So Many Ways to Die in the Antarctic

<u>Directions:</u> With your groups, determine the claim that each passage or video clip is making and list evidence to support your interpretation.

For each passage:

- **A)** State the claim in a complete sentence.
- **B)** List 2-3 pieces of evidence from the passage or clip that supports your interpretation.

Scurvy

Passage #2

https://www.youtube.com/watch?v=9c0K_6Y19nM

Leopard Seals

Passage #2

http://news.nationalgeographic.com/news/2014/03/140311-paul-nicklen-leopard-seal-photographer-viral/

Scurvy

Passage #1

Scurvy, also called vitamin C deficiency, one of the oldest-known nutritional disorders of humankind, caused by a dietary lack of vitamin-C. Vitamin C (ascorbic acid) is a nutrient found in many fresh fruits and vegetables, particularly the citrus fruits. Vitamin C is important in the formation of collagen (an element of normal tissues), and any deficiency of the vitamin interferes with normal tissue formation.

Scurvy is characterized by swollen and bleeding gums with loosened teeth, soreness and stiffness of the joints and lower extremities, bleeding under the skin and in deep tissues, slow wound healing, and anemia.

Scurvy killed many sailors. In modern times, full-blown cases of vitamin C deficiency are relatively rare; they may still be seen in isolated elderly adults, in people following restrictive diets, and in infants fed reconstituted milk or milk substitutes without a vitamin C or orange juice supplement.

Administration of vitamin C is the specific therapy for scurvy. Even in cases of severe deficiency, a daily dose of 100 mg (1 mg = 0.001 gram) for adults or 10 to 25 mg for infants and children, accompanied by a normal diet, commonly produces a cure within several days

Leopard Seals

Passage #1

The leopard seal is at the top of the food chain in its home in the Antarctic, and this is one predator you don't want to swim with. It is bold, powerful and curious, and it has been known to hunt people, although it usually targets penguins. In 1985, Scottish explorer Gareth Wood was bitten twice on the leg when a leopard seal tried to drag him off the ice and into the sea, and in 2003 a leopard seal dragged snorkeling biologist Kirsty Brown underwater to her death.

Read more: http://www.mnn.com/earth-matters/ animals/photos/15-cute-animals-that-could-killyou/leopard-seal#ixzz3TXJEaJZm

Hypothermia/ Drowning

GENERAL PRINCIPL

 Hypothermia provides some temporary protection from the effects of cardiopulmonary arrest and protongs the possibility of normal recovery with or without the use of BLS/ALS treatment procedures. The duration of this protective effect is unknown and treatment procedures in the field should generally not cause significant delay in evacuation the deficition requirement and distinct in expenditudes.

Because of the protective effect of severe hypothermia, resuscitation efforts should not be discontinued according to the sa

Severe hypothermia causes cardiac instability. Physical stimuli cludes jostling, exercise, chest compression, and endotracheal labellon) can cause ventricus fibrillation is on the heart that is

4. Because the severely hypothermic heart is unstable and vertifical fioritation can be induced by objects attimal, it is important to accurately determine that functional cardiac activity is absent before beginning check compression. In severe hypothermia, functional cardiac activity can be present but the pulse might not be polipained need the conditions because a rules rate can be very slow; busite pressure is usually reduced in severe hypothermia; and c. environmental conditions can waite even a stypno quies difficult to fee environmental conditions can waite.

5. Cardiac tissue in severe hypothermics is resistant to defibrillation and anti-dysrhythmia medications. Use of anti-dysrhythmia agents before rewarming can cause significant accumulation which can have toxic or harmful effects when the victim is rewarmed. These procedures can be harmful and are generally withheld wild contained to the cardiac discount of the

ASSESSMENT

 In order to avoid the possibility of causing ventricular fibrillation in a cold but functioning hear take up to 45 seconds to feel for the presence of a carotid pulse. If no other clinical signs of life are present, the absence of a palpable pulse usually indicates the absence of functional cardiac activity.

2. Even if a pulse is not palpable in the field, function, cardias activity is always considered to be present in the severely hypothermic patient if any of the following clinical signs of life are present: a spontaneous ventilation; b. response to positive pressure ventilation; c. are spontaneous movement osound; d. organized rhythm on cardiac monitor; or e. audible heartheat on auscultation.

| Hypothermia/ Drowning Passage #2 | |
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| https://www.youtube.com/watch?v=Wz3gy5XyaBo Start at 1:09 | |
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