

## Biosafety

	Define the following terms: Biosafety
b.	Biohazard
c.	Risk Factor
d.	Biological material
e.	Chemical or biological accident
f.	Chemical or biological incident
g.	Pathogen
h.	Aerosols

	i. PPE
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<b>1</b> 2.	Describe which PPEs are used by health professionals.
	What are they for?
	Discuss at least five other non-health care fields that routinely use PPE for protection from biohazards and why they are needed.
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<b>3.</b>	Differentiate between outbreak, epidemic, pandemic and endemic.
	Outbreak
	Epidemic
	Endemic
	Make a Venn diagram or chart that shows the things that are the same and those that are different.
	Date completed

C	Chart, list, or illustrate the differences between isolation and quarantin Isolation
	Quarantine
C	Choose two of the following historic diseases and answer:
•	Smallpox When did it occur?
	How many were infected? How was it spread?
	What were the symptoms?
	What were the biosafety precautions used?

How was it abated?	
Typhus	
When did it occur?	
How many were infected? How was it spread?	
What were the symptoms?	
What were the biosafety precautions used?	
How was it abated?	
1918 Influenza (Spanish Flu)	
When did it occur?	
How many were infected? How was it spread?	
What were the symptoms?	
What were the biosafety precautions used?	

Но	w was it abated?
— Pol	io
	en did it occur?
— Но	w many were infected? How was it spread?
Wh	at were the symptoms?
Wh	at were the biosafety precautions used?
— Но	w was it abated?
Sw	ine Flu
Wh	en did it occur?
Ho	w many were infected? How was it spread?
Wh	at were the symptoms?
Wh	at were the biosafety precautions used?

C	Choose two of the following diseases and answer:
•	Cholera
	What are the symptoms?
	How is it spread? Is there a cure today?
	Where and when was there an outbreak/epidemic/pandemic?
	Is there a prevention for this disease?
	What are the biohazard safety methods used to combat the spread of t disease?
•	Tuberculosis
	What are the symptoms?
	How is it spread? Is there a cure today?
	Where and when was there an outbreak/epidemic/pandemic?

Is	there a prevention for this disease?
	That are the biohazard safety methods used to combat the spread of this sease?
_ Y	ellow Fever
W	That are the symptoms?
H	ow is it spread? Is there a cure today?
W	here and when was there an outbreak/epidemic/pandemic?
Is	there a prevention for this disease?
	That are the biohazard safety methods used to combat the spread of this sease?
— М	leasles
W	hat are the symptoms?
— Н	ow is it spread? Is there a cure today?

W 	here and when was there an outbreak/epidemic/pandemic?
Is	there a prevention for this disease?
	That are the biohazard safety methods used to combat the spread of this sease?
— М	alaria
W	That are the symptoms?
— Но	ow is it spread? Is there a cure today?
W	There and when was there an outbreak/epidemic/pandemic?
Is	there a prevention for this disease?
	That are the biohazard safety methods used to combat the spread of this sease?
– Eł	pola
W	That are the symptoms?

How is it spread? Is there a cure today?	
Where and when was there an outbreak/epidemic/pandemic?	
Is there a prevention for this disease?	
What are the biohazard safety methods used to combat the spread of the disease?	
AIDS What are the symptoms?	
How is it spread? Is there a cure today?	
Where and when was there an outbreak/epidemic/pandemic?	
Is there a prevention for this disease?	
What are the biohazard safety methods used to combat the spread of the disease?	

	• COVID-19
	What are the symptoms?
	How is it spread? Is there a cure today?
	Where and when was there an outbreak/epidemic/pandemic?
	Is there a prevention for this disease?
	What are the biohazard safety methods used to combat the spread of this disease?
□ 8.	Complete the following:
	<b>a.</b> Which of the previous diseases studied are or were endemic to your local area?
	<b>b.</b> Which of the previous diseases are current travel concerns and what locations are greater risks to encounter them?
	c. Choose a place in the world you would potentially like to travel to and learn of the outbreaks and diseases that require or recommend a vaccine.
	Date completed
<b>9</b> .	How do vaccines work? Why is it important to be up to date with your immunizations?

a. Where is this organization located?  b. What information does it relay and why is it important to know how to access that information?
Explain why it is so important to remove medical gloves properly. Demonstrate the proper way to remove medical gloves without transferring pathogens from the gloves to your hands through the following exercise:
<b>a.</b> Coat your gloved hands with a simulated "pathogen" (such as Glo-Germ, cooking oil, ketchup, corn syrup, tempera paint, etc.).
<b>b.</b> Remove the gloves using proper technique without transferring any of the simulated "pathogen" to your skin or clothing.
c. Dispose of the gloves.
d. Clean up the mess.
Date completed
Regarding the cleaning of hands:
a. Why is hand washing recommended rather than hand sanitizing whenever possible?
<b>b.</b> What steps should be taken to make sure all parts of the hands are clean? Explain why it is important to follow each step.
c. What song have you found that is long enough that you can sing it completely while scrubbing your hands?

	a.	why are the use of paper towels and/or air dryers preferable over cloth towels that will be used several times?
	e.	Make a video or other presentation to demonstrate to your instructor how to properly wash and dry your hands.
		Date completed
<b>13</b> .	. R	egarding hand sanitizer:
	a.	Why is 70% isopropyl alcohol the most effective concentration as the main cleansing sanitizer ingredient?
	b.	What is the correct way to use hand sanitizer?
	c.	Explain when it is appropriate to use hand sanitizer instead of soap and water.
<b>1</b> 4.	. R	egarding face masks:
	a.	Explain the rationale for using a homemade mask.
	b.	Learn how to improvise a face mask using materials commonly found around your home.
	c.	Research and make a face mask using ideal fabric and design per instructions.
	d.	Under what conditions would it be advantageous to upgrade to a certified commercial face mask?

☐ 15. Regarding coughing:			arding coughing:	
		a. Perform the following:		
		i.	Position yourself 12 inches (30 cm) in front of a clean pane of glass or a mirror and cough on it. Observe the amount and distribution of the droplets produced by the cough. Clean the glass.	
		ii.	While maintaining the same distance from the glass as with the uncovered cough, repeat by coughing into the crook of your arm. Compare the amount and distribution of droplets. Clean the glass.	
		iii	Repeat this exercise while wearing a mask. Compare the amount and distribution of droplets. Clean the glass when you are finished.	
			ased on your observations, identify what actions should be taken when aughing or sneezing to avoid contaminating other people.	
		Da	ate completed	
	16.	Levi	by the protocol that the Lord gave Moses concerning leprosy in ticus 13:1-46 and compare those directions to precautions that modern th officials recommend for biosafety concerns.	
		Da	ate completed	
	17.	According to Matthew 24:3-8, what does the Bible say about end-time diseases?		
	18.		ording to 1 Corinthians 15:51-58 and Revelation 21:1-5, what will ben to sicknesses and diseases when we go to Heaven?	
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