ascia

australasian society of clinical immunology and allergy

anaphylaxis e-training for children's education and care services

2022 REPORT

CONTENTS

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 children's education/care (CEC) staff.

ASCIA anaphylaxis e-training courses for 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 Children's Education/Care (CEC)* course. 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 Children's Education/Care (CEC)* post training survey were as follows:

- 1044 responses for *ASCIA anaphylaxis e-training Children's Education/Care (CEC)*

Responses from the survey 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 Children's Education/Care (CEC)* course was easy to understand and meet the needs of the participants:

ASCIA anaphylaxis e-training Children's Education/Care (CEC)

- **74%** of participants found the information either extremely easy or very easy to understand.

- **88%** of participants felt that the course met their learning needs either extremely or very well.
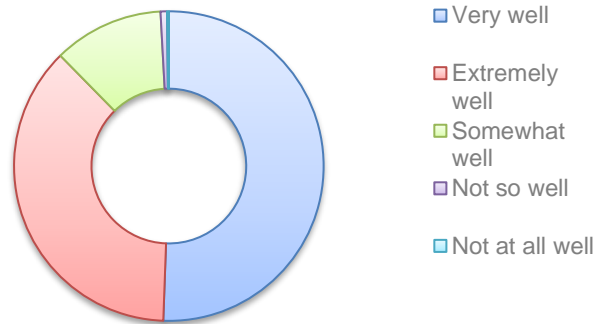
ASCIA anaphylaxis e-training - Children's Education/Care (CEC)
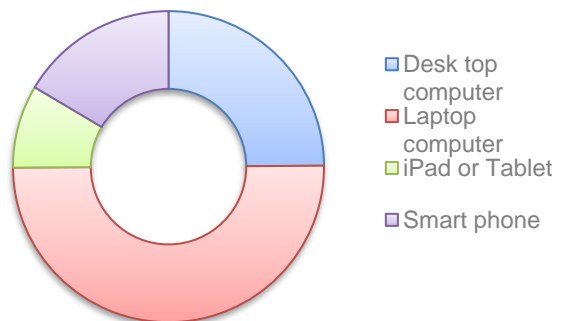
"How easy was it to understand the course?"
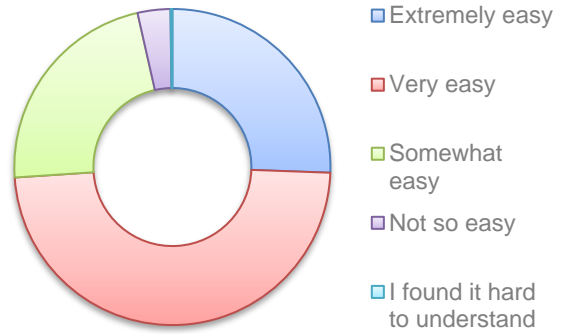
	Extremely easy	Very easy	Somewhat easy	Not so easy	I found it hard to understand
	267	505	235	35	2
	25.57%	**48.37%**	**22.51%**	**3.35%**	**0.19%**

"Overall, how well did the course meet your needs?"

Extremely well	Very well	Somewhat well	Not so well	Not at all well
387	528	120	7	2
37.07%	**50.57%**	**11.49%**	**0.67%**	**0.19%**

"What device did you use mainly to complete the course?"

Desk top computer	Laptop computer	iPad or Tablet	Smart phone
260	522	90	172
24.90%	**50.00%**	**8.62%**	**16.48%**

"Select the aspects of the course that you were satisfied with"
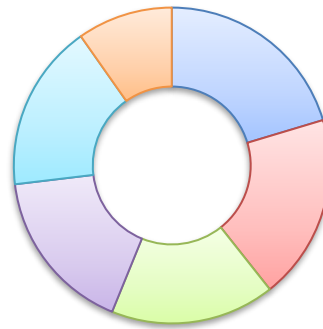
- □ Content
- □ Course length
- □ Examples and case scenarios used

Content	Course length	Examples and case scenarios used	Videos/animations	Assessment questions	Ability to complete the course on mobile device
697	650	576	580	587	334
20.36%	**18.98%**	**16.82%**	**16.94%**	**17.14%**	**9.75%**

## *"Do you have any comments about how we can improve the course?"*

Of the 1044, 90% (n = 930) of individuals chose not to respond. The remaining 114 individuals provided responses that fell into one of two groups:

- 51% (n = 58) indicated that the course was generally helpful and/or met their individual learning needs.

- 49% (n = 56) 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 recurring 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.
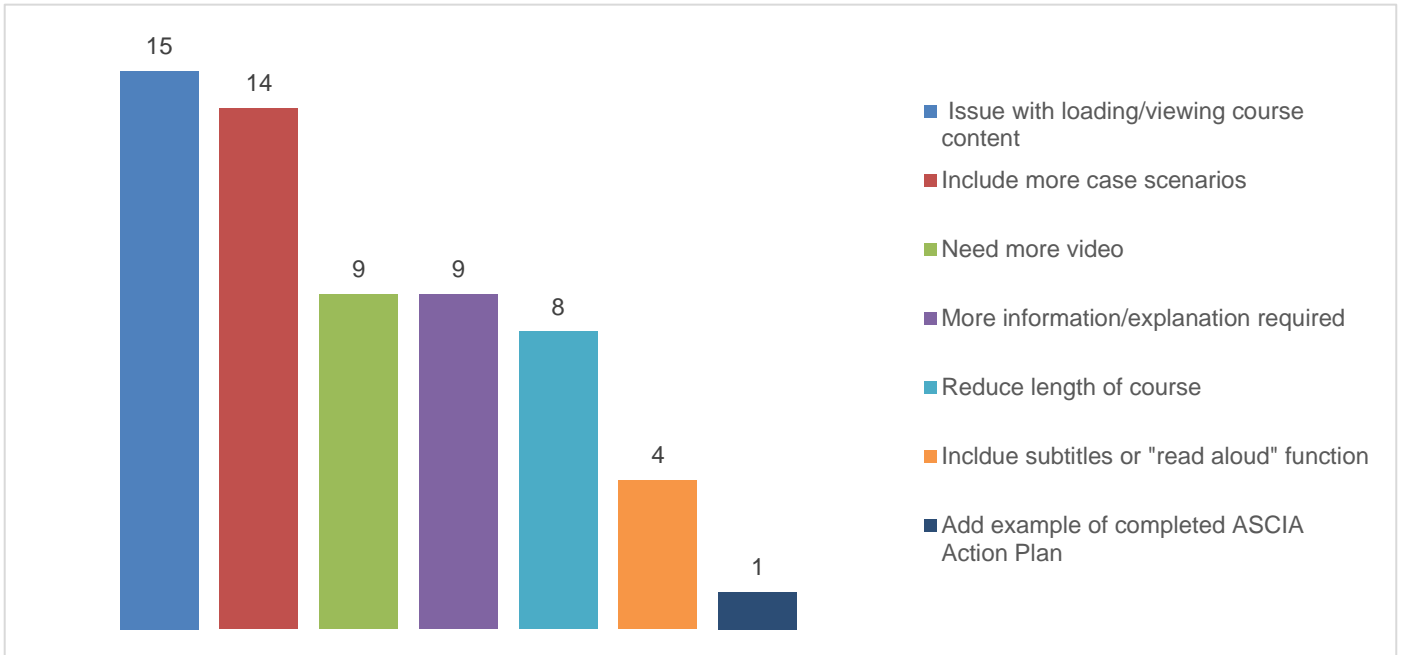
1. Issue with loading/viewing course content (n = 15)

"Sometimes the login seems a bit hard, it can be made more user friendly"

"Difficulty accessing the certificate after completing the assessment (with 100%)"

"Course lay out difficult to navigate. Make it simple"

2. Include more case scenarios (n = 14)

"Providing more good examples that related to practical life with theories or scenarios."

"Add more scenarios to show what a real-life situation may look like."

3. Include more video (n = 9)

"Perhaps more videos of real examples to demonstrate."

"Some of the 'cartoony' pictures I had trouble understanding, maybe use pictures of real life examples of what the picture is supposed to be."

4. More information/explanation required (n = 9)

"Include information about whether and epi-pen can be administered in the case of an individual who has suffered from anaphylaxis becoming unconscious and needing CPR."

"I found the language used for a couple of the questions ambiguous. For instance, the question asking if anaphylaxis symptoms can present immediately and the correct answer was no, because symptoms can also take longer to present. For me the language used for that question was confusing because it is correct that symptoms can present immediately but also correct that symptoms can also take longer to present. It would be helpful to be clearer on what the question was asking."

5. Shorter course length (n = 8)

"I think the course is perfect for anyone who doesn't have any knowledge of Anaphylaxis or Allergy. It would be good if the length can be bit shortened."

"It was a very long course."

6. Include subtitles or "read aloud" function (n = 4)

"Have a way to have the content spoken rather than only being able to read it"

"It would make it easier for me to access if there was an option for the course to be read to me."

7. Add example of completed ASCIA Action Plan (n = 1)

"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 ASCIA that will take as a result of this e-training survey

ASCIA will:

- Review and update the *ASCIA anaphylaxis e-training for Children's Education/Care (CEC)* courses to improve the user experience.

- Mandate the *ASCIA anaphylaxis e-training for Children's Education/Care (CEC)* courses 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?