



Vocabulary Builder Reference from...

Melody Smith: How bones make blood | TED Talk

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

Advanced Words Only

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

platelet

n. a small, disc-shaped blood cell that is involved in the formation of blood clots and the maintenance of hemostasis (the process by which the body stops bleeding)

synonym: thrombocyte, clotting cell

(1) **platelet-rich** plasma, (2) **platelet** transfusion

My doctor said that my **platelet** count is a little low.

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**.

capillary

n. a tube of small internal diameter; any of the minute tubes that carry blood

(1) a **capillary** tube, (2) **capillary** action

There are many **capillary** vessels in the gills of fish.

lymphoma

n. a type of cancer that affects the body's lymphatic system, which is responsible for fighting infection and disease

synonym: lymphatic cancer, lymphoid tumor, lymph node cancer

(1) non-hodgkin **lymphoma**, (2) childhood **lymphoma**

My aunt was diagnosed with **lymphoma** and is undergoing

chemotherapy.

allogeneic

adj. relating to a transplant or blood transfusion between individuals of different genetic backgrounds

synonym : mismatched, non-self

(1) **allogeneic** transplant, (2) **allogeneic** response

Allogeneic bone marrow transplantation involves using donor bone marrow to replace a patient's damaged or diseased bone marrow.

circulate

v. to move continuously or freely around a place or closed system

synonym : flow, disperse, rotate

(1) **circulate** a rumor, (2) **circulate** an agenda before the meeting

The fan **circulates** the air in the room quickly.

ilium

n. the upper part of the hip bone in vertebrates, consisting of a broad, flaring blade and a curved, projecting socket that fits into the pelvis

synonym : pelvis, hip bone, coxal bone

(1) **ilium** bone, (2) **ilium** muscle

The athlete suffered from an **ilium** injury during the last match.

infuse

v. to fill something with a particular quality, feeling, or influence; to imbue

synonym : instill, fill, permeate

(1) **infuse** with spirit, (2) **infuse** life with meaning

She **infused** fresh herbs into the soup for added flavor.

chemokine

n. a type of protein that acts as a chemical messenger in the immune system, signaling to white blood cells where to go and what to do during an immune response

synonym : chemoattractant, cytokine

(1) cellular **chemokine**, (2) **chemokine** production

The **chemokine** receptor plays a crucial role in the immune

system's response to infection.

regenerate

v. to improve or renew an area, institution, system, etc., especially by making it more active or successful

synonym: renew, revive, improve

(1) **regenerate** bone tissue, (2) a **regenerate** sinner

The new CEO's primary mission is to **regenerate** the company on the verge of bankruptcy.

graft

n. a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods

synonym: transplant, implantation, bribery

(1) **graft** surgery, (2) anti- **graft** law

The patient's skin **graft** procedure was successful, and he was released from the hospital.

eradicate

v. to get rid of or destroy something completely, especially something bad

synonym: destroy, eliminate, exterminate

(1) **eradicate** the deficit, (2) **eradicate** racial discrimination

We are trying to **eradicate** this disease from the world.

stubborn

adj. refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change

synonym: persistent, obstinate, determined

(1) **stubborn** attitude, (2) **stubborn** stains

He was so **stubborn** about his beliefs that he refused to listen to any other points of view.

immunosuppressant

n. a drug that lowers or stops the body's normal immune response

(1) **immunosuppressant** therapy, (2) receive an **immunosuppressant**

We use **immunosuppressants** as an almost last resort for patients with this disease.

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym : cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

inherit

v. to receive money, property, or a title from someone after they have died

synonym : obtain, gain, acquire

(1) **inherit** estate, (2) **inherit** ancestral property

After his death, his sons **inherited** his business.

sibling

n. a brother or sister; member of a family born to the same parents

synonym : brother, sister, relative

(1) have a **sibling** quarrel, (2) play with my **siblings**

Children often copy their parents or elder **siblings**.

swab

n. a small piece of soft material used by a doctor, nurse, etc., for cleaning a cut or taking a sample from somebody's body for testing; (verb) apply, usually a liquid, to a surface

synonym : mop, scrub, daub

(1) alcohol **swab**, (2) cotton **swab**

He took a **swab** of his ear.

Session 2: Spelling

- | | |
|------------------------------------|---|
| 1. environmental det_____nt | <i>n.</i> a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result |
| 2. in___e life with meaning | <i>v.</i> to fill something with a particular quality, feeling, or influence; to imbue |
| 3. er_____te racial discrimination | <i>v.</i> to get rid of or destroy something completely, especially something bad |
| 4. gr__t surgery | <i>n.</i> a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods |
| 5. cellular ch_____ne | <i>n.</i> a type of protein that acts as a chemical messenger in the immune system, signaling to white blood cells where to go and what to do during an immune response |
| 6. a ca_____ry tube | <i>n.</i> a tube of small internal diameter; any of the minute tubes that carry blood |
| 7. cotton s__b | <i>n.</i> a small piece of soft material used by a doctor, nurse, etc., for cleaning a cut or taking a sample from somebody's body for testing; (verb) apply, usually a liquid, to a surface |

ANSWERS: 1. determinant, 2. infuse, 3. eradicate, 4. graft, 5. chemokine, 6. capillary, 7. swab

- | | |
|--|---|
| 8. blo_____am to the brain | <i>n.</i> the blood flowing through the body |
| 9. ca_____ry action | <i>n.</i> a tube of small internal diameter; any of the minute tubes that carry blood |
| 10. reg_____te bone tissue | <i>v.</i> to improve or renew an area, institution, system, etc., especially by making it more active or successful |
| 11. ci_____te an agenda before the meeting | <i>v.</i> to move continuously or freely around a place or closed system |
| 12. imm_____ant therapy | <i>n.</i> a drug that lowers or stops the body's normal immune response |
| 13. a det_____nt of crop yields | <i>n.</i> a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result |
| 14. ch_____ne production | <i>n.</i> a type of protein that acts as a chemical messenger in the immune system, signaling to white blood cells where to go and what to do during an immune response |
| 15. ci_____te a rumor | <i>v.</i> to move continuously or freely around a place or closed system |
| 16. blo_____am in an artery | <i>n.</i> the blood flowing through the body |
| 17. have a si_____g quarrel | <i>n.</i> a brother or sister; member of a family born to the same parents |
| 18. il__m muscle | <i>n.</i> the upper part of the hip bone in vertebrates, consisting of a broad, flaring blade and a curved, projecting socket that fits into the pelvis |

ANSWERS: 8. bloodstream, 9. capillary, 10. regenerate, 11. circulate, 12. immunosuppressant, 13. determinant, 14. chemokine, 15. circulate, 16. bloodstream, 17. sibling, 18. ilium

19. receive an imm_____ant *n.* a drug that lowers or stops the body's normal immune response
20. pl_____et transfusion *n.* a small, disc-shaped blood cell that is involved in the formation of blood clots and the maintenance of hemostasis (the process by which the body stops bleeding)
21. st_____rn attitude *adj.* refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change
22. a reg_____te sinner *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
23. in_____t ancestral property *v.* to receive money, property, or a title from someone after they have died
24. alcohol s__b *n.* a small piece of soft material used by a doctor, nurse, etc., for cleaning a cut or taking a sample from somebody's body for testing; (verb) apply, usually a liquid, to a surface
25. er_____te the deficit *v.* to get rid of or destroy something completely, especially something bad
26. st_____rn stains *adj.* refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change
27. play with my si_____gs *n.* a brother or sister; member of a family born to the same parents

ANSWERS: 19. immunosuppressant, 20. platelet, 21. stubborn, 22. regenerate, 23. inherit, 24. swab, 25. eradicate, 26. stubborn, 27. sibling

28. childhood ly____ma *n.* a type of cancer that affects the body's lymphatic system, which is responsible for fighting infection and disease
29. anti-gr__t law *n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods
30. non-hodgkin ly____ma *n.* a type of cancer that affects the body's lymphatic system, which is responsible for fighting infection and disease
31. all____ic transplant *adj.* relating to a transplant or blood transfusion between individuals of different genetic backgrounds
32. all____ic response *adj.* relating to a transplant or blood transfusion between individuals of different genetic backgrounds
33. pl____et-rich plasma *n.* a small, disc-shaped blood cell that is involved in the formation of blood clots and the maintenance of hemostasis (the process by which the body stops bleeding)
34. in___e with spirit *v.* to fill something with a particular quality, feeling, or influence; to imbue
35. il__m bone *n.* the upper part of the hip bone in vertebrates, consisting of a broad, flaring blade and a curved, projecting socket that fits into the pelvis

ANSWERS: 28. lymphoma, 29. graft, 30. lymphoma, 31. allogeneic, 32. allogeneic, 33. platelet, 34. infuse, 35. ilium

36. in_____t estate

v. to receive money, property, or a title
from someone after they have died

ANSWERS: 36. inherit

Session 3: Fill in the Blanks

1. My aunt was diagnosed with _____ and is undergoing chemotherapy.
 - n.* a type of cancer that affects the body's lymphatic system, which is responsible for fighting infection and disease

2. We use _____ as an almost last resort for patients with this disease.
 - n.* a drug that lowers or stops the body's normal immune response

3. He took a _____ of his ear.
 - n.* a small piece of soft material used by a doctor, nurse, etc., for cleaning a cut or taking a sample from somebody's body for testing; (verb) apply, usually a liquid, to a surface

4. Children often copy their parents or elder _____.
 - n.* a brother or sister; member of a family born to the same parents

5. She _____ fresh herbs into the soup for added flavor.
 - v.* to fill something with a particular quality, feeling, or influence; to imbue

6. The patient's skin _____ procedure was successful, and he was released from the hospital.
 - n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods

7. Cancer cells are often carried throughout the body by the _____.
 - n.* the blood flowing through the body

ANSWERS: 1. lymphoma, 2. immunosuppressants, 3. swab, 4. siblings, 5. infused, 6. graft, 7. bloodstream

8. We are trying to _____ this disease from the world.
v. to get rid of or destroy something completely, especially something bad
9. There are many _____ vessels in the gills of fish.
n. a tube of small internal diameter; any of the minute tubes that carry blood
10. One _____ of success is having a positive attitude and a strong work ethic.
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
11. He was so _____ about his beliefs that he refused to listen to any other points of view.
adj. refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change
12. The new CEO's primary mission is to _____ the company on the verge of bankruptcy.
v. to improve or renew an area, institution, system, etc., especially by making it more active or successful
13. The fan _____ the air in the room quickly.
v. to move continuously or freely around a place or closed system
14. _____ bone marrow transplantation involves using donor bone marrow to replace a patient's damaged or diseased bone marrow.
adj. relating to a transplant or blood transfusion between individuals of different genetic backgrounds
15. After his death, his sons _____ his business.
v. to receive money, property, or a title from someone after they have died

ANSWERS: 8. eradicate, 9. capillary, 10. determinant, 11. stubborn, 12. regenerate, 13. circulates, 14. Allogeneic, 15. inherited

16. The athlete suffered from an _____ injury during the last match.

- n.* the upper part of the hip bone in vertebrates, consisting of a broad, flaring blade and a curved, projecting socket that fits into the pelvis

17. My doctor said that my _____ count is a little low.

- n.* a small, disc-shaped blood cell that is involved in the formation of blood clots and the maintenance of hemostasis (the process by which the body stops bleeding)

18. The _____ receptor plays a crucial role in the immune system's response to infection.

- n.* a type of protein that acts as a chemical messenger in the immune system, signaling to white blood cells where to go and what to do during an immune response

ANSWERS: 16. ilium, 17. platelet, 18. chemokine