





Project Firstline **Session Plans**

Topic Fourteen:
Asymptomatic Spread of COVID-19

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Overview of Sessions

The following Session Plans for **Topic Fourteen: Asymptomatic Spread of COVID-19** are to help guide you, as a provider of the Project Firstline training, with the necessary support to use Project Firstline materials to create well-rounded training events and educate your audience about infection control.

Facilitator Instructions

Choose Your Session

There are three different session lengths for you to choose from based on time available for training:

- 60 minutes (e.g., dedicated training session)
- 20 minutes (e.g., "Lunch and Learn" or agenda add-on)
- 10 minutes (e.g., "micro-learning" or agenda add-on)

Due to time constraints, the 10- and 20-minute sessions will have less opportunity for interactive discussion. We invite you to extend sessions for greater engagement whenever possible. We have also provided recommendations for using chat functions and other activities to draw your audience into the materials when you are limited to only short amount of time.

These time lengths are not intended to be prescriptive and are instead provided simply as a tool that you may tailor to best match your specific audience and needs. When you schedule your session, use your knowledge of your audience's availability and learning needs to adapt these materials as needed.

Session Materials

- Three different Session Plans: 60 minutes, 20 minutes, and 10 minutes
- Corresponding PowerPoint slide decks: 60 minutes, 20 minutes, and 10 minutes
- Links to Project Firstline videos: Inside Infection Control by CDC's Project Firstline

Using the Materials

The sample materials are presented in sequence, with the expectation that participants will progress through the series. You may, however, mix and match content to meet participant needs. Following are things to know:

- Use the plans and slides as guides for your presentation.
- The slide numbers in the Session Plans correspond to the companion slide decks provided.
- We encourage you to customize the look and feel of the presentations and to adapt the facilitator script to better match your own voice and audience.
- The time recommendations are provided simply as a guide for the minimum amount of time needed for each section. We encourage you to take more time, as needed, with specific sections.

Conducting a Session

Schedule and announce the sessions according to your organization's needs and requirements. Each session should include at least the following:

Each session should include, at a minimum:

- Specific learning objectives
- Presentation of core content
- Opportunities to understand and engage with the key messages for each topic

Each session should also give participants the opportunity to learn more, to understand and connect internally with the content, and to act on their learning and engage with others.

Additional guidance for facilitators and information about other topics covered in the series are provided in the Project Firstline Facilitator Toolkit Guide.

Educational Content Outline

Topic Fourteen: Asymptomatic Spread of COVID-19

Content Summary: People who are infected with SARS-CoV-2, the virus that causes COVID-19, can spread the virus to others even if they don't feel sick. That's because even mild infections that we don't notice can produce virus in the throat and lungs; that virus comes out with respiratory droplets people make when they talk, breathe, cough, or otherwise blow air out of their nose or mouth.

Inside Infection Control Videos:

- Episode 24: How Does COVID-19 Spread When You Don't Feel Sick?
- (Optional) <u>Episode 3: What's a Virus?</u>

Inside Infection Control Video Content Outlines: For reference, <u>Content Outlines</u> for the videos presented in this session are provided as an appendix to this document.

Learning Objectives

- Explain how a person can be infected with SARS-CoV-2 and not feel sick but can still spread the virus to others.
 - ▶ People can be infected with a virus, and their immune system can be working to fight it off, but they might not feel sick with symptoms such as fever, cough, shortness of breath, or other signs of disease.
 - Someone might have been infected recently but hasn't started feeling sick yet, though they might in a couple of days. That's called "pre-symptomatic" infection.
 - Someone might be infected and will never feel any symptoms at all. That's called "asymptomatic" infection.
 - ▶ Even mild infections produce virus in people's throat and lungs that comes out with respiratory droplets they make when they talk, breathe, cough, or otherwise blow air out of their nose or mouth.
- Discuss one (1) reason why infection control recommendations for COVID-19, such as masking for source control, are in place in healthcare settings.
 - Some people who are infected with SARS-CoV-2, the virus that causes COVID-19, don't actually know it, because they aren't feeling any symptoms. Even though they don't look or feel sick, they can still spread the virus.

- ► This happens because the virus that is in their body is also in their respiratory droplets.
 - Those droplets can land on someone's eyes, nose, or mouth, or someone can breathe them into their throat and lungs, where the virus in the droplets can start attacking that person's cells.
 - Respiratory droplets can also fall on surfaces, where they can be picked up and spread to others.

Sessions at a Glance

Topic Fourteen:

Asymptomatic Spread of COVID-19

Session Plans and When to Use:

- 60 minutes (e.g., dedicated training session)
- 20 minutes (e.g., "Lunch and Learn" or agenda add-on)
- 10 minutes (e.g., "micro-learning" or agenda add-on)

Format:

• Online, synchronous

Special Supplies:

- Registration list
- Participant booklet
- Session feedback form
- Timekeeper



60-Minute Session Plan

1. Session Start



Slide 1: Opening Slide

Participants log in and get settled.

2. Agenda, Learning Objectives, and Introductions



10 minutes



Slide 2: Agenda



Facilitator Notes

- Welcome
- Housekeeping, either orally or via chat
 - ▶ If needed, additional notes specific to the platform you're using (e.g., how to "raise your hand," how to post questions)
- Overview of agenda
- If this session is part of an ongoing series, you may choose to say, "welcome back," "thank you for joining us again," etc.



Sample Script

"Welcome to Project Firstline. Thank you for joining us! Before we begin, a few housekeeping notes. We'll meet today for one hour. Please keep your videos on, to the extent possible, and keep your microphone muted when you are not contributing to the discussion. It's great to see you all here today!

"Today, we're going to review how viruses work, and how they can be spread, even when an infected person doesn't feel sick. We'll have an opportunity to discuss and reflect together before we wrap up for the day."



Slide 3: Learning Objectives



Facilitator Notes

Provide an overview of the session's learning objectives.



Sample Script

"After today, you'll be able to explain how a person can be infected with SARS-CoV-2 and not feel sick but can still spread the virus to others and discuss why infection control recommendations like masking for source control are in place in healthcare settings."



Slide 4: Introductions



Facilitator Notes

- These questions will give you a better understanding of your participants' backgrounds, experience, and level of knowledge.
- Tailor your slide delivery for the virtual format and platform, and the number of participants:
 - ▶ You may wish to add role- or facility-specific questions to the introductions.
 - ▶ If you have a large group, you may decide to skip introductions and use the chat or poll feature for introductions.
- Be sure to introduce yourself and anyone who is assisting you.



Sample Script

"Please share in 30 seconds or less your name and your role."





Facilitator Notes

 Use the poll feature for your virtual platform to ask participants about their experiences with COVID-19 at the workplace.

I work in a facility that has treated

- People with COVID-19 who were very sick (e.g., fever, fatigue, difficulty breathing),
- People with COVID-19 who had mild symptoms (e.g., cold symptoms), or
- ☐ People with COVID-19 who had no symptoms.
- If the platform you are using does not have a poll feature, you may choose to ask participants to enter their responses in the chat.



Sample Script

"Thank you, and welcome again! Now, let's think about our own experience at work. Please select all that apply."

(Pause for participants to respond to poll options, then display poll results.)

"So, it looks like many of us have worked in a facility that has treated people with COVID-19, with different symptoms, or no symptoms at all. We're going to talk more about this today. Thank you for sharing!"



Slide 6: How do viruses work?



Facilitator Notes

- This slide provides a review of information delivered in *Inside Infection Control* Episode 3: What's a Virus?
- If time allows, you can show that episode (https://www.youtube.com/ watch?v=iKfG15U8nVo) or share the link with participants to view on their own after the session for more information.
- You may also choose to refer to the Content Outline for Episode 3 of *Inside Infection Control* to help guide discussion.



"Let's briefly review some basic information about viruses.

"Viruses are able to use cells in living things, including people, to make copies of themselves. When enough virus gets into a person's cells and starts making copies of itself, the body can recognize that there's an infection, and the immune system revs up to fight off the virus. It's the activity of the immune system fighting the virus that generally makes us feel sick.

"If a person is infected with SARS-CoV-2, the virus that causes COVID-19, it can be spread by their respiratory droplets. Those droplets, with virus in them, are released into the air when the infected person talks, breathes, coughs, or otherwise blows air out of their nose or mouth. The respiratory droplets can then land on someone else's eyes, nose, or mouth, or someone can breathe them into their throat or lungs, where the virus in the droplets can start attacking the person's cells."

3. Video and Discussion



15 minutes



Slide 7: Video: How can COVID-19 spread when you don't feel sick?



Facilitator Notes

Access the video here:

CDC Website: https://www.cdc.gov/infectioncontrol/projectfirstline/videos/EP19-Strains-LowRes.mp4



OR

Project Firstline YouTube Playlist: https://www.youtube.com/ watch?v=GPahzFodDU8&feature=youtu.be

• Encourage participants to make note of the two ways that people who are infected with virus, but who don't feel sick, can spread virus.



Sample Script

"Let's hear from the CDC's Dr. Abby Carlson and find out more about how viruses like SARS-CoV-2 can spread, even from someone who is infected but who doesn't feel sick. Dr. Carlson mentions two ways this can happen. Jot down what you hear in your participant booklet, and we'll discuss the two ways after the video."



Slide 8: People Who Don't Feel Sick Can Spread Virus



Facilitator Notes

- Link the information about viruses to the video content.
- You may also choose to refer to the Content Outline for Episode 24 of Inside Infection Control to help guide discussion.

- Participants may have questions about whether people who are fully vaccinated against COVID-19 can still transmit virus. You may choose to direct them to CDC resources:
 - ► When You've Been Fully Vaccinated:
 https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated.html
 - ➤ Science Brief: COVID-19 Vaccines and Vaccination:

 https://www.cdc.gov/coronavirus/2019-ncov/science/science-briefs/fully-vaccinated-people.html



"As we heard in the video, people can be infected with a virus and their immune system can be working – and they might not feel sick. Even if they don't feel sick, they can spread the virus to others. It's important to know and remember this when you're thinking about infection control."



Slide 9: Definitions



Facilitator Notes

Review the definitions of "pre-symptomatic infection" and "asymptomatic infection."

- Pre-symptomatic infection is when a person has been infected with a virus and hasn't started feeling sick yet but will develop symptoms.
- Asymptomatic infection is when a person is infected with a virus and will never feel any symptoms at all.



Sample Script

"Let's review the two ways people can be infected and not feel sick that Dr. Carlson mentioned in the video. 'Pre-symptomatic infection' means that a person is infected with a virus but hasn't started feeling sick yet – but they probably will soon. 'Asymptomatic infection' means that a person is infected with a virus but does not feel any symptoms at all. As you heard from Dr. Carlson, this can make it harder to control the spread of infectious diseases, because people don't always know that they have an infection, or that they're contagious and can spread it to others."



Slide 10: Recognizing People Who Are Contagious



Facilitator Notes

- This slide has animation. When you advance to the slide, only the pictures of people will appear.
- Ask participants to look at the people on the slide and see if they can tell who is infected with COVID-19.
 - Encourage participants to guess, either orally or in the chat, or both.
- After participants have had a chance to respond, trigger animation to clarify that even people who seem healthy and exhibit no symptoms might have COVID-19 and be able to spread the SARS-CoV-2 virus.



Sample Script

"Now let's do a little detective work. Can you guess which of these people has COVID-19 and may be contagious?"

(Pause for responses.)

"We can't tell, can we? Lots of people are infected with the virus, but don't show symptoms!"



Slide 11: Did you know?



Facilitator Notes

- This slide has animation. When you advance to the slide, only the first column will appear.
- After participants have had a chance to respond, trigger animation for the content in the second column to appear:
 - ▶ People with flu are most contagious in the first 3-4 days after their illness begins.
 - ▶ Some otherwise healthy adults may be able to infect others beginning 1 day before symptoms develop and up to 5 to 7 days after becoming sick.
 - Some people, especially young children and people with weakened immune systems, might be able to infect others with flu viruses for an even longer time.

- You may wish to refer to CDC resources for additional discussion points:
 - ► How Flu Spreads: https://www.cdc.gov/flu/about/disease/spread.htm
 - ► Flu Symptoms & Diagnosis: https://www.cdc.gov/flu/symptoms/index.html



"Dr. Carlson mentioned that people can spread diseases other than COVID-19 without showing any symptoms. This also happens with the flu. **Does that seem to match with your personal experience?"**

(Pause for responses.)

"That's right. You may be able to pass on flu to someone else before you know you are sick, as well as while you are sick. And not everyone with flu will get a fever or have the symptoms you may be used to looking for."



Slide 12: Controlling the Spread



Facilitator Notes

- This slide has animation. When you advance to the slide, only the first column will appear.
- Encourage participants, either orally or in the chat, to link their knowledge to action:
 - We know that people who are infected with SARS-CoV-2, but who do not show symptoms, can still spread virus.
 - ► "What actions should we take?"
- When appropriate, advance the slide to reveal the second column.



Sample Script

"So, let's review. People who are pre-symptomatic or asymptomatic – who aren't feeling any symptoms, but who are infected with virus – can still spread COVID-19. Why does this matter? How can we use this information in our work?"

(Pause for responses. When appropriate, trigger animation.)

"Right! Because we can't tell who may be infected and able to infect others, all of our infection control actions are still important – including masking for source control."

4. Breakout Groups and Discussion



25 minutes



Slide 13: Breakout Groups



Facilitator Notes

- Transition to small-group breakouts and discussion.
- Invite participants to think through, on a typical day, how many people they come into contact with – at work, and in the community and at home.
- Then, ask participants to think about how many of those interactions happened when both persons were masked, when one was masked and not the other, and when both were not masked.
- You may wish to reframe this discussion, depending upon your context and audience.



Sample Script

"Let's take a few minutes split into groups for some deeper discussion. Before we divide up, I want you to take 3 minutes to think about your day and how many people you come into contact with. This should include your family or other people you live with, people you encounter on your commute, your co-workers, and others you encounter in your workday, such as patients and families.

"Once you have that number, think about how many of those interactions occurred when you and the other person were masked, when one of you was masked and the other wasn't, and when neither of you was masked. Try to come up with a number for each. Feel free to jot down your thoughts in your Participant Booklet."

(Pause for 3 minutes.)

"Does everyone have their number? Great!"



Slide 14: Breakout Groups, Continued



Facilitator Notes

- Use breakout rooms appropriate to your virtual platform to divide participants into small groups, and task them with discussing the numbers of interactions, and types of interactions, that they observed in their own experiences, as well as the implications of their interactions: "if you cross paths with 10 people, and each of them has crossed paths with 10 people, what does that mean for potential exposures?"
 - ▶ The number and size of the groups will vary, but it is best if there are no more than five people in each small group.
 - ▶ If applicable and possible, try to create groupings of participants who haven't yet had an opportunity to speak together during the training.
- As needed, provide instructions related to the breakout room format, such as how to ask questions.
- Inform the groups that they have 10 minutes to work together. Use your chime or timekeeper to warn participants when they have 1 minute remaining.
- Ask each group to identify a spokesperson who will share the group's ideas when everyone reconvenes.
- After the small groups have gathered, depending on your virtual platform, you may use the broadcast message feature or another means to send reminders of the scenarios, how much time is remaining, etc. You may also choose to "visit" each group to encourage conversation and to hear their thoughts.
 - ▶ If groups appear to need additional guidance, you could choose to prompt them with questions about whether they were surprised by their own or others' numbers; how their numbers may vary from day to day; what factors may contribute to their numbers, etc.



Sample Script

"With that, we're going to move into breakout groups. Once you're there, I'd like to you to share your answers with your group and discuss your reactions and thoughts. I'd also like you to think about the effects of all your interactions – what does it mean if you've interacted with 10 people, and each of them has interacted with 10 people, who have interacted with 10 people?

"We'll come back together in 10 minutes to report to the whole group. Please choose one person in your small group to be your spokesperson."

(Allow 10 minutes for the groups to discuss their numbers, giving a warning when there is 1 minute left. Reconvene the groups from their breakout rooms.)





Facilitator Notes

- When the entire group has reconvened, ask a spokesperson from each group to report on their discussion. You may wish to capture high-level points on a separate slide or in the chat.
- You may wish to lead discussion by:
 - Asking each group to share their highest number of interactions
 - For the highest number of all, ask that group to share why the number was so high (e.g., do they live with a lot of people? Take crowded public transportation to work? Work in a setting where they interact with a lot of people?).
 - Asking whether they were surprised, or not, by their groups' numbers
 - Asking them to reflect on contributing factors that made the number higher or lower, and whether there is variety in their daily routines
 - ➤ Asking them to discuss the effects of their interactions: "What does it mean if you've interacted with 10 people, and each of them has interacted with 10 people, who have interacted with 10 people? What would it mean if you were in a room with all those people?"
 - Asking them to think about times they, or someone they know, has gotten a cold or the flu but can't remember being around someone who was sick
- After each group's report has been shared, lead the entire group in discussion:
 - ▶ What points were raised often?
 - ▶ Were any points raised by other groups that surprised you?
 - ► How are you thinking about your interactions in the community and at home differently since the pandemic? At work?
 - ▶ Depending upon the context and the makeup of your audience, you may choose to incorporate points from CDC guidance related to source control and physical distancing at work for vaccinated healthcare workers from CDC's Updated Healthcare Infection Prevention and Control Recommendations in Response to COVID-19 Vaccination page: https://www.cdc.gov/coronavirus/2019-ncov/hcp/infection-control-recommendations.html



"Welcome back! I'm looking forward to hearing what everyone had to say. Group 1, can we hear from your spokesperson?"

(Ask a spokesperson from each group, in turn, to share the group's observations. Acknowledge the responses as appropriate and encourage additional conversation and reflection.)

"Thank you all so much for your thoughtful comments. Let's discuss some of the points that were raised. **Did any of the points raised surprise you?**"

(Acknowledge responses and encourage additional discussion as appropriate.)



Slide 16: Questions?



Facilitator Notes

- Invite additional, remaining questions.
- If the answers are information that is already included in this session, please respond.
- If the questions address content that is not covered in this session, please do not attempt to answer the questions. Instead, take note of the questions and consult with CDC resources to follow up with answers after the session.



Sample Script

"Thank you for sharing! Does anyone have any questions still remaining?"

(Address questions as appropriate.)

"Thank you for sharing those questions. Project Firstline is actively collecting your questions to help inform more training resources as they're developed. I've written them down and I will get back to you with responses."

5. Reflection and Wrap-Up



10 minutes



Slide 17: Reflection



Facilitator Notes

Encourage participants to reflect on the content of the session and how they will put their knowledge into practice.



Sample Script

"Thank you all so much for that thoughtful discussion! Let's use our last few minutes together to reflect on what we've learned and think about how we can put what we've learned into practice."



Slide 18: What did you learn today?



Facilitator Notes

Invite participants to share what they learned during the session, and what they appreciated or found interesting.



Sample Script

"I'd love to hear from you about what you learned today about asymptomatic spread and what you found most interesting. **Would anyone like to share?**"

(Acknowledge and address responses.)



Slide 19: Key Takeaways



Facilitator Notes

- Review key takeaways.
- You may choose to revisit discussion points or questions that arose during the session.



Sample Script

"I hope you enjoyed today's conversation. I've captured some key takeaways here, which you can review at your leisure after the session today."



Slide 20: Applying What You've Learned



Facilitator Notes

- Encourage participants to identify one thing they will need to do, or continue to do, in their work to protect themselves and others from diseases that can spread when people are infected but they may not look or feel sick. They may come off mute and speak, or type in the chat, or both.
 - ► Acknowledge responses, as appropriate.
- As appropriate, make connections between participants' responses and the material from the session.



Sample Script

"As we just heard, you've learned a lot today. I'd like you to identify one thing you'll need to do, or continue to do, in your work to protect yourself and others from diseases that can spread when people are infected but may not look or feel sick. Please feel free to come off mute or share in the chat."

(Pause for responses and acknowledge them.)



Slide 21: Resources and Future Training Sessions



Facilitator Notes

- Share additional resources from Project Firstline and CDC.
- Explain how participants can reach you, by the means of your choosing, and how they can reach Project Firstline.
- If this session is part of a series, you may choose to describe the themes of upcoming sessions.



Sample Script

"That's great, thank you. We covered a lot today, and there is still more to learn. You can keep exploring these topics on your own using the resources on this slide. You can also follow us on social media.

(If this session is part of a series) "Next time, we will cover [insert next training topic]."



Slide 22: Feedback Form



Facilitator Notes

Explain how to access the feedback form.



Sample Script

"And, finally, please let us know how you enjoyed today's session by completing the following feedback form. Thanks again for joining us today."

After the Session



Send list of participant questions compiled during this session to $\underline{\text{ProjectFirstline@cdc.gov}}.$



20-Minute Session Plan

1. Session Start



Slide 1: Opening SlideParticipants log in and get settled.

2. Agenda, Learning Objectives, and Introductions



4 minutes



Slide 2: Agenda



Facilitator Notes

- Welcome
- Housekeeping, either orally or via chat
 - ▶ If needed, additional notes specific to the platform you're using (e.g., how to "raise your hand," how to post questions)
- Overview of agenda
- If this session is part of an ongoing series, you may choose to say, "welcome back," "thank you for joining us again," etc.



Sample Script

"Welcome to Project Firstline. Thank you for joining us! Before we begin, a few housekeeping notes. We'll meet today for 20 minutes. Please keep your videos on, to the extent possible, and keep your microphone muted when you are not contributing to the discussion. It's great to see you all here today!

"Today, we're going to review how viruses work, and how they can be spread, even when an infected person doesn't feel sick. We'll have an opportunity to discuss and reflect together before we wrap up for the day."



Slide 3: Learning Objectives



Facilitator Notes

Provide an overview of the session's learning objectives.



Sample Script

"After today, you'll be able to explain how a person can be infected with SARS-CoV-2 and not feel sick but can still spread the virus to others and discuss why infection control recommendations like masking for source control are in place in healthcare settings."



Slide 4: Poll



Facilitator Notes

Use the poll feature for your virtual platform to ask participants about their experiences with COVID-19 at the workplace.

I work in a facility that has treated

- People with COVID-19 who were very sick (e.g., fever, fatigue, difficulty breathing),
- People with COVID-19 who had mild symptoms (e.g., cold symptoms), or
- □ People with COVID-19 who had no symptoms.
- If the platform you are using does not have a poll feature, you may choose to ask participants to enter their responses in the chat.



Sample Script

"Now, let's think about our own experience at work. Please select all that apply."

(Pause for participants to respond to poll options, then display poll results.)

"So, it looks like many of us have worked in a facility that has treated people with COVID-19 with different symptoms or no symptoms at all. We're going to talk more about this today. Thank you for sharing!"



Slide 5: How do viruses work?



Facilitator Notes

- This slide provides a review of information delivered in *Inside Infection Control* Episode 3: What's a Virus?
- If time allows, you can show that episode (https://www.youtube.com/ watch?v=iKfG15U8nVo) or share the link with participants to view on their own after the session for more information.
- You may also choose to refer to the Content Outline for Episode 3 to help guide discussion.



Sample Script

"Let's briefly review some basic information about viruses.

"Viruses are able to use cells in living things, including people, to make copies of themselves. When enough virus gets into a person's cells and starts making copies of itself, the body can recognize that there's an infection, and the immune system revs up to fight off the virus. It's the activity of the immune system fighting the virus that generally makes us feel sick.

"If a person is infected with SARS-CoV-2, the virus that causes COVID-19, it can be spread by their respiratory droplets. Those droplets, with virus in them, are released into the air when the infected person talks, breathes, coughs, or otherwise blows air out of their nose or mouth. The respiratory droplets can then land on someone else's eyes, nose, or mouth, or someone can breathe them into their throat or lungs, where the virus in the droplets can start attacking the person's cells."

3. Video and Discussion



10 minutes



Slide 6: Video: How can COVID-19 spread when you don't feel sick?



Facilitator Notes

Access the video here:

CDC Website: https://www.cdc.gov/infectioncontrol/projectfirstline/videos/EP24-NoSymptoms-LowRes.mp4

OR

Project Firstline YouTube Playlist:

https://www.youtube.com/watch?v=GPahzFodDU8&feature=youtu.be

• Encourage participants to make note of the two ways that people who are infected with virus, but who don't feel sick, can spread virus.



Sample Script

"Let's hear from the CDC's Dr. Abby Carlson and find out more about how viruses like SARS-CoV-2 can spread, even from someone who is infected but who doesn't feel sick. Dr. Carlson mentions two ways this can happen. Jot down in your participant booklet what you hear, and we'll discuss the two ways after the video."



Slide 7: People Who Don't Feel Sick Can Spread Virus



Facilitator Notes

- Link the information about viruses to the video content.
- You may also choose to refer to the Content Outline for Episode 24 of Inside Infection Control to help guide discussion.
- Participants may have questions about whether people who are fully vaccinated against COVID-19 can still transmit virus. You may choose to direct them to CDC resources:
 - ► When You've Been Fully Vaccinated: https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated.html
 - ► Science Brief: COVID-19 Vaccines and Vaccination: https://www.cdc.gov/coronavirus/2019-ncov/science/science-briefs/fully-vaccinated-people.html



Sample Script

"As we heard in the video, people can be infected with a virus, and their immune system can be working – and they might not feel sick. Even if they don't feel sick, they can spread the virus to others. It's important to know and remember this when you're thinking about infection control."



Slide 8: Definitions



Facilitator Notes

Review the definitions of "pre-symptomatic infection" and "asymptomatic infection."

- Pre-symptomatic infection is when a person has been infected with a virus and hasn't started feeling sick yet but will develop symptoms.
- Asymptomatic infection is when a person is infected with a virus and will never feel any symptoms at all.



Sample Script

"Let's review the two ways people can be infected and not feel sick that Dr. Carlson mentioned in the video. 'Pre-symptomatic infection' means that a person is infected with a virus but hasn't started feeling sick yet – but they probably will soon. 'Asymptomatic infection' means that a person is infected with a virus but does not feel any symptoms at all. As you heard from Dr. Carlson, this can make it harder to control the spread of infectious diseases, because people don't always know that they have an infection, or that they're contagious and can spread it to others."



Slide 9: Recognizing People Who Are Contagious



Facilitator Notes

- This slide has animation. When you advance to the slide, only the pictures of people will appear.
- Ask participants to look at the people on the slide and see if they can tell who is infected with COVID-19.
 - ▶ Encourage participants to guess, either orally or in the chat, or both.
- After participants have had a chance to respond, trigger animation to clarify that even people who seem healthy and exhibit no symptoms might have COVID-19 and be able to spread the SARS-CoV-2 virus.



"Now let's do a little detective work. Can you guess which of these people has COVID-19 and may be contagious?"

(Pause for responses.)

"We can't tell, can we? Lots of people are infected with the virus, but don't show symptoms!"



Slide 10: Did you know?



Facilitator Notes

- This slide has animation. When you advance to the slide, only the first column will appear.
- After participants have had a chance to respond, trigger animation for the content in the second column to appear:
 - ▶ People with flu are most contagious in the first 3 to 4 days after their illness begins.
 - ▶ Some otherwise healthy adults may be able to infect others beginning 1 day before symptoms develop and up to 5 to 7 days after becoming sick.
 - ▶ Some people, especially young children and people with weakened immune systems, might be able to infect others with flu viruses for an even longer time.
- You may wish to refer to CDC resources for additional discussion points:
 - ► How Flu Spreads: https://www.cdc.gov/flu/about/disease/spread.htm
 - ► Flu Symptoms & Diagnosis: https://www.cdc.gov/flu/symptoms/index.html



Sample Script

"Dr. Carlson mentioned that people can spread diseases other than COVID-19 without showing any symptoms. This also happens with the flu. **Does that seem to match with your personal experience?**"

(Pause for responses.)

"That's right. You may be able to pass on flu to someone else before you know you are sick, as well as while you are sick. And not everyone with flu will get a fever or have the symptoms you may be used to looking for."



Slide 11: Controlling the Spread



Facilitator Notes

- This slide has animation. When you advance to the slide, only the first column will appear.
- Encourage participants, either orally or in the chat, to link their knowledge to action:
 - ▶ We know that people who are infected with SARS-CoV-2, but who do not show symptoms, can still spread virus.
 - "What actions should we take?"
- When appropriate, advance the slide to reveal the second column.



Sample Script

"So, let's review. People who are pre-symptomatic or asymptomatic – who aren't feeling any symptoms, but who are infected with virus – can still spread COVID-19. Why does this matter? How can we use this information in our work?"

(Pause for responses. When appropriate, trigger animation.)

"Right! Because we can't tell who may be infected, and able to infect others, all of our infection control actions are still important – including masking for source control."

4. Reflection and Wrap-Up



6 minutes



Slide 12: Reflection



Facilitator Notes

Encourage participants to reflect on the content of the session and how they will put their knowledge into practice.



"Thank you all so much for that thoughtful discussion! Let's use our last few minutes together to reflect on what we've learned and think about how we can put what we've learned into practice."



Slide 13: Wrap-Up



Facilitator Notes

- Invite participants to share what they learned during the session, and one thing they'll need to do, or continue to do, in their work to protect themselves and others from diseases that can spread when people are infected but may not look or feel sick. They may come off mute and speak, or type in the chat, or both.
 - As appropriate, make connections between participants' responses and the material from the session.
- Invite additional, remaining questions.
- If the answers are information that is already included in this session, please respond.
- If the questions address content that is not covered in this session, please do not attempt to answer the questions. Instead, take note of the questions and consult with CDC resources to follow up with answers after the session.



Sample Script

"I'd love to hear from you about what you learned today about asymptomatic spread, and if you have identified one thing you'll need to do, or continue to do, in your work to protect yourself and others from diseases that can spread when people are infected but may not look or feel sick. **Would anyone like to share?**"

(Acknowledge and address responses.)

"Thank you for sharing! Does anyone have any questions still remaining?"

(Address questions as appropriate.)

"Thank you for sharing those questions. Project Firstline is actively collecting your questions to help inform more training resources as they're developed. I've written them down, and I will get back to you with responses."



Slide 14: Key Takeaways



Facilitator Notes

- Review key takeaways.
- You may choose to revisit discussion points or questions that arose during the session.



Sample Script

"I hope you enjoyed today's conversation. I've captured some key takeaways here, which you can review at your leisure after the session today."



Slide 15: Resources and Future Training Sessions



Facilitator Notes

- Share additional resources from Project Firstline and CDC.
- Explain how participants can reach you, by the means of your choosing, and how they can reach Project Firstline.
- If this session is part of a series, you may choose to describe the themes of upcoming sessions.



Sample Script

"We covered a lot today, and there is still more to learn. You can keep exploring these topics on your own using the resources on this slide. You can also follow us on social media."

(If this session is part of a series) "Next time, we will cover [insert next training topic]."



Slide 16: Feedback Form



Facilitator Notes

Explain how to access the feedback form.



"And, finally, please let us know how you enjoyed today's session by completing the following feedback form. Thanks again for joining us today."

After the Session



Send list of participant questions compiled during this session to $\underline{\text{ProjectFirstline@cdc.gov}}.$



10-Minute Session Plan



Slide 1: Opening Slide

Participants log in and get settled.



Slide 2: Agenda



Facilitator Notes

- Welcome
- Housekeeping, either orally or via chat
 - ▶ If needed, additional notes specific to the platform you're using (e.g., how to "raise your hand," how to post questions)
- Overview of agenda
- If this session is part of an ongoing series, you may choose to say, "welcome back," "thank you for joining us again," etc.



Sample Script

"Welcome to Project Firstline. Thank you for joining us! Before we begin, a few housekeeping notes. We'll meet today for 10 minutes. Please keep your videos on, to the extent possible, and keep your microphone muted when you are not contributing to the discussion. It's great to see you all here today!

"Today, we're going to review how viruses can spread, even when an infected person doesn't feel sick. We'll have an opportunity to discuss and reflect together before we wrap up for the day."



Slide 3: Learning Objectives



Facilitator Notes

Provide an overview of the session's learning objectives.



"After today, you'll be able to explain how a person can be infected with SARS-CoV-2 and not feel sick but can still spread the virus to others and discuss why infection control recommendations like masking for source control are in place in healthcare settings."



Slide 4: Video: How can COVID-19 spread when you don't feel sick?



Facilitator Notes

Access the video here:

CDC Website: https://www.cdc.gov/infectioncontrol/projectfirstline/videos/EP24-NoSymptoms-LowRes.mp4

OR

Project Firstline YouTube Playlist: https://www.youtube.com/watch?v=GPahzFodDU8&feature=youtu.be

Encourage participants to make note of the two ways that people who are infected with virus, but who don't feel sick, can spread virus.



Sample Script

"Let's hear from the CDC's Dr. Abby Carlson and find out more about how viruses like SARS-CoV-2 can spread, even from someone who is infected but who doesn't feel sick. Dr. Carlson mentions two ways this can happen. Jot down in your participant booklet what you hear, and we'll discuss the two ways after the video."



Slide 5: Definitions



Facilitator Notes

Review the definitions of "pre-symptomatic" and "asymptomatic."

- Pre-symptomatic infection is when a person has been infected with a virus and hasn't started feeling sick yet but will develop symptoms.
- Asymptomatic infection is when a person is infected with a virus and will never feel any symptoms at all.



"Let's review the two ways people can be infected and not feel sick that Dr. Carlson mentioned in the video. 'Pre-symptomatic infection' means that a person is infected with a virus but hasn't started feeling sick yet – but they probably will soon. 'Asymptomatic infection' means that a person is infected with a virus but does not feel any symptoms at all. As you heard from Dr. Carlson, this can make it harder to control the spread of infectious diseases, because people don't always know that they have an infection, or that they're contagious and can spread it to others."



Slide 6: Recognizing People Who Are Contagious



Facilitator Notes

- This slide has animation. When you advance to the slide, only the pictures of people will appear.
- Ask participants to look at the people on the slide and see if they can tell who is infected with COVID-19.
 - ▶ Encourage participants to guess, either orally or in the chat, or both.
- After participants have had a chance to respond, trigger animation to clarify that even people who seem healthy and exhibit no symptoms might have COVID-19 and be able to spread the SARS-CoV-2 virus.



Sample Script

"Now let's do a little detective work. Can you guess which of these people has COVID-19 and may be contagious?"

(Pause for responses.)

"We can't tell, can we? Lots of people are infected with the virus, but don't show symptoms!

"As we heard in the video, people can be infected with a virus and their immune system can be working – and they might not feel sick. Even if they don't feel sick, they can spread the virus to others. It's important to know and remember this when you're thinking about infection control."



Slide 7: Controlling the Spread



Facilitator Notes

- This slide has animation. When you advance to the slide, only the first column will appear.
- Encourage participants, either orally or in the chat, to link their knowledge to action:
 - ▶ We know that people who are infected with SARS-CoV-2, but who do not show symptoms, can still spread virus.
 - ▶ "What actions should we take?"
- When appropriate, advance the slide to reveal the second column.



Sample Script

"So, let's review. People who are pre-symptomatic or asymptomatic – who aren't feeling any symptoms, but who are infected with virus – can still spread COVID-19. Why does this matter? How can we use this information in our work?"

(Pause for responses. When appropriate, trigger animation.)

"Right! Because we can't tell who may be infected, and able to infect others, all our infection control actions are still important – including masking for source control."



Slide 8: Reflection



Facilitator Notes

Encourage participants to reflect on the content of the session and how they will put their knowledge into practice.



Sample Script

"Let's use our last few minutes together to reflect on what we've learned and think about how we can put what we've learned into practice."





Facilitator Notes

- Invite participants to share what they learned during the session, and one thing they'll need to do, or continue to do, in their work to protect themselves and others from diseases that can spread when people are infected but may not look or feel sick.
 - As appropriate, make connections between participants' responses and the material from the session.
- Invite additional, remaining questions.
- If the answers are information that is already included in this session, please respond.
- If the questions address content that is not covered in this session, please do not attempt to answer the questions. Instead, take note of the questions and consult with CDC resources to follow up with answers after the session.
- Participants may have questions about whether people who are fully vaccinated against COVID-19 can still transmit virus. You may choose to direct them to CDC resources:
 - ▶ When You've Been Fully Vaccinated: https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated.html
 - ► Science Brief: COVID-19 Vaccines and Vaccination: https://www.cdc.gov/coronavirus/2019-ncov/science/science-briefs/fully-vaccinated-people.html



Sample Script

"I'd love to hear from you about what you learned today about asymptomatic spread, and if you have identified one thing you'll need to do, or continue to do, in your work to protect yourself and others from diseases that can spread when people are infected but may not look or feel sick. **Would anyone like to share?**

(Acknowledge and address responses.)

"Thank you for sharing! Does anyone have any questions still remaining?"

(Address questions as appropriate.)

"Thank you for sharing those questions. Project Firstline is actively collecting your questions to help inform more training resources as they're developed. I've written them down, and I will get back to you with responses."



Slide 10: Key Takeaways



Facilitator Notes

- Review key takeaways.
- You may choose to revisit discussion points or questions that arose during the session.



Sample Script

"I hope you enjoyed today's conversation. I've captured some key takeaways here, which you can review at your leisure after the session today."



Slide 11: Resources and Future Training Sessions



Facilitator Notes

- Share additional resources from Project Firstline and CDC.
- Explain how participants can reach you, by the means of your choosing, and how they can reach Project Firstline.
- If this session is part of a series, you may choose to describe the themes of upcoming sessions.



Sample Script

"We covered a lot today, and there is still more to learn. You can keep exploring these topics on your own using the resources on this slide. You can also follow us on social media."

(If this session is part of a series) "Next time, we will cover [insert next training topic]."



Slide 12: Feedback Form



Facilitator Notes

Explain how to access the feedback form.



"And, finally, please let us know how you enjoyed today's session by completing the following feedback form. Thanks again for joining us today."

After the Session



Send list of participant questions compiled during this session to $\underline{\text{ProjectFirstline@cdc.gov}}.$

Appendix: Content Outlines



Episode 3 Title: What's a Virus?

Content summary: SARS-CoV-2 is a virus. Viruses have three main parts: genes, proteins, and an envelope.

Topic: The Basic Science of Viruses

Learning Objectives

By the end of this episode, participants will be able to identify, and explain to others, the three (3) main parts of a virus.

Key Educational Takeaways

- All viruses have two parts:
 - ▶ Genes that contain all the information needed to make more virus copies
 - Proteins that protect the genes and help the virus spread
- Some viruses—SARS-CoV-2 is one of them—also have a third part: an envelope made of special fats that protects the genes and proteins.

Content Outline

- If we know a little bit about viruses, then we can understand how it travels between people and makes us sick, and why the things we do for infection control work to stop this from happening.
- COVID-19 is caused by a virus: SARS-CoV-2.
- Viruses use living things, including people, to make copies of themselves, and then keep spreading from one living thing to another.
- All viruses have genes that contain all the information needed to make more virus copies, like an "instruction booklet" or a "blueprint."
- Viruses have proteins that come together to create a shell that protects the "blueprint" genes.
- Some proteins stay inside the shell and are only used when it's time to build more virus copies, but other proteins can stick out from the shell and help the virus get from one place to another in the body, and also from one person to another.
- Some viruses—not all, but SARS-CoV-2 is one of them—have another protective layer covering the shell called an envelope.
- The envelope is made of fats with some proteins mixed in.
- Some proteins stick out of the envelope to help the virus get around and into cells, and also to help it spread from one person to another.



Episode 24 Title: How Does COVID-19 Spread When You Don't Feel Sick?

Content summary: People who are infected with SARS-CoV-2, the virus that causes COVID-19, can spread the virus to others even if they don't feel sick. That's because even mild infections produce virus in people's throat and lungs that comes out in their respiratory droplets when they talk, breathe, cough, or otherwise blow air out of their nose or mouth.

Topic: Transmission

Learning Objectives

After viewing this video, learners will be able to:

- Explain how a person can be infected with SARS-CoV-2 and not feel sick but can still spread the virus to others.
 - ▶ People can be infected with a virus, and their immune system can be working to fight it off, but they might not feel sick with symptoms such as fever, cough, shortness of breath, or other signs of disease.
 - Someone might have been infected recently but hasn't started feeling sick yet, though they might in a couple of days. That's called "pre-symptomatic" infection.
 - Someone might be infected and will never feel any symptoms at all. That's called "asymptomatic" infection.
 - ► Even mild infections produce virus in people's throat and lungs that comes out with respiratory droplets they make when they talk, breathe, cough, or otherwise blow air out of their nose or mouth.
- Discuss one (1) reason why infection control recommendations for COVID-19, such as masking for source control, are in place in healthcare settings.
 - ▶ Some people who are infected with SARS-CoV-2, the virus that causes COVID-19, don't actually know it, because they aren't feeling any symptoms. Even though they don't look or feel sick, they can still spread the virus.
 - ▶ This happens because the virus that is in their body is also in their respiratory droplets.
 - Those droplets can land on someone's eyes, nose, or mouth, or someone can breathe them
 into their throat and lungs, where the virus in the droplets can start attacking that person's
 cells.
 - Respiratory droplets can also fall on surfaces, where they can be picked up and spread to others.

Key Educational Takeaways

Many of the infection control recommendations for COVID-19, such as masking for source control, apply in healthcare settings. That's because some people who are infected with SARS-CoV-2, the virus that causes COVID-19, don't actually know it because they aren't feeling any symptoms, such as fever, cough, shortness of breath, or any other signs of disease.

- ▶ They may have been infected recently and have not started feeling sick yet, though they might in a couple of days. That's called "pre-symptomatic" infection.
- ▶ They may be infected and will never feel symptoms at all. That's called "asymptomatic" infection.
- Someone who is infected with virus but doesn't feel sick can still spread virus to others because the virus is in their body, and in their respiratory droplets, which come out when they talk, breathe, cough, or otherwise push air out of their nose and mouth. Those respiratory droplets can then be breathed in or picked up by others and infect them.
- This asymptomatic spreading of virus is not unique to COVID-19 and is also seen in other viruses, like the flu.

Content Outline

- Many of the infection control recommendations for COVID-19, such as masking for source control, apply in healthcare settings, not just when caring for a patient with known or suspected disease.
- That's because many people who are infected with SARS-CoV-2, the virus that causes COVID-19, don't actually know it, because they aren't feeling any symptoms, such as fever, cough, shortness of breath, or any other signs of disease.
 - ▶ But even though they don't feel or look sick, they can still spread the virus.
- When you have symptoms like a fever or a cough, it's because your immune system is working to fight off germs, like viruses.
- But you can be infected with a virus and your immune system can be working, but you might not feel sick.
 - ➤ You might have been infected recently and haven't started feeling sick yet, but you're going to in a couple of days: that's called "pre-symptomatic" infection.
 - ▶ You might be infected and never feel any symptoms at all: that's called "asymptomatic" infection.
- It's not clear why some people have milder cases of COVID-19 than others, or why some people are infected with SARS-CoV-2 and never show any symptoms.
- If you have the virus but do not feel sick, you can still spread virus to other people, and they could get sick.
 - ▶ This happens because the virus that is in your body is also in your respiratory droplets.
 - ▶ Your respiratory droplets come out when you talk, breathe, cough, or otherwise blow air out of your nose or mouth.
 - ➤ Your respiratory droplets can land on someone's eyes, nose, or mouth, or someone can breathe them into their respiratory tract, where the virus in the droplets can start attacking their cells.
 - ▶ Your respiratory droplets can also fall on surfaces, where they can be picked up and spread to others.
- This asymptomatic spreading of virus is not unique to COVID-19 and is also seen in other viruses, like the flu.
- It's important to keep doing the recommended infection control actions while at work, like masking for source control, to keep the virus from spreading.





For more information please contact

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