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Vocabulary Builder Reference from...

Nikolai Begg: A tool to fix one of the most dangerous moments in surgery | TED Talk

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

Advanced Words Only

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Session 1: Word List

ominous

adj. giving the impression that something bad is going to happen; foreboding

synonym: foreboding, portentous, ominous

(1) an **ominous** silence, (2) **ominous** sign

The **ominous** clouds in the sky foretold of an approaching storm.

laparoscopy

n. a surgical procedure that involves the insertion of a thin, lighted instrument called a laparoscope through a small incision in the abdomen, allowing doctors to examine and diagnose internal organs or perform minimally invasive surgeries

synonym: endoscopy, keyhole surgery

(1) **laparoscopy** surgery, (2) diagnostic **laparoscopy**

A small camera is inserted into the abdomen during the **laparoscopy** procedure to visualize the internal organs.

incision

n. a sharp cut made in something with a sharp tool, especially during a medical procedure

synonym: cut, slit, laceration

(1) **incision** tool, (2) small **incision**

Patients undergoing **incisional** surgery are often put to sleep by anesthesia.

trade-off

n. a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

synonym: compromise, balance, exchange

(1) **trade-off** problem, (2) environmental **trade-off**

There was a **trade-off** between speed and accuracy in the task.

trocar

n. a medical instrument consisting of a sharp, pointed metal or plastic tube that is inserted into the body, usually through an incision, to withdraw fluid, drain abscesses, or facilitate the insertion of surgical instruments

synonym: cannula

(1) disposable **trocar**, (2) laparoscopic **trocar**

The surgeon inserted the **trocar** into the patient's abdomen for a laparoscopic procedure.

abdomen

n. the part of the body between the chest and pelvis that contains the stomach, intestines, liver, pancreas, and other organs; the posterior part of an insect's body, typically divided into segments

synonym: belly, gut, tummy

(1) **abdomen** pain, (2) insect **abdomen**

The weightlifter used his strong **abdomen** muscles to lift the heavy barbell.

puncture

n. a small hole or wound made by piercing, such as with a needle, nail, or pointed object

synonym: piercing, prick, hole

(1) bicycle **puncture**, (2) needle **puncture**

The tire had a **puncture** and needed to be replaced.

plunge

v. to dive quickly and steeply downward; to thrust or throw into something; (noun) a steep and rapid fall

synonym: dive, drop, thrust

(1) **plunge** into the water, (2) **plunge** a dagger through his

heart

The company's profits **plunged** after the recall of their new product.

terrify

v. to frighten someone very much

synonym: unnerve, scare, horrify

(1) **terrify** people, (2) the threats **terrify** him

It would be best not to **terrify** your associates into doing complex tasks.

complication

n. something that makes a situation or condition that is complex or confused

synonym: confusion, complexity, difficulty

(1) **complication** of structure, (2) resolve without **complication**

He also continued to struggle with serious long-term **complications**.

neurosurgery

n. medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves

(1) the department of **neurosurgery**, (2) specialize in **neurosurgery**

She has 20 years of experience in **neurosurgery**.

medicinal

adj. of or relating to the treatment or cure of disease

synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

epidural

n. referring to the area outside or above the dura mater (= the thick, durable outermost membrane of the three layers) ; (noun) medical procedure involving the injection of anesthetic into the epidural space of the spinal column

synonym: extradural, intrathecal, (noun) anesthesia

(1) **epidural** anesthesia, (2) administer the **epidural**
During childbirth, the doctor administered **epidural**
anesthesia to alleviate the pain of contractions.

ligament

n. a band of tissue that connects bones or holds organs in place to support and stabilize the body
synonym: band, cord, tendon

(1) a **ligament** in the ankle, (2) cruciate **ligament**
The **ligaments** in the knee provide stability and support.

anesthesia

n. a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes

(1) **anesthesia** for surgery, (2) local **anesthesia**
He is in general **anesthesia** under the surgeon.

childbirth

n. the act or process of giving birth to a baby
synonym: delivery, labor, parturition

(1) natural **childbirth**, (2) assisted **childbirth**
He was present at the **childbirth** of his children.

biopsy

n. the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
synonym: examination, autopsy

(1) **biopsy** of bone marrow, (2) liquid **biopsy**
The doctor performed an excisional breast **biopsy**.

burrow

v. to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal
synonym: tunnel, dig, excavate

(1) **burrow** through the forest, (2) **burrow** into a mystery
You can't **burrow** through solid metal.

lesion

n. a damaged or abnormal area of tissue in the body, usually caused by injury or disease
synonym: injury, wound, damage

(1) muscle **lesion**, (2) brain **lesion**

The doctor examined the **lesion** on the patient's skin to determine if it was cancerous.

bayonet

n. a long, sharp-edged weapon, typically a knife or blade, attached to the muzzle end of a rifle or similar firearm, used for close combat, allowing soldiers to engage in hand-to-hand combat after firing their weapons if necessary

synonym: dagger, blade, pike

(1) combat **bayonet**, (2) **bayonet** training

The troops trained extensively in **bayonet** techniques to prepare for combat.

Newtonian

adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation

synonym: classical, physics, mechanics

(1) **Newtonian** physics, (2) **Newtonian** mechanics

The motion of planets can be described using **Newtonian** mechanics.

retract

v. to take back, withdraw, or revoke something that has been said or done; to disavow or repudiate a statement or assertion that one has previously made

synonym: withdraw, take back, revoke

(1) **retract** a promise, (2) **retract** a lawsuit

I need to **retract** my statement because I realized it was incorrect.

sheath

n. a close-fitting cover to protect something such as the blade of a knife, sword, or other sharp objects

synonym: covering, case

(1) a sword **sheath**, (2) peripheral nerve **sheath**

He had long suffered from inflammation of a tendon **sheath**.

fascinate

v. to attract and hold the attention of someone deeply and irresistibly

synonym : captivate, intrigue, mesmerize

(1) **fascinate** the public, (2) **fascinate** the young

The magic tricks **fascinated** the children.

append

v. to add or attach something, especially supplementary or additional information or material, to the end or after something else; to include or incorporate as an addition or enhancement

synonym : attach, add, affix

(1) **append** a record, (2) **append** a page

I need to **append** the additional information to the end of the report before submitting it.

Session 2: Spelling

- | | |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. com_____ion of structure | <i>n.</i> something that makes a situation or condition that is complex or confused |
| 2. specialize in neu_____ery | <i>n.</i> medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves |
| 3. bi___y of bone marrow | <i>n.</i> the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease |
| 4. environmental tr_____ff | <i>n.</i> a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise |
| 5. cruciate li_____nt | <i>n.</i> a band of tissue that connects bones or holds organs in place to support and stabilize the body |
| 6. Ne_____an physics | <i>adj.</i> relating to Sir Isaac Newton or his laws of motion and universal gravitation |
| 7. the threats te_____y him | <i>v.</i> to frighten someone very much |
| 8. the department of neu_____ery | <i>n.</i> medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves |
| 9. re_____t a lawsuit | <i>v.</i> to take back, withdraw, or revoke something that has been said or done; to disavow or repudiate a statement or assertion that one has previously made |
| 10. tr_____ff problem | <i>n.</i> a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise |

ANSWERS: 1. complication, 2. neurosurgery, 3. biopsy, 4. trade-off, 5. ligament, 6. Newtonian, 7. terrify, 8. neurosurgery, 9. retract, 10. trade-off

11. ap___d a record *v.* to add or attach something, especially supplementary or additional information or material, to the end or after something else; to include or incorporate as an addition or enhancement
12. ap___d a page *v.* to add or attach something, especially supplementary or additional information or material, to the end or after something else; to include or incorporate as an addition or enhancement
13. insect ab____n *n.* the part of the body between the chest and pelvis that contains the stomach, intestines, liver, pancreas, and other organs; the posterior part of an insect's body, typically divided into segments
14. brain le___n *n.* a damaged or abnormal area of tissue in the body, usually caused by injury or disease
15. in____on tool *n.* a sharp cut made in something with a sharp tool, especially during a medical procedure
16. muscle le___n *n.* a damaged or abnormal area of tissue in the body, usually caused by injury or disease
17. bicycle pu____re *n.* a small hole or wound made by piercing, such as with a needle, nail, or pointed object
18. peripheral nerve sh___h *n.* a close-fitting cover to protect something such as the blade of a knife, sword, or other sharp objects

ANSWERS: 11. append, 12. append, 13. abdomen, 14. lesion, 15. incision, 16. lesion, 17. puncture, 18. sheath

19. om____s sign *adj.* giving the impression that something bad is going to happen; foreboding
20. a li____nt in the ankle *n.* a band of tissue that connects bones or holds organs in place to support and stabilize the body
21. administer the ep____al *n.* referring to the area outside or above the dura mater (= the thick, durable outermost membrane of the three layers) ; (noun) medical procedure involving the injection of anesthetic into the epidural space of the spinal column
22. natural chi____th *n.* the act or process of giving birth to a baby
23. bu____w into a mystery *v.* to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal
24. local ane____ia *n.* a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
25. re____t a promise *v.* to take back, withdraw, or revoke something that has been said or done; to disavow or repudiate a statement or assertion that one has previously made
26. pl____e a dagger through his heart *v.* to dive quickly and steeply downward; to thrust or throw into something; (noun) a steep and rapid fall
27. traditional me____al *adj.* of or relating to the treatment or cure of disease
28. laparoscopic tr____r *n.* a medical instrument consisting of a sharp, pointed metal or plastic tube that is inserted into the body, usually through an incision, to withdraw fluid, drain abscesses, or facilitate the insertion of surgical instruments

ANSWERS: 19. ominous, 20. ligament, 21. epidural, 22. childbirth, 23. burrow, 24. anesthesia, 25. retract, 26. plunge, 27. medicinal, 28. trocar

29. fa_____te the public *v.* to attract and hold the attention of someone deeply and irresistibly
30. bu___w through the forest *v.* to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal
31. small in_____on *n.* a sharp cut made in something with a sharp tool, especially during a medical procedure
32. ane_____ia for surgery *n.* a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
33. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
34. ba_____t training *n.* a long, sharp-edged weapon, typically a knife or blade, attached to the muzzle end of a rifle or similar firearm, used for close combat, allowing soldiers to engage in hand-to-hand combat after firing their weapons if necessary
35. disposable tr___r *n.* a medical instrument consisting of a sharp, pointed metal or plastic tube that is inserted into the body, usually through an incision, to withdraw fluid, drain abscesses, or facilitate the insertion of surgical instruments
36. liquid bi___y *n.* the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
37. pl___e into the water *v.* to dive quickly and steeply downward; to thrust or throw into something; (noun) a steep and rapid fall

ANSWERS: 29. fascinate, 30. burrow, 31. incision, 32. anesthesia, 33. medicinal, 34. bayonet, 35. trocar, 36. biopsy, 37. plunge

38. assisted chi_____th *n.* the act or process of giving birth to a baby
39. fa_____te the young *v.* to attract and hold the attention of someone deeply and irresistibly
40. a sword sh____h *n.* a close-fitting cover to protect something such as the blade of a knife, sword, or other sharp objects
41. te_____y people *v.* to frighten someone very much
42. lap_____py surgery *n.* a surgical procedure that involves the insertion of a thin, lighted instrument called a laparoscope through a small incision in the abdomen, allowing doctors to examine and diagnose internal organs or perform minimally invasive surgeries
43. resolve without com_____ion *n.* something that makes a situation or condition that is complex or confused
44. ep_____al anesthesia *n.* referring to the area outside or above the dura mater (= the thick, durable outermost membrane of the three layers) ; (noun) medical procedure involving the injection of anesthetic into the epidural space of the spinal column
45. combat ba_____t *n.* a long, sharp-edged weapon, typically a knife or blade, attached to the muzzle end of a rifle or similar firearm, used for close combat, allowing soldiers to engage in hand-to-hand combat after firing their weapons if necessary

ANSWERS: 38. childbirth, 39. fascinate, 40. sheath, 41. terrify, 42. laparoscopy, 43. complication, 44. epidural, 45. bayonet

46. needle pu____re *n.* a small hole or wound made by piercing, such as with a needle, nail, or pointed object
47. an om____s silence *adj.* giving the impression that something bad is going to happen; foreboding
48. diagnostic lap____py *n.* a surgical procedure that involves the insertion of a thin, lighted instrument called a laparoscope through a small incision in the abdomen, allowing doctors to examine and diagnose internal organs or perform minimally invasive surgeries
49. ab____n pain *n.* the part of the body between the chest and pelvis that contains the stomach, intestines, liver, pancreas, and other organs; the posterior part of an insect's body, typically divided into segments
50. Ne____an mechanics *adj.* relating to Sir Isaac Newton or his laws of motion and universal gravitation

ANSWERS: 46. puncture, 47. ominous, 48. laparoscopy, 49. abdomen, 50. Newtonian

Session 3: Fill in the Blanks

1. There was a _____ between speed and accuracy in the task.
n. a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

2. The weightlifter used his strong _____ muscles to lift the heavy barbell.
n. the part of the body between the chest and pelvis that contains the stomach, intestines, liver, pancreas, and other organs; the posterior part of an insect's body, typically divided into segments

3. The motion of planets can be described using _____ mechanics.
adj. relating to Sir Isaac Newton or his laws of motion and universal gravitation

4. It would be best not to _____ your associates into doing complex tasks.
v. to frighten someone very much

5. I need to _____ my statement because I realized it was incorrect.
v. to take back, withdraw, or revoke something that has been said or done; to disavow or repudiate a statement or assertion that one has previously made

6. The company's profits _____ after the recall of their new product.
v. to dive quickly and steeply downward; to thrust or throw into something; (noun) a steep and rapid fall

7. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease

ANSWERS: 1. trade-off, 2. abdomen, 3. Newtonian, 4. terrify, 5. retract, 6. plunged, 7. medicinal

8. The _____ clouds in the sky foretold of an approaching storm.
adj. giving the impression that something bad is going to happen; foreboding
9. The tire had a _____ and needed to be replaced.
n. a small hole or wound made by piercing, such as with a needle, nail, or pointed object
10. The troops trained extensively in _____ techniques to prepare for combat.
n. a long, sharp-edged weapon, typically a knife or blade, attached to the muzzle end of a rifle or similar firearm, used for close combat, allowing soldiers to engage in hand-to-hand combat after firing their weapons if necessary
11. The _____ in the knee provide stability and support.
n. a band of tissue that connects bones or holds organs in place to support and stabilize the body
12. You can't _____ through solid metal.
v. to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal
13. The magic tricks _____ the children.
v. to attract and hold the attention of someone deeply and irresistibly
14. I need to _____ the additional information to the end of the report before submitting it.
v. to add or attach something, especially supplementary or additional information or material, to the end or after something else; to include or incorporate as an addition or enhancement
15. Patients undergoing _____ surgery are often put to sleep by anesthesia.
n. a sharp cut made in something with a sharp tool, especially during a medical procedure

ANSWERS: 8. ominous, 9. puncture, 10. bayonet, 11. ligaments, 12. burrow, 13. fascinated, 14. append, 15. incisional

16. He also continued to struggle with serious long-term _____.
- n.* something that makes a situation or condition that is complex or confused
17. He had long suffered from inflammation of a tendon _____.
- n.* a close-fitting cover to protect something such as the blade of a knife, sword, or other sharp objects
18. The doctor performed an excisional breast _____.
- n.* the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
19. He was present at the _____ of his children.
- n.* the act or process of giving birth to a baby
20. During childbirth, the doctor administered _____ anesthesia to alleviate the pain of contractions.
- n.* referring to the area outside or above the dura mater (= the thick, durable outermost membrane of the three layers) ; (noun) medical procedure involving the injection of anesthetic into the epidural space of the spinal column
21. The doctor examined the _____ on the patient's skin to determine if it was cancerous.
- n.* a damaged or abnormal area of tissue in the body, usually caused by injury or disease
22. A small camera is inserted into the abdomen during the _____ procedure to visualize the internal organs.
- n.* a surgical procedure that involves the insertion of a thin, lighted instrument called a laparoscope through a small incision in the abdomen, allowing doctors to examine and diagnose internal organs or perform minimally invasive surgeries

ANSWERS: 16. complications, 17. sheath, 18. biopsy, 19. childbirth, 20. epidural, 21. lesion, 22. laparoscopy

23. He is in general _____ under the surgeon.
- n.* a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
24. The surgeon inserted the _____ into the patient's abdomen for a laparoscopic procedure.
- n.* a medical instrument consisting of a sharp, pointed metal or plastic tube that is inserted into the body, usually through an incision, to withdraw fluid, drain abscesses, or facilitate the insertion of surgical instruments
25. She has 20 years of experience in _____.
- n.* medical operations conducted on the nervous system, including the brain, spinal cord, and individual nerves

ANSWERS: 23. anesthesia, 24. trocar, 25. neurosurgery