Executive summary
The use of the combination of a web conference and teleconference to deliver an Epi Info training session was piloted with three public health units in New South Wales (NSW), two of which were located in rural areas. The pilot was evaluated to describe both the participants’ learning experience and whether this combination of communication techniques provided a satisfactory means of delivering professional development activities.

The evaluation was carried out in two parts: participants were asked to complete a questionnaire; and a focus group was held with the three site facilitators following the session.

Participant evaluation
There were 12 participants and the response rate to the questionnaire was 100%.

After the training session, 83% of participants felt able to apply Epi Info to a foodborne disease outbreak investigation. The participants reported an increase in their confidence in developing a questionnaire using Epi Info, entering data and conducting basic analyses of that data. However, there was little change in their confidence in interpreting the results of these analyses.

Participants were asked about the delivery of the session. The majority of the participants reported that the picture quality of the PowerPoint presentation on their computer screen was either ‘good’ or ‘average’. However, the sound quality of the teleconference was reported to be of ‘average’ or ‘poor’ quality.

During the Epi Info session, two sites experienced disconnections from the web conference and several participants reported delays in the PowerPoint slides being displayed on their computer screen. These technical issues affected the delivery of the training for all the participants. Despite these difficulties, participants cited benefits in receiving training this way, principally being able to access training without the need to travel.

Facilitator evaluation
Facilitators commented on the support and organisation provided by the NSW Department of Health on setting up the session. They could identify opportunities in using web conferencing; for example, for continuing professional development activities and working with public health colleagues. However, disconnections during the training session affected the quality of the learning experience.

Conclusion
This pilot demonstrated that professional development activities can be delivered via a combined web conference and teleconference, and identified simple measures that can improve the learning environment. However, the technical issues raised should be explored and resolved before promoting this means of delivery widely.
Background
In October 2004, the Communicable Diseases Branch of the NSW Department of Health conducted a Foodborne Diseases Workshop. As part of this workshop, an introductory session on Epi Info version 3.3 was offered to public health professionals. The session was well attended and well received. After the workshop, the Food Portfolio Group of the NSW Public Health Directors Forum approached the Communicable Diseases Branch and described a need for public health professionals in NSW to be trained in the use of Epi Info to assist with the management of outbreak investigations. Epi Info is a public domain software package developed by the Centers for Disease Control and Prevention to be used in outbreak investigations for the management and analysis of data.1 Epi Info allows public health professionals to create questionnaires rapidly, enter data and carry out analysis to generate statistics and graphs to help identify the likely cause of an outbreak.1

The Communicable Diseases Branch in association with the Executive Officer for the Public Health Directors Forum subsequently sought to organise an introductory Epi Info training session for a number of public health units in New South Wales. At the time of this study, March 2005, there were 17 Public Health Units in NSW; one located in each of the former area health services. Consequently, the people to receive the training were geographically dispersed. The preferred delivery format was an interactive session where the features of Epi Info could be demonstrated using a practical example of a foodborne disease outbreak.

Consequently a training session was developed to enable the remote delivery of training using a combination of a web conference supported by a teleconference. This allowed public health professionals to receive the training at their worksite. This pilot of the training allowed for both the efficacy of the training and the medium through which it was delivered to be evaluated.

Web conferencing is computer based and delivered over the Internet between two or more people situated at different locations. The rationale for using web conferencing was that it enabled a speaker’s PowerPoint presentation to be delivered to an audience in real time using Internet Protocol (IP) network connections.2 Web conferencing has numerous features, these include: sharing a presentation; document or white board; text chat; tools for annotating documents; and attendance indicators.2,3 The features used for the delivery of the Epi Info training were restricted to sharing a presentation and the attendance indicator.4 The reason for restricting the functions was to ensure that the focus of the session was the Epi Info training and that the web conference did not detract from the learning experience.

Combining the web conference with a teleconference allowed active conversation and voice instruction between the trainers and the sites. It is possible to web conference without teleconference support, the interaction between participants and trainers then occurs through the ‘chat’ facility and is a typed interaction. The teleconference was considered necessary for the pilot because at each site there were a number of participants who shared the computer connected to the web conference, restricting their access to the chat facility through which they could ask questions.

Aim
To evaluate the pilot of the delivery of an Epi Info training session to three public health units in NSW via a web conference supported by a teleconference.

Objectives
Efficacy of training
1. To introduce public health workers to Epi Info and its application to the investigation of outbreaks of foodborne illness.
2. To evaluate the learning outcomes associated with the training session.
3. To increase the confidence and skills of presenters in using web conferencing for training purposes.

Quality of the learning experience
4. To evaluate the participants response to using web and teleconferencing for training.
5. To evaluate the quality of the delivery of a training session through a combined web and teleconference.
6. To determine the technical and structural resources required to participate in the web conference.

Potential applications
7. To determine potential broader applications of web and teleconferencing for public health practice.

Method
For this pilot the Mid Western, Western Sydney and Greater Murray Public Health Units received the training from the NSW Department of Health where a group of three organisers and trainers were based. Members of the Food Portfolio Group volunteered their sites for the pilot. As most people are unfamiliar with receiving training through web conferencing, a training session in how to web conference was also provided and this preceded the Epi Info training session.

The method is described in three parts:
1. preparing the sites to receive the Epi Info training session

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1The attendance indicator provides a participant list of who is connected to the web conference.
2. delivering the training
3. evaluating the training session.

1. Preparing the sites to receive the Epi Info training session

The following steps were followed:

Site facilitator

A facilitator was identified at each of the three public health units. The facilitator’s role was to prepare their site for the web conference so that they could access the Epi Info session. The facilitators were provided with instructions on how to install the software Meeting Manager on the computer/s to be used for the web conference. All sites successfully installed this program.

Web conferencing training

The objective of this training was to provide participants with a basic understanding of the functions of web conferencing and for them to gain confidence in using it as a medium for the delivery of training. Telstra Conferencing using WebEx was the web conferencing provider used for both the web conferencing training and the Epi Info training session. A representative from Telstra facilitated the web conferencing training and also arranged a teleconference to support the web conference. The training was scheduled for one hour and the content covered is described in Box 1.

Organising the Epi Info session

Facilitators were responsible for the setup and organisation of their site for the Epi Info session. Their responsibilities included ensuring that there was a suitable venue with the following resources to support delivery:

- a computer with Meeting Manager installed and connected to the web conference
- a speakerphone connected to the teleconference
- a data projector to view the web conferencing computer screen
- a laptop or personal computer with Epi Info Version 3.3 installed for each participant.

The facilitators were provided with a checklist of these requirements.

2. Delivering Epi Info training

The Epi Info training session was conducted in early March 2005. All three public health units successfully joined the teleconference and the web conference. Mid Western and Western Sydney Public Health Units each had one computer connected to the web conference, while at the Greater Murray Public Health Unit there were two connected (see Figure 1). The duration of the training session was two hours.

Prior to commencing the training, the organisers carried out a roll call and then requested that the public health unit sites mute their phones unless they were asking a question.

The trainer at the North Sydney site displayed a PowerPoint presentation on their computer screen and this was viewed by the participants at each of the public health unit sites on their computer linked to the web conference. During the training session, participants were encouraged to use their laptops or personal computers to complete the Epi Info exercises as instructed by the trainer.

Content of the Epi Info training session

The content of the training session was adapted from the Epi Info training manual developed by the Centers for Disease Control and Prevention. The training was based on a food-borne outbreak investigation and covered the following:

- creating questionnaires that automatically generate a database
- entering data into the database
- analysing the data to produce statistics and graphs.

The training was modified for delivery through web conferencing.

3. Evaluating the session

Both the effectiveness of the Epi Info training session in increasing the participants’ knowledge of and confidence...
in using Epi Info and their experience of using web conferencing for delivery were assessed.

Participants were asked to complete a questionnaire and the facilitators were invited to participate in a focus group that followed the session.

**Participant questionnaire**

A structured questionnaire was developed that contained three types of questions:

- close-ended questions, including rating scales
- close-ended questions with the opportunity for comment
- open-ended questions.

The questionnaire had two parts. The first part was completed before the session started and sought to establish the participant’s previous experience of foodborne outbreak investigations and a self-assessed baseline of their confidence in using Epi Info for developing a questionnaire, entering data and conducting basic analyses. They were also asked about their confidence in interpreting the findings of an Epi Info analysis. Participants could indicate their degree of confidence by selecting from a horizontal scale consisting of five boxes; the first, marked 1, represented ‘not confident at all’ to the last, marked 5, ‘extremely confident’. The second part of the questionnaire was administered at the conclusion of the session. Their confidence in using Epi Info was reassessed using the same scale. Their experience of the web conference was sought, including whether they attended the training and the quality of the sound and the picture.

The facilitators distributed the questionnaire to participants at each site. The participant questionnaire is included in Appendix 1.

While the scales measuring confidence in using Epi Info were constructed to encourage ticks within the boxes, people also marked the line between the boxes. This was interpreted in all cases as halfway between two integers on the scale. The responses were entered into and analysed using a database created in Epi Info version 3.3. Descriptive statistics were used to analyse the responses to the close-ended questions. Open-ended responses were explored for major themes.

**Facilitators’ focus group**

The three facilitators were invited to participate in a focus group with the organiser/trainers via teleconference following the Epi Info training session. Permission was sought from them to record the teleconference onto a compact disc. The teleconference was organised through Telstra Conferencing and Telstra recorded the compact disc. The purpose was to explore any issues associated with the training session or encountered in the organisation of the web conference.

The facilitators were provided with the questions to be used approximately one week before the Epi Info training session. Questions related to: their overall impression of the training; difficulties encountered in organising the session; the value in rolling out Epi Info training across the state via web conferencing; potential applications of web conferencing in their work; and their views on delivering continuing professional development activities to staff via web conferencing. Their responses were examined and the major themes that emerged identified. The list of questions is included in Appendix 2.

### Results

**Participants’ questionnaire**

There were 12 participants across the three public health units. The number of people attending the training from each location is presented in Table 1. The response rate to the questionnaire was 100%.

The age and gender of participants is presented in Table 2. The majority of participants (83%) were female. Participants were asked their job title and four participants reported that they were communicable diseases surveillance officers, two participants were immunisation coordinators and the remaining participants were responsible for management, research and office administrative functions. Almost all participants reported that they had previously had some involvement in a foodborne outbreak investigation. The responsibilities that participants assumed at the time of an outbreak investigation included: conducting interviews; data entry and analysis; site investigation and providing advice on infection control; and the collection of samples.

| Public Health Unit | Participants (n) |
|--------------------|-----------------|
| Greater Murray     | 3               |
| Mid Western        | 6               |
| Western Sydney     | 3               |
| Total              | 12              |

| Participants | n |
|--------------|---|
| Gender       |   |
| Male         | 2 |
| Female       | 10|
| Age (years)  |   |
| 20–29        | 1 |
| 30–39        | 2 |
| 40–49        | 7 |
| 50–59        | 1 |
Eleven participants indicated that they had previously used Epi Info. Of these, three considered that their level of knowledge in using it was satisfactory whereas eight reported that it was poor.

Participants were asked to rate their confidence in using Epi Info to develop a questionnaire for a foodborne disease outbreak before and after the training. Figure 2 presents the before and after scores for the group and shows an increase in the participants’ self-reported confidence in creating a questionnaire.

Participants were asked to rank their confidence in entering data into a questionnaire created in Epi Info before and after training. Figure 3 shows their confidence increased, with two participants reporting to be extremely confident in performing this task.

Figure 4 illustrates the participants’ confidence before and after training in conducting basic analysis using Epi Info. Participants’ reported that their confidence increased. However, when participants were asked to rank how confident they felt in interpreting the analysis, Figure 5 shows that there was little difference in the scores before and after training.

Overall, 83% of participants felt confident enough to apply Epi Info to foodborne disease outbreak investigations in the future, with 17% of participants stating that they felt unsure.

### Table 3. Picture quality of web conference reported by 12 participants across three sites

| Picture quality | Participants (n) |
|-----------------|-----------------|
| Good            | 8               |
| Average         | 2               |
| Poor            | 2               |
Participants were asked if the PowerPoint slide visible on their computer screen was the same slide that the presenter at the North Sydney site was describing. Four participants reported delays in the slide becoming visible on their screen, with one participant unsure if they were experiencing a delay. Responses to this question were inconsistent, as not all participants at the same site reported experiencing the delays, despite viewing the same computer screen in two of the public health units. This makes it difficult to interpret these results.

Teleconference
Participants were asked to rate the quality of the sound from the teleconference. Overall the sound was considered to be of average or poor quality, see Table 4. Participants’ perception regarding the quality of sound varied at each of the sites.

Other aspects of delivery
Sixty-seven per cent (n = 8) of participants reported that, other than the quality of sound and picture, there were aspects of the web conferencing that detracted from the training. The Mid Western Public Health Unit reported that the web conference disconnected twice during the session whereas in the Greater Murray, one of the two computers used for the web conference also lost its connection. These disconnections slowed the pace of the training and this affected the sites that did not experience these technical difficulties.

Continuing professional development
Participants were asked what they liked most about participating in Epi Info training via web conferencing. Eleven participants responded to this question, with four citing the benefits of having training onsite and not needing to travel. Other comments included being able to carry out practical exercises with colleagues during the session.

Participants were also asked what they least liked about participating in the training and eight participants responded to this question. The majority of responses were focused on technical issues such as sound quality and web conference disconnections. Despite the technical issues, only one participant indicated that they would not participate in a web conference for a continuing professional development activity, whereas a further four were unsure.

Several people took the opportunity to make additional comments about the pilot and the application of web conferencing and teleconferencing to public health. One person suggested that public health professionals could use these to obtain assistance in applying Epi Info in the event of an outbreak investigation. However, several people highlighted issues that would need to be addressed in order to provide training via a combined web and teleconference. These included: access to the Internet in regional areas; local site setup for training purposes; and access to teleconferencing facilities.

Suggestions for improving the training
Participants were asked if they had any suggestions on how the training could be improved. Participants suggested allocating additional time for the delivery of the training on analysis and interpretation of results in Epi Info (n = 2), whereas other participants commented on the technical issues of web conferencing (n = 2) and the sound quality of the teleconference (n = 1).

Focus group with facilitators
At the conclusion of the Epi Info training session, the three facilitators participated in a focus group with the organisers from the North Sydney site via a teleconference. They were asked about their overall impressions of the technical delivery of the session. The facilitator from the metropolitan site reported that the training went very well. The rural sites experienced difficulties such as disconnections from the web conference, delays in the PowerPoint presentation becoming available on their computer screen and issues related to the sound quality of the teleconference.

Organising the session
All the facilitators commented on the support and organisation provided by the NSW Department of Health in arranging the session. One site experienced local difficulties when organising the session, these included:
- accessing a speakerphone for the teleconference close to the training area
- securing a room suitable for the training session.

Delivery of Epi Info training by web and teleconferencing across the state
Overall the facilitators were positive about the prospect of Epi Info training being delivered to public health units via web and teleconferencing. However, at the same time the facilitators highlighted that there needed to be a certain degree of confidence that there would not be ongoing disconnections during a web conference. Facilitators suggested that recommendations be developed on the number of sites and number of participants at each of the sites joining the training in order for the session to be a positive learning experience. All facilitators reported that the workbook was an excellent resource.

Table 4. Sound quality of teleconference reported by 12 participants across three sites

| Sound quality | Participants (n) |
|---------------|-----------------|
| Good          | 1               |
| Average       | 7               |
| Poor          | 4               |

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Potential applications of web conferencing

The discussion highlighted that web conferencing could have many applications for the public health network. Web conferencing could expand the opportunities for rural public health professionals to participate in training. Even for metropolitan sites, where there is a greater availability of training opportunities, it was useful for staff to receive training at their office, particularly when this facilitated learning with their colleagues.

Suggested applications in public health practice included:
- obtaining assistance from the Department of Health at the time of an outbreak investigation with the design and analysis of a database in Epi Info
- providing training for Environmental Health Officers; for example, on tobacco control, as visual images such as examples of advertising could be easily displayed on the computer screen
- working in collaboration with health professionals within the newly established Area Health Services to annotate documents in real time.

Delivery of continuing professional development activities by web conferencing

Facilitators provided suggestions on ways of improving the web conference session. These included using the functions of web conferencing such as ‘raise hand’ and ‘chat’ to ask questions, because when participants asked questions through the teleconference it interrupted the flow of the session.

Discussion

This evaluation of using web and teleconferencing to deliver training was performed on a small pilot study involving 12 public health professionals on one occasion of training. The content of the session and the organisation of its delivery were carefully undertaken. Consequently these results provide an insight into some of the issues associated with providing professional development activities through these communication techniques as an alternative to face-to-face delivery for a selected and motivated group of participants. The major limitation of this pilot was, therefore, that there was only one training event and consequently the external variables that influence the quality of delivery could not be investigated in subsequent training sessions.

Epi Info training

The participants reported that their feelings of confidence in applying Epi Info increased in three of the four parameters measured: developing a questionnaire; entering data; and conducting an analysis. This suggests that the Epi Info training session provided participants with an overview of the various functions of the software and therefore fulfilled one of the objectives of the training.

However, this did not extend to their confidence in interpreting findings. Possible explanations for this include: the way in which the training session was constructed and the time allowed for discussion of the results of the analysis. This finding may also reflect the participants pre-existing level of knowledge and skills in undertaking the interpretation of the results of quantitative data analyses. Those who had previous training in epidemiology may have had greater confidence in the analysis component.

The level of skill attained by participants was not assessed. While participants reported improved confidence and familiarity in using Epi Info, this does not necessarily reflect appropriate use of the software.

Delivery of training

Prior to this training, none of the participants had used web conferencing. This highlights the need to provide a session to introduce web conferencing. The willingness of half the participants to attend the web conferencing training suggests a high level of interest and motivation in this group and differs from the experiences reported in the literature. The literature reports low levels of participation when preparatory training is offered and that most people using web conferencing only come to ‘grips’ with technology at the time of the interaction.

Delivering training via web conferencing to a ‘virtual audience’ introduces its own unique set of challenges to the trainer. In particular, the absence of non-verbal cues makes it difficult to vary the pace of the presentation for the audience. To overcome this problem, the trainer arranged for one of the organisers of the session to work through the Epi Info exercises with the participants to gauge the time taken to complete the exercises. The literature confirms that the virtual group audience differs from its face-to-face counterparts and that there is a ‘new learning culture’ created by adopting computer technology.

Additional time is also required for discussing the analysis and its implications in managing an outbreak. In view of the wide range of skill levels of public health professionals in using Epi Info, there was support for a staged approach to delivering training. A facilitator also reported that there would be value in having someone familiar with Epi Info available at each of the sites to assist participants during the training session. There was also a suggestion of strengthening the Epi Info training by embedding the training in an outbreak scenario with a focus on study design, analysis and interpretation of results.

Web conferencing enabled the delivery of the PowerPoint presentation from the North Sydney site to all participants in real time, the teleconference provided the audio component. Facilitators indicated that other functions of web
conferencing such as ‘chat’ and ‘raise hand’ may provide less intimidating ways for participants to ask questions and also result in fewer interruptions for the whole group. This request may also be due to several participants experiencing poor sound quality from the teleconference. It is likely that these participants used a speakerphone rather than an audio conferencing system. Other factors that will influence the quality of the sound are the set up of the training room and the proximity of participants to an audio conferencing system.

Two of the four computers from the three sites became disconnected from the web conference. This was unexpected, as disconnections were not experienced during the web conferencing training hosted by Telstra Conferencing. Participants also reported intermittent delays with the PowerPoint slide becoming visible. Subsequent inquiries with Telstra Conferencing and the Information Technology Branch at the NSW Department of Health advised that the bandwidth can influence the quality of the delivery for web conferencing. Having either a large number of users or a small number using functions requiring greater bandwidth can affect the delivery.6

This pilot therefore demonstrated that there are bandwidth implications for web conferencing over the current network.6 If there are low-speed links or network congestion, participants will receive a poorer delivery and this may affect the learning experience. Consequently, information technology departments within area health services need to be consulted regarding the bandwidth capacity of the network for web conferencing, particularly in remote areas.

This pilot has also confirmed that a suitable venue and appropriate equipment are required for the successful delivery of training. Where there are many participants at one site, a data projector is preferable to a computer monitor to display the web conference.

The number of sites connected to the web conference and the number of participants at each site also affects the format of the session. With increasing number of sites or participants, the potential for interaction with the presenter is reduced. Box 2 summarises the advice that would be provided to facilitators at sites to improve the quality of the learning environment experienced by participants.

Despite the technical difficulties encountered, over half the participants reported that they would participate in a web conference for a continuing professional development activity. Participants also suggested several applications of web conferencing to assist them in their role, these included: delivery of training; and carrying out their duties more efficiently and effectively.

Box 2. Recommendations for site facilitators for managing a training session delivered through a combined web and teleconference

- All participants are invited to attend web conferencing training in advance to familiarise them with the technology
- The number of people participating at one site is restricted
- An audio conferencing system is used for the teleconference and that this is positioned close to participants.
- Each participant has access to a computer for the practical exercises
- The computer connected to the web conference is close to participants and if a data projector is available that this is used to view the presentation
- A conference or training room is used for the session.
- Remote sites have a public health professional familiar with Epi Info assist participants during the training session.
- The use of the web conferencing functions ‘chat’ and ‘raise hand’ be optional and coordinated by the facilitator
- The facilitator provide feedback to the remote trainer about the progress of participants at their site during the session
- The Information Technology Department within the Area Health Service is consulted in advance regarding the capacity of their network to web conferencing.

Conclusion
This pilot demonstrated that an interactive training session could be delivered using a combined web and teleconference. Simple measures were identified that can improve the quality of the learning environment, including the layout of the room (such as the proximity to phones and computers). However, there are information technology issues that should be explored before promoting its wider use. Despite this, web conferencing has the potential to increase equity of access to training for both metropolitan and rural public health professionals.

Recommendations
1. Further pilots could be undertaken to support the development of web conferencing to deliver training, in particular to describe:
   a. types of continuing professional development activities that are suitable
   b. the implications on the network system and ways of managing this.
2. A series of guidelines could be produced that describe:
   a. how to organise continuing professional development activity via web conferencing
   b. how to use teleconferencing for a range of activities including advice on the technical requirements.

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Appendix 1. Evaluation of Epi Info training via web conferencing

Part A:
Please complete Part A before the training

Thank you for filling in this evaluation of Epi Info training via web conferencing. Your responses will provide us with a better understanding of the efficacy of web conferencing Epi Info Training, and will assist us in improving the delivery.

1. Transmission site ________________________________

2. Are you: □ Female  □ Male

3. Your age group:
   □ 20–29  □ 30–39  □ 40–49  □ 50–59  □ 60–69

4. What is your job title here? ____________________________

5. Have you previously been involved in the investigation of a foodborne outbreak?
   □ Yes  □ No  □ Unsure
   
   If Yes, What was your role in the investigation process?
   __________________________________________________________
   __________________________________________________________

6. Have you previously used Epi Info?
   □ Yes  □ No  □ Unsure
If Yes,
Please tick the appropriate box to indicate your level of knowledge in using this software application?

- Good
- Satisfactory
- Poor

The next set of questions ask you to rate your confidence in using Epi Info in four areas using the following scale from 1 to 5, with 1 representing ‘not confident at all’ and 5 ‘extremely confident’.

7. Please rate your confidence in developing a questionnaire in Epi Info for a foodborne disease outbreak investigation.

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| Not confident at all | | | | Extremely confident |

8. Please rate your confidence in entering data into a questionnaire in Epi Info for a foodborne disease outbreak investigation.

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| Not confident at all | | | | Extremely confident |

9. Please rate your confidence in conducting basic analyses of foodborne disease outbreak data using Epi Info.

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| Not confident at all | | | | Extremely confident |

10. Please rate your confidence in interpreting the findings of an Epi Info analysis of foodborne disease outbreak data.

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| Not confident at all | | | | Extremely confident |
**Part B:**
Please complete Part B after the training

The next set of questions ask you to rate your confidence in using Epi Info following the training, using the following scale from 1 to 5, with 1 representing 'not confident at all' and 5 'extremely confident'.

| Question                                                                 | Rating Scale | Notes                          |
|------------------------------------------------------------------------|--------------|--------------------------------|
| 11. Please rate your confidence in developing a questionnaire in Epi Info for a foodborne disease outbreak investigation. | 1 | 2 | 3 | 4 | 5 | Extremely confident |
| 12. Please rate your confidence in entering data into a questionnaire in Epi Info for a foodborne disease outbreak investigation. | 1 | 2 | 3 | 4 | 5 | Extremely confident |
| 13. Please rate your confidence in conducting basic analyses of foodborne disease outbreak data using Epi Info. | 1 | 2 | 3 | 4 | 5 | Extremely confident |
| 14. Please rate your confidence in interpreting the findings of an Epi Info analysis of foodborne disease outbreak data. | 1 | 2 | 3 | 4 | 5 | Extremely confident |
| 15. Do you feel confident enough to apply Epi Info to foodborne disease outbreak investigations in the future? | Yes | No | Unsure |
If No, or unsure
Please explain

16. Do you have any suggestions on how the Epi Info training provided could be improved?

Today we used web conferencing as a way of delivering Epi Info training to you. The next few questions will be asking you about your experiences in using web conferencing.

17. Did you attend the web conferencing training in February 2005?
   ☐ Yes
   ☐ No

   If Yes,
   Did the feel that the web conferencing training prepared you for today’s Epi Info training?

18. Have you used web conferencing besides the training that you received in February 2005?
   ☐ Yes
   ☐ No
   ☐ Unsure

   If Yes,
   Please tick the appropriate box to indicate your level of knowledge in using web conferencing?
   ☐ High
   ☐ Satisfactory
   ☐ Low

   Can you please describe the types of situations where you have used web conferencing?
19. **How would you rate the quality of the sound from the teleconference?**
   - □ Good
   - □ Average
   - □ Poor

20. **How would you rate the quality of the picture on the computer screen?**
   - □ Good
   - □ Average
   - □ Poor

21. **When the presenter was speaking to a particular PowerPoint slide, did you find that there was a delay until the slide was visible on your computer screen?**
   - □ Yes
   - □ No
   - □ Unsure
   
   *If Yes, Can you please describe the delay experienced at your site?*

22. **Did any other aspect of the web conference detract from the Epi Info training for you?**
   - □ Yes
   - □ No

23. **What did you like most about participating in the Epi Info training via web conferencing?**

24. **What did you like least about participating in the Epi Info training via web conferencing?**

25. **Would you participate again in a web conference for a continuing professional development activity?**
   - □ Yes
   - □ No
   - □ Unsure
If No, 
Please explain

________________________________________________________________________

________________________________________________________________________

26. Are there any other comments you would like to make?

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Thank you for taking the time to complete this evaluation. 
The facilitator will collect the completed evaluation form from you.
Appendix 2. Questions for focus group

Thank you for agreeing to take part in this debrief on the web conferencing of Epi Info training. This afternoon we have five questions, which we would like to ask you regarding the utility of web conferencing. We would like to run this focus group as a discussion.

If no one has any objections we would also like to record this focus group.

1. What are your overall impressions of today’s training?

2. Did you experience any difficulties with organising this session?
   a. Did you experience any difficulties with using the web conference?

3. From what you observed today, do you think it would be worthwhile to rollout Epi Info across the state using web conferencing?

4. From your observations today, can you see any other potential applications of web conferencing in your work?

5. From your observations today, do you think web conferencing would be useful to deliver continuing professional development activities to your staff?