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Vocabulary Builder Reference from...

George Zaidan: How do pain relievers work? | TED Talk

https://www.ted.com/talks/george_zaidan_how_do_pain_reliefers_work

Advanced Words Only

IMPORTANT

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Session 1: Word List

rinse

v. to wash off soap or remaining dirt with clean water; to gargle your mouth and throat with mouthwash

synonym : wash out, flush, irrigate

(1) **rinse** out your mouth, (2) **rinse** the shampoo

Please **rinse** the soap off of those dishes well.

nociceptor

n. a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain

(1) thermal **nociceptor**, (2) **nociceptor** fiber

The **nociceptors** in the skin are activated by heat, cold, and pressure.

painkiller

n. medicine used to relieve physical pain

synonym : anesthetic, anodyne, analgesic

(1) a strong **painkiller**, (2) take a **painkiller** beforehand

Over-the-counter **painkillers** are less effective for patients who have taken many in the past.

aspirin

n. a drug used to reduce pain, fever, and inflammation

(1) prescribe **aspirin**, (2) **aspirin** sensitivity

She took a tablet of **aspirin** to soothe the fever.

ibuprofen

n. a drug used to reduce pain, fever, and inflammation

(1) **ibuprofen** intoxication, (2) **ibuprofen** tablet

Daily use of **ibuprofen** can irritate the stomach.

prostaglandin

n. a hormone-like substance produced in the body that regulates various physiological functions, including inflammation, blood pressure, and the contraction or relaxation of smooth muscles

synonym: hormone, eicosanoid, lipid mediator

(1) **prostaglandin** injection, (2) **prostaglandin** analogs

Prostaglandin inhibitors like aspirin and ibuprofen can help reduce inflammation and relieve pain.

arachidonate

n. the salt or ester form of arachidonic acid (= a polyunsaturated omega-6 fatty acid which is an essential fatty acid in many mammals)

synonym: arachidonic salt, eicosatetraenoate

(1) **arachidonate** metabolism, (2) cellular **arachidonate**

Dietary intake can influence the body's **arachidonate** cascade, potentially impacting inflammation.

porcupine

n. a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas

synonym: hedgehog, echidna, spiny mammal

(1) **porcupine** movement, (2) **porcupine** habitat

The quills on a **porcupine's** back are used for defense.

spit

v. to eject saliva or other liquid from the mouth

synonym: expectorate, saliva, spew

(1) **spit** a bullet, (2) **spit** a mouthful of saliva

She tried to **spit** out the gum that she had been chewing.

bloodstream

n. the blood flowing through the body

(1) **bloodstream** in an artery, (2) **bloodstream** to the brain

Cancer cells are often carried throughout the body by the **bloodstream**.

neuropath

n. a person who suffers from a neurological disorder or disease, or the disorder itself

(1) the treatment plan of the **neuropath**, (2) **neuropath's** disorder

The **neuropath's** symptoms included weakness, numbness, and difficulty with coordination.

Session 2: Spelling

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|---------------------------------|-----------|---|
| 1. ri__e the shampoo | <i>v.</i> | to wash off soap or remaining dirt with clean water; to gargle your mouth and throat with mouthwash |
| 2. s__t a bullet | <i>v.</i> | to eject saliva or other liquid from the mouth |
| 3. ib_____en tablet | <i>n.</i> | a drug used to reduce pain, fever, and inflammation |
| 4. take a pai_____er beforehand | <i>n.</i> | medicine used to relieve physical pain |
| 5. noc_____or fiber | <i>n.</i> | a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain |
| 6. ne_____th's disorder | <i>n.</i> | a person who suffers from a neurological disorder or disease, or the disorder itself |
| 7. pro_____din analogs | <i>n.</i> | a hormone-like substance produced in the body that regulates various physiological functions, including inflammation, blood pressure, and the contraction or relaxation of smooth muscles |
| 8. po_____ne habitat | <i>n.</i> | a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas |

ANSWERS: 1. rinse, 2. spit, 3. ibuprofen, 4. painkiller, 5. nociceptor, 6. neuropath, 7. prostaglandin, 8. porcupine

- | | | |
|---|----|---|
| 9. ri__e out your mouth | v. | to wash off soap or remaining dirt with clean water; to gargle your mouth and throat with mouthwash |
| 10. blo_____am to the brain | n. | the blood flowing through the body |
| 11. blo_____am in an artery | n. | the blood flowing through the body |
| 12. a strong pai_____er | n. | medicine used to relieve physical pain |
| 13. s__t a mouthful of saliva | v. | to eject saliva or other liquid from the mouth |
| 14. pro_____din injection | n. | a hormone-like substance produced in the body that regulates various physiological functions, including inflammation, blood pressure, and the contraction or relaxation of smooth muscles |
| 15. thermal noc_____or | n. | a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain |
| 16. ib_____en intoxication | n. | a drug used to reduce pain, fever, and inflammation |
| 17. prescribe as_____n | n. | a drug used to reduce pain, fever, and inflammation |
| 18. as_____n sensitivity | n. | a drug used to reduce pain, fever, and inflammation |
| 19. the treatment plan of the ne_____th | n. | a person who suffers from a neurological disorder or disease, or the disorder itself |

ANSWERS: 9. rinse, 10. bloodstream, 11. bloodstream, 12. painkiller, 13. spit, 14. prostaglandin, 15. nociceptor, 16. ibuprofen, 17. aspirin, 18. aspirin, 19. neuropath

20. ara_____ate metabolism *n.* the salt or ester form of arachidonic acid (= a polyunsaturated omega-6 fatty acid which is an essential fatty acid in many mammals)
21. po_____ne movement *n.* a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas
22. cellular ara_____ate *n.* the salt or ester form of arachidonic acid (= a polyunsaturated omega-6 fatty acid which is an essential fatty acid in many mammals)

ANSWERS: 20. arachidonate, 21. porcupine, 22. arachidonate

Session 3: Fill in the Blanks

1. The _____ symptoms included weakness, numbness, and difficulty with coordination.
 - n.* a person who suffers from a neurological disorder or disease, or the disorder itself

2. She took a tablet of _____ to soothe the fever.
 - n.* a drug used to reduce pain, fever, and inflammation

3. Daily use of _____ can irritate the stomach.
 - n.* a drug used to reduce pain, fever, and inflammation

4. _____ inhibitors like aspirin and ibuprofen can help reduce inflammation and relieve pain.
 - n.* a hormone-like substance produced in the body that regulates various physiological functions, including inflammation, blood pressure, and the contraction or relaxation of smooth muscles

5. Please _____ the soap off of those dishes well.
 - v.* to wash off soap or remaining dirt with clean water; to gargle your mouth and throat with mouthwash

6. She tried to _____ out the gum that she had been chewing.
 - v.* to eject saliva or other liquid from the mouth

7. The quills on a _____ back are used for defense.
 - n.* a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas

ANSWERS: 1. neuropath's, 2. aspirin, 3. ibuprofen, 4. Prostaglandin, 5. rinse, 6. spit, 7. porcupine's

8. The _____ in the skin are activated by heat, cold, and pressure.
- n.* a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain
9. Over-the-counter _____ are less effective for patients who have taken many in the past.
- n.* medicine used to relieve physical pain
10. Cancer cells are often carried throughout the body by the _____.
- n.* the blood flowing through the body
11. Dietary intake can influence the body's _____ cascade, potentially impacting inflammation.
- n.* the salt or ester form of arachidonic acid (= a polyunsaturated omega-6 fatty acid which is an essential fatty acid in many mammals)

ANSWERS: 8. nociceptors, 9. painkillers, 10. bloodstream, 11. arachidonate