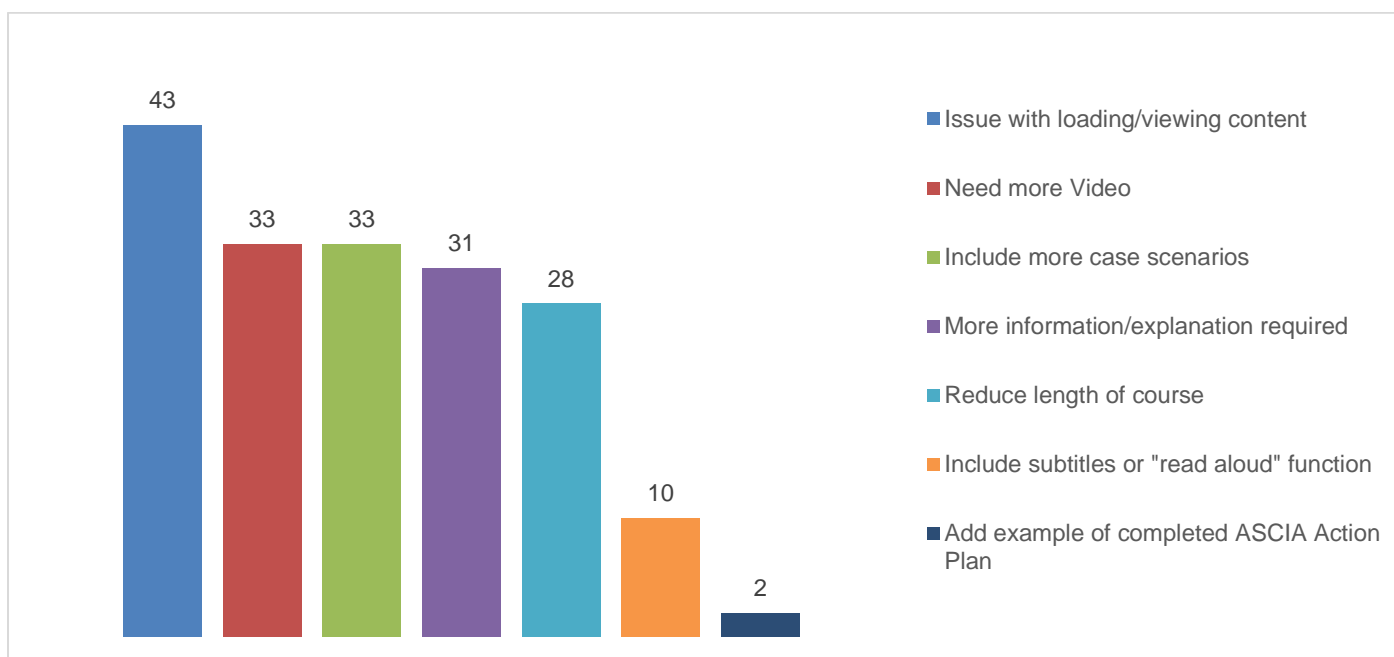
Of the 4210, 90% (n = 3801) of individuals chose not to respond. The remaining 409 individuals provided responses that fell into one of two groups:

- 47% (n = 191) indicated that the course was generally helpful and/or met their individual learning needs.
- 53% (n = 218) offered suggestions about how the training modules could be improved. Due to the freedom of respondents to enter unlimited text, an analysis for recurring themes was undertaken and responses were categorised accordingly.

Suggestions on how the course could be improved were analysed and seven themes were identified:

- More case scenarios
- Loading or accessing parts of the course
- More video clips and/or animations
- Further explanation of topic areas
- Reduce the length of the course
- Subtitles or ‘read aloud’ feature
- Provide an example of a completed ASCIA Action Plan

Results in the proceeding table is a count of the number of times one of the above themes was identified within all open text responses. It was noted that in some instances, more than one theme was identified.



### 1. Issue with course content (n = 43)

This suggestion was the most frequently mentioned among the total group.

*"The certificate of completion was very difficult to locate. It was not linked to the courses page."*

*"The layout of the training was a bit clunky/messy on my laptop computer. It took a little bit of time to figure out how to navigate to next section of training."*

*"I did experience some issues with accessing the embedded videos."*

### 2. Need more video (n = 33)

*"More video and animation summaries. Keep it as simple as possible. Infographics and graphic organisers are the way to go."*

*"It would be great to have less written information and more video content."*

*"Have video clips showing how to administer the epipen from a position where the patient is lying flat/ sitting with legs straight and in the recovery position. Seeing someone experience an anaphylactic episode (or the symptoms of) will make it easier to recognise/ remain calm when you experience it again in real life."*

*"Even though the illustrations and animations were easy to vision and understand, I think videos of real live scenarios/situations would have a greater impact for retaining information."*

### 3. Include more case scenarios (n = 33)

*“More visual/video case scenarios and examples to supplement text.”*

*“Scenarios are very helpful. Also videos of scenarios and the injector being used would be helpful.”*

*“The course could be more interactive - for example when discussing the positioning of the person, this could be an interactive cartoon where you can move the person, you could indicate where to position the epipen/anapen, how to position if pregnant etc.”*

*“More case examples and assessment questions related to them would be useful.”*

### 4. More information/explanation required (n = 31)

*“Providing information about how and where to complete the practical aspect of practicing using adrenaline injectors with the training devices would be helpful as it is emphasised as an essential part of this training.”*

*“It did not explain why some people will be prescribed EpiPen and others will be prescribed Anapen.”*

### 5. Shorter course length (n = 28)

*“Please make it more concise. Doing this test was extremely time-consuming.”*

*“Shorter if possible, keep to the most important information.”*

*“This course is overly detailed and keeps repeating information over and over. It is way too long and wordy. Please try and be more concise.”*

### 6. Subtitles or “read aloud” function (n = 10)

*“Have information displayed in the videos in a paragraph form below in case the video is unable to be watched or it is not the method that one learns/responds to.”*

*“There could be a voice option where the information is read out loud.”*

### 7. Add example of completed ASCIA Action Plan (n = 2)

*“I think providing an example of a filled-out ASCIA plan, and having a scenario based on this student (maybe in video form) will greatly help in grounding the knowledge. I think interval multiple choice questions on how to act will also be engaging and informative.”*



## ACTIONS that ASCIA will take as a result of e-training surveys

### ASCIA will:

- Review and update the *ASCIA anaphylaxis e-training for Schools* course to improve the user experience.
- Mandate the *ASCIA anaphylaxis e-training for Schools* course post-training survey.
- Include additional questions in the surveys to ascertain the primary location and education sector of the individual completing the course.
- Review and update the wording of the existing open text feedback request to prompt more relevant responses to offer specific improvements to the course content.
- Review survey results on a 6-12 monthly basis and develop four separate reports on surveys for schools, CEC, refresher, and community courses.

## SURVEY QUESTIONS (2021 – 2022)

1. How easy was it to understand the information in this course?

*Extremely easy - Very easy - Somewhat easy - Not so easy - I found it hard to understand*

2. Overall, how well did the course meet your needs?

*Extremely well - Very well - Somewhat well - Not so well - Not at all well*

3. Select the aspects of the course that you were satisfied with. If you were not satisfied with an aspect, leave the box unselected.

- *Content*
- *Course length*
- *Examples and case scenarios used*
- *Videos/animations*
- *Assessment questions*
- *Ability to complete the course on mobile device*

4. What device did you use mainly to complete the course?

- *Desk top computer*
- *Laptop computer*
- *iPad or Tablet*
- *Smart phone*

5. Do you have any comments about how we can improve the course?