

Infection Prevention and Control Practices

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TORONTO

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Infection Prevention and Control Practices

The Infection Prevention and Control Practices learning activities is an open access resources and was developed to complement infection prevention and control content learned in academia and clinical environments. The intended audience is novice healthcare students in undergraduate programs. Healthcare practitioners currently practicing may also find this resource valuable as a review on content and skills. This project was supported and funded by Centennial College.

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Note to Educators Using this Resource

This resource is best incorporated after learners have completed content on infection prevention and control practices. This resource can support learners knowledge and skill performance related to hand hygiene (hand washing and alcohol-based hand rub) and donning and removing personal protective equipment (PPE) (including removing non-sterile gloves). The infection prevention and control practices content follows the Public Health Ontario's Provincial Infections Diseases Advisory Committee (PIDAC) guidelines. However, individual institution practices may vary according to institution guidelines. Please share your experience using this resource with Michelle Hughes and provide feedback on how the resource can continue to support learners.

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Level of Organization

Chapter 1: Introduction

Chapter 2: Hand Hygiene

Chapter 3: Alcohol-Based Hand Rub

Chapter 4: Personal Protective Equipment

Chapter 5: Removing Non-Sterile Gloves

Chapter 6: Test your Knowledge

Chapter 7: Case Studies

Chapter 8: Reflective Questions

Chapter 9: Skills Checklist – *coming soon!*

Chapter 10: Conclusion – *coming soon!*

By the end of this resource you will be able to:

- Identify various infection prevention and control practices techniques.
- Apply knowledge of infection prevention and control skill techniques.
- Explain rationale for various infection prevention and control practices techniques.
- Perform proper procedures and correct skill techniques for infection prevention and control practices including hand hygiene, alcohol-based hand rub, donning and removing PPE, and removing gloves.

PART I
MAIN BODY

Chapter 1: Introduction

Welcome to the Infection Prevention and Control Practices open educational resource!

The goal of this resource is to support your knowledge and skill performance of the following infection prevention and control practice (IPCP) skills: hand hygiene, alcohol-based hand rub, donning and removing personal protective equipment (PPE), and removing non-sterile gloves.

The intended audience are novice healthcare students in undergraduate programs. This resource is best used after you have learned about IPCP in your healthcare program.

The infection prevention and control practices content follow the Public Health Ontario's Provincial Infections Diseases Advisory Committee (PIDAC) guidelines. However, individual institution practices may vary according to institutional guidelines.

By the end of this resource, you will be able to:

- Recognize the importance of IPCP.
- Integrate knowledge about IPCP skill techniques.
- Explain rationale for various IPCP techniques.
- Perform proper procedures and correct skill techniques for IPCP including hand hygiene, alcohol-based hand rub, donning and removing PPE, and removing non-sterile gloves.

Chapter 2: Hand Hygiene

Hand Hygiene Interactive Video

In this interactive video, you will have the opportunity to test your knowledge on performing hand hygiene. As you watch the interactive video, you will be asked questions throughout the performance of the skill. You must answer the questions correctly before you're able to move forward. Don't forget to review the rationales for your decisions with each question.

Have fun playing!



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here:

<https://ecampusontario.pressbooks.pub/ipacp/?p=5>

The original video can be found at: <https://youtu.be/26M0YWJPQXw>

Chapter 3: Alcohol-Based Hand Rub

Alcohol-Based Hand Rub Interactive Video

During this interactive video, you will have the opportunity to test your knowledge on performing an alcohol-based hand rub. As you watch the interactive video, you will be asked questions throughout the performance of the skill. You must answer the questions correctly before you're able to move forward. Don't forget to review the rationales for your decisions with each question.

Play on!



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here:

<https://ecampusontario.pressbooks.pub/ipacp/?p=29>

The original video can be found at: <https://youtu.be/-1wlgHjsejs>

Chapter 4: Personal Protective Equipment

Personal Protective Equipment Interactive Videos

In these interactive videos, you will have the opportunity to test your knowledge on donning and removing personal protective equipment (PPE). As you watch the interactive videos, you will be asked questions throughout the performance of the skill. You must answer the questions correctly before you're able to move forward. Don't forget to review the rationales for your decisions with each question.

Let the games begin!

Donning PPE

During this interactive video, you will be expected to don all PPE. The video focuses on proper procedure and techniques.



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here:

<https://ecampusontario.pressbooks.pub/ipacp/?p=27>

The original video can be found at: <https://youtu.be/XombdSFujpo>

Removing PPE

This interactive video continues from the donning video after you have completed care on the client. You are expected to remove all PPE in the proper sequence.



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here:

<https://ecampusontario.pressbooks.pub/ipacp/?p=27>

The original video can be found at: https://youtu.be/-coxX_oY0OI

Chapter 5: Removing Non-Sterile Gloves

Removing Gloves Interactive Video

During this interactive video, you will be tested on your knowledge on how to properly remove non-sterile gloves. As you watch the interactive video, you will be asked questions throughout the performance of the skill. You must answer the questions correctly before you're able to move forward. Don't forget to review the rationales for your decisions with each question.

Begin to remove your gloves!



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here:

<https://ecampusontario.pressbooks.pub/ipacp/?p=31>

The original video can be found at: <https://youtu.be/OQKbZoUlc7M>

Chapter 6: Test your Knowledge



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Chapter 7: Case Studies

Case Study 1

A healthcare student is assigned to a client who is on isolation precautions and needs assistance with hygiene and elimination. The client is 47 years old, diagnosed with clostridium difficile (C.Diff.) and wears an adult brief due to incontinence of stool. The client has requested assistance with bathing and changing their brief.



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Case Study 2

A 10 year old client has been admitted to a clinic with the influenza virus and has a fever, persistent productive cough, and a runny nose. The client is lethargic and has not ate since yesterday morning due to nausea.



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Chapter 8: Reflective Questions



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<https://ecampusontario.pressbooks.pub/ipacp/?p=113>

Chapter 9: Skills Checklists

Skills Checklist for Performing Hand Hygiene

| Step | Rationale |
|---|-----------|
| <p>Review client's chart and assess risk for infection.</p> <ul style="list-style-type: none"> • Immune status, open wounds, medical diagnosis. | |
| <p>Inspect hands.</p> <ul style="list-style-type: none"> • Assess for open lesions, visible soil on hands and fingernails • Fingernails should be clean and short. • Remove rings and bracelets. • Push watches and sleeves above wrists. | |
| <p>Prepare to wash hands.</p> <ul style="list-style-type: none"> • Stand in front of sink, do not let uniform touch sink area. | |
| <p>Turn on water.</p> <ul style="list-style-type: none"> • Warm temperature at a medium flow. • No splashing. | |
| <p>Wet hands and wrists before applying antimicrobial soap.</p> | |
| <p>Apply a small amount of antimicrobial soap and begin to lather soap around hands, fingernails and wrists.</p> <ul style="list-style-type: none"> • Duration: at least 10-15 seconds. • Scrub all surfaces of hands, fingernails and wrists (paying close attention to, sides of hand, between fingers, and fingernails). | |

| | |
|---|--|
| <p>Rinse hands and wrists thoroughly.</p> <ul style="list-style-type: none">• Keep hands below elbows. | |
| <p>Dry hands and wrists thoroughly.</p> <ul style="list-style-type: none">• Direction: finger tips to wrists. | |
| <p>Turn off water with clean paper towel.</p> <ul style="list-style-type: none">• Avoid touching sink area with clean hands or uniform. | |
| <p>Inspect hands, fingernails and wrists for dermatitis or cracked skin.</p> | |

This is where you can add appendices or other back matter.