

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
- 2.	D	escribe which PPEs are used by health professionals.
	W	hat are they for?
	D	is away at least five other new health some fields that moutingly was DDE for
		iscuss at least five other non-health care fields that routinely use PPE for rotection from biohazards and why they are needed.
	2.	
	4.	
	5.	
3 .	D	ifferentiate between outbreak, epidemic, pandemic and endemic. Outbreak
		Epidemic
		Endemic
		ake a Venn diagram or chart that shows the things that are the same and ose that are different.
		Date completed

C	Chart, list, or illustrate the differences between isolation and quarantin Isolation
	Quarantine
•	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?

Hov	v was it abated?
Тур	hus
	en did it occur?
Hov	w many were infected? How was it spread?
Wha	at were the symptoms?
Wha	at were the biosafety precautions used?
How	v was it abated?
	8 Influenza (Spanish Flu)
	en did it occur?
Hov	w many were infected? How was it spread?
Wha	at were the symptoms?
— Wha	at were the biosafety precautions used?

Но	w was it abated?
Po!	lio
	nen did it occur?
— Но	w many were infected? How was it spread?
Wl	nat were the symptoms?
Wl	nat were the biosafety precautions used?
— Но	w was it abated?
Sw	rine Flu
	nen did it occur?
— Но	w many were infected? How was it spread?
Wl	nat were the symptoms?
Wl	nat 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 1	there a prevention for this disease?
	nat are the biohazard safety methods used to combat the spread of this ease?
— Ye	llow Fever
Wl	nat are the symptoms?
— Но	ow is it spread? Is there a cure today?
Wl	nere and when was there an outbreak/epidemic/pandemic?
Is 1	there a prevention for this disease?
	nat are the biohazard safety methods used to combat the spread of this ease?
— Ме	easles
Wl	nat are the symptoms?
—	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?
— М	alaria
W	hat are the symptoms?
— Но	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?
– 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:
	a. Which of the previous diseases studied are or were endemic to your local area?
	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
9 .	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
Explain why it is so important to remove medical gloves properly.
transferring pathogens from the gloves to your hands through the following exercise:
a. Coat your gloved hands with a simulated "pathogen" (such as Glo-Germ, cooking oil, ketchup, corn syrup, tempera paint, etc.).
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. 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
13 .	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.
□ 14.	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.	Rega	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 ughing or sneezing to avoid contaminating other people.	
		Da	ate completed	
☐ 16. Study the protocol that the Lord gave Moses concerning lep Leviticus 13:1-46 and compare those directions to precaution health officials recommend for biosafety concerns.		ticus 13:1-46 and compare those directions to precautions that modern		
		Da	ate completed	
	☐ 17. According to Matthew 24:3-8, what does the diseases?			ording to Matthew 24:3-8, what does the Bible say about end-time ases?
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	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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