# HS-SM-5 Principles of Healing

### Understanding the Basics of Healing

### Objective:

Students will be able to analyze and describe the basic principles and concepts of healing by:

- Defining the terminology associated with wound healing.
- Comparing and contrasting the benefits of primary healing over secondary healing.

### Accessment-

Students will demonstrate their understanding by completing a worksheet that requires them to define key wound healing terminologies and explain the advantages of primary healing compared to secondary healing.

### Key Points:

- Definition of essential terminologies in wound healing.
- Advantages of primary healing.
- Advantages of secondary healing.
- Differences between primary and secondary healing.

### Opening

- Introduction to the concept of wound healing and its importance in the body.
- Engage students with a real-life scenario where they need to decide between primary and secondary healing for a particular type of wound.

### Introduction to New Material:

- Define key terminologies related to wound healing.
- Discuss the benefits of primary healing.
- Address the misconception that primary healing is always the best option irrespective of the situation.

## **Guided Practice:**

- Provide examples of wound types and guide students in determining the most suitable healing method.
- Scaffold questioning from simple scenarios to more complex wound cases.
- Monitor student performance through discussions and checking their responses.

# Independent Practice:

- Students will work on a scenario-based assignment where they have to recommend the most appropriate healing method for different types of wounds.
- Detailed instructions and criteria for evaluation will be provided.

## Closine:

 Conduct a quick group discussion where students summarize the advantages of primary and secondary healing.

# Extension Activity:

 For early finishers, provide them with a case study of a complex wound and ask them to justify their choice of healing method with detailed reasoning.

## Homework:

 Research and write a short essay comparing and contrasting primary and secondary healing methods and the factors that influence the choice of healing method.

# Standards Addressed:

- MS-SM-5: Analyze and describe the basic principles and concepts of healing.
- HS-SM-5.1: Define the terminology associated with wound healing.
- HS-SM-5.2: Compare and contrast the benefits of primary healing over secondary healing.



ne.		
	e Healing Process	
Precision Standard 3: Students will de	descrit	
es of Injuries		
Acute	<u> </u>	
<ul> <li>"Oh crap moment"</li> </ul>	• Bad	
crotrauma	Mic	
•		
	о нурохів	
pes of an Acute Injury	•	
Acute/inflammation Phase	<ul> <li>During inflammation phase the swelling that occurs can affect blood flow distal to the injured</li> </ul>	
o Time Frame	location. This causes a hypoxic situation that if not taken care of can lead to a secondary injury.	
	o Histamine Response	
Signs and Symptoms	The histamine response during this time attracts fib	
	What do you think can speed up the time frame?	
	Subacute/Repair and Regeneration Phase	
	- Time Frame	
	What do you think can slow down the time frame?	
<ul> <li>What is the purpose of swelling and pain?</li> </ul>		
o Vasodilation	·	
<ul> <li>The dilation/enlargement of blood vi</li> </ul>	vessel o Fibroblasts appear within 2-3 days of the injury and secrete Types of Injuries  • Sprains	
•	O	
	Uigaments connect bones together	
<ul> <li>Inflammation</li> </ul>		
•	- Strains	
	This is why a scar feels harder than the skin around     This is why a scar feels harder than the skin around	
<ul> <li>Is inflammation a good or bad thing?</li> <li>Good</li> </ul>	<ul> <li>Tendons connect muscles to bones</li> </ul>	
	Remodeling/Maturation Phase     Time Frame	
	# I de contraction	
	• Discapon	
	o • Subluxation	
	- Contusion	
	Wolff's Law	
	Degrees of Soft Tissue Injuries	
	First Degree Injuries     Davis's Law	
	Symptoms	
	o Adhesions	
	Second Degree injuries     Tearing of 25-50 percent of fibers	
	Tearing or 25-bb percent or noters     Symptoms	
	Supplies William and the Artifact and Artifact and the Artifact and Art	
	Example: Writer you put a barroard on a sore and on     Third Degree Injuries	
	Example 2: When you strain a hamstring an adhesic	
	The timeframes of the three stages are general guidelines, it may be     *	
	Ine timetrames of the three stages are general guidelines, it may be  you.	
	you.  Noes of Fractures	
	Compression Fractures	
	·	
	·	
	Depressed Fractures	

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Assignments cover all standards with the standard to understand the principles of healing