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Vocabulary Builder Reference from...

Emma Bryce: How does the immune system work? | TED Talk

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

Advanced Words Only

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Session 1: Word List

mosquito

n. a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria

synonym : insect, bug, flea

(1) **mosquito** bite, (2) **mosquito** repellent

A stagnant water area are breeding ground for **mosquitos**.

inject

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym : shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

telltale

adj. revealing or betraying information or evidence; serving as a sign or indicator of something

synonym : revealing, indicative, suggestive

(1) **telltale** evidence, (2) **telltale** heart

The **telltale** signs of a dishonest employee were missing files and constant delay.

- itch**
- v. to have an uncomfortable feeling on the skin that makes you want to scratch it
- synonym*: scratch, tingle, irritate
- (1) **itch** constantly, (2) **itch** to speak
- I can't stop **itching** my arm because of the mosquito bite.
- nuisance**
- n. something or someone that causes annoyance, inconvenience, or discomfort; an unpleasant or irritating thing or person
- synonym*: bother, annoyance, disturbance
- (1) traffic **nuisance**, (2) **nuisance** call
- The barking dog next door is becoming quite a **nuisance**.
- toxin**
- n. a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
- synonym*: poison, venom, contaminant
- (1) **toxin** exposure, (2) **toxin** production
- Mold exposure can release dangerous **toxins** into the air.
- leukocyte**
- n. the cells of the immune system that are involved in protecting the body against both infectious diseases and foreign invaders
- synonym*: white blood cell
- (1) **leukocyte** cell, (2) the function of **leukocyte**
- If the number of **leukocytes** is higher than the standard value, bacterial infection, cancer, or leukemia is suspected.
- originate**
- v. to come into existence in a particular place or situation; to start something in a specific place
- synonym*: begin, arise, create
- (1) **originate** from the country, (2) **originate** a political movement
- The flight **originates** in Vancouver.

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**.

lymph

n. a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading

(1) **lymph** vessel, (2) **lymph** flow

There was a massive swelling of the **lymph** nodes.

teem

v. to be abuzz; to move in large numbers; to fall heavily
synonym: brim, swarm, overflow

(1) **teem** with activity, (2) **teem** down

The city **teems** with traffic on holiday.

pathogen

n. a bacterium, virus, or other microorganism that causes disease

synonym: germ, microbe, bacterium

(1) plant **pathogen**, (2) the **pathogen** in the air

mRNA vaccines are approved faster because they do not contain inactivated **pathogens**.

betray

v. to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally

synonym: fail, denounce, display

(1) **betray** a friend, (2) **betray** confidence

He felt **betrayed** when his best friend revealed their secret to the enemy.

invade

v. to enter aggressively into another's territory by military force for conquest and occupation

synonym: intrude, raid, overrun

(1) **invade** other tissues, (2) **invade** his privacy

I have no intention to **invade** your privacy.

adaptable

adj. able or willing to modify or be modified to deal with new situations

synonym : flexible, adjustable, elastic

(1) **adaptable** enough for the environment, (2) an **adaptable** person

We seek a candidate who possesses **adaptable** fighting potential.

two-pronged

adj. having two prongs:

(1) **two-pronged** process, (2) **two-pronged** fork

A **two-pronged** attack with synchronized landings at both camps was deemed the optimal strategy.

phagocyte

n. a type of cell in the immune system that is capable of engulfing or absorbing foreign, harmful particles or microorganisms to protect the body from infection or disease

synonym : cell-eater, macrophage, scavenger cell

(1) **phagocyte** cells, (2) mononuclear **phagocyte** system

The **phagocyte** activity in the human body plays a crucial role in the immune response by engulfing harmful pathogens.

macrophage

n. a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells

synonym : white blood cell, scavenger cell, phagocyte

(1) **macrophage** activity, (2) **macrophage** dysfunction

Cancer cells can evade the immune system's detection by avoiding interactions with **macrophages**.

dendrite

n. a branched, tree-like structure that extends from a neuron (= nerve cell) and receives signals from other neurons and sensory receptors

synonym : nerve cell, branch, projection

(1) **dendrite** growth, (2) basal **dendrite**

Damage to **dendrites** can result in communication problems between neurons and may contribute to certain neurological

disorders.

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.

ingest

v. to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge

synonym: swallow, consume, devour

(1) **ingest** food, (2) **ingest** medication

People who compulsively **ingest** non-food items, such as dirt or chalk, suffer from a condition called pica.

orchestrate

v. to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music

synonym: plan, coordinate, arrange

(1) **orchestrate** a takeover, (2) **orchestrate** the political reinstatement

He carefully **orchestrated** the details of his business plan.

lymphocyte

n. a type of white blood cell that plays a role in the immune system's response to infection and disease

synonym: immune cell, white blood cell, T-cell

(1) activated **lymphocyte**, (2) **lymphocyte** depletion

Immunotherapy is a cancer treatment that uses the patient's T- **lymphocytes** to attack cancer cells.

infect

v. to affect a person, an animal, or a plant with a disease-causing organism

synonym: pollute, contaminate, affect

(1) **infect** other animal species, (2) **infect** a computer with a

virus

Children often **infect** parents with this head cold.

latch

n. a device for holding a door or gate closed, typically a sliding bar or bolt

synonym : lock, catch, bolt

(1) set the **latch**, (2) **latch** mechanism

The **latch** on the gate was broken, so the cows got loose.

swelling

n. an abnormal local enlargement of a part of your body, mainly because of illness or injury

synonym : bulge, bump, inflammation

(1) **swelling** of the ankle, (2) hard **swelling** on the body

After intensive icing by the trainer, the **swelling** went down.

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.

escalate

v. to increase in intensity, size, or severity; to make something greater, worse, or more serious

synonym : increase, intensify, expand

(1) **escalate** into a major international incident, (2) to **escalate**

The situation quickly **escalated** and turned violent.

revisit

v. to go to a place again, especially after a long period

synonym : reexplore, review, reexamine

(1) **revisit** a place, (2) **revisit** an old friend

We need to **revisit** this proposal as soon as the budget is more apparent than before.

pox

n. a group of infectious diseases that cause skin eruptions and fever, such as smallpox, chicken pox, and cowpox; often used to refer specifically to the skin eruptions

caused by these diseases

synonym : rash, infection, disease

(1) deadly **pox** disease, (2) **pox** virus

The child had a severe chicken **pox** and had to stay home for over a week.

autoimmune

adj. relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances

(1) insulin **autoimmune** syndrome, (2) **autoimmune** disorder

The presence of certain substances triggered the **autoimmune** response.

sabotage

n. the deliberate and malicious damage, destruction, or disruption of equipment, machinery, or other property, often by someone with a particular agenda or motive; the subversion of an organization or institution by secret agents or spies

synonym : sabotage, subversion, destruction

(1) act of **sabotage**, (2) **sabotage** mission

The **sabotage** of the factory's equipment caused significant damage.

underlie

v. to be the support, basis, hidden cause of something; to be located under or below

synonym : govern, control, determine

(1) **underlie** the theory of the big bang, (2) **underlie** the current economic deadlock

His bitter experiences **underlie** his moral principles.

sclerotic

adj. referring to the hardening or thickening of a tissue, organ, or other body parts, often due to infection, disease, or aging

synonym : hardened, rigid, stiff

(1) **sclerotic** lesion, (2) **sclerotic** plaques

The **sclerotic** arteries in his legs made it difficult for him to walk long distances.

innumerable

adj. too many to be counted

synonym: many, infinite, countless

(1) **innumerable** stars, (2) give **innumerable** interviews

We have overcome **innumerable** difficulties since our founding.

Session 2: Spelling

1. insulin aut_____ne syndrome *adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances
2. basal de_____te *n.* a branched, tree-like structure that extends from a neuron (= nerve cell) and receives signals from other neurons and sensory receptors
3. mo_____to bite *n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
4. sa_____ge mission *n.* the deliberate and malicious damage, destruction, or disruption of equipment, machinery, or other property, often by someone with a particular agenda or motive; the subversion of an organization or institution by secret agents or spies
5. un_____ie the theory of the big bang *v.* to be the support, basis, hidden cause of something; to be located under or below
6. t__m down *v.* to be abuzz; to move in large numbers; to fall heavily
7. blo_____am to the brain *n.* the blood flowing through the body
8. in___e his privacy *v.* to enter aggressively into another's territory by military force for conquest and occupation

ANSWERS: 1. autoimmune, 2. dendrite, 3. mosquito, 4. sabotage, 5. underlie, 6. teem, 7. bloodstream, 8. invade

9. lym_____te depletion *n.* a type of white blood cell that plays a role in the immune system's response to infection and disease
10. be___y confidence *v.* to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally
11. er_____te the deficit *v.* to get rid of or destroy something completely, especially something bad
12. sc_____ic lesion *adj.* referring to the hardening or thickening of a tissue, organ, or other body parts, often due to infection, disease, or aging
13. i__h to speak *v.* to have an uncomfortable feeling on the skin that makes you want to scratch it
14. in___t food *v.* to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge
15. be___y a friend *v.* to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally
16. aut_____ne disorder *adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances
17. in___t under the skin *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

ANSWERS: 9. lymphocyte, 10. betray, 11. eradicate, 12. sclerotic, 13. itch, 14. ingest, 15. betray, 16. autoimmune, 17. inject

18. mac_____ge dysfunction *n.* a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells
19. the pa_____en in the air *n.* a bacterium, virus, or other microorganism that causes disease
20. es_____te into a major international incident *v.* to increase in intensity, size, or severity; to make something greater, worse, or more serious
21. traffic nu_____ce *n.* something or someone that causes annoyance, inconvenience, or discomfort; an unpleasant or irritating thing or person
22. sc_____ic plaques *adj.* referring to the hardening or thickening of a tissue, organ, or other body parts, often due to infection, disease, or aging
23. give inn_____le interviews *adj.* too many to be counted
24. to__n production *n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
25. mononuclear ph_____te system *n.* a type of cell in the immune system that is capable of engulfing or absorbing foreign, harmful particles or microorganisms to protect the body from infection or disease
26. te_____le evidence *adj.* revealing or betraying information or evidence; serving as a sign or indicator of something

ANSWERS: 18. macrophage, 19. pathogen, 20. escalate, 21. nuisance, 22. sclerotic, 23. innumerable, 24. toxin, 25. phagocyte, 26. telltale

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|---|----|--|
| 27. in___t a personal opinion into a debate | v. | to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube) |
| 28. in___e other tissues | v. | to enter aggressively into another's territory by military force for conquest and occupation |
| 29. un_____ie the current economic deadlock | v. | to be the support, basis, hidden cause of something; to be located under or below |
| 30. or_____te from the country | v. | to come into existence in a particular place or situation; to start something in a specific place |
| 31. mac_____ge activity | n. | a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells |
| 32. i__h constantly | v. | to have an uncomfortable feeling on the skin that makes you want to scratch it |
| 33. er_____te racial discrimination | v. | to get rid of or destroy something completely, especially something bad |
| 34. set the la__h | n. | a device for holding a door or gate closed, typically a sliding bar or bolt |
| 35. ci_____te an agenda before the meeting | v. | to move continuously or freely around a place or closed system |
| 36. or_____te a political movement | v. | to come into existence in a particular place or situation; to start something in a specific place |
| 37. in___t other animal species | v. | to affect a person, an animal, or a plant with a disease-causing organism |

ANSWERS: 27. inject, 28. invade, 29. underlie, 30. originate, 31. macrophage, 32. itch, 33. eradicate, 34. latch, 35. circulate, 36. originate, 37. infect

38. ph_____te cells *n.* a type of cell in the immune system that is capable of engulfing or absorbing foreign, harmful particles or microorganisms to protect the body from infection or disease
39. ad_____le enough for the environment *adj.* able or willing to modify or be modified to deal with new situations
40. re_____t an old friend *v.* to go to a place again, especially after a long period
41. ly__h vessel *n.* a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading
42. sw_____ng of the ankle *n.* an abnormal local enlargement of a part of your body, mainly because of illness or injury
43. re_____t a place *v.* to go to a place again, especially after a long period
44. two_____ed process *adj.* having two prongs:
45. ly__h flow *n.* a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading
46. hard sw_____ng on the body *n.* an abnormal local enlargement of a part of your body, mainly because of illness or injury
47. mo_____to repellent *n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria

ANSWERS: 38. phagocyte, 39. adaptable, 40. revisit, 41. lymph, 42. swelling, 43. revisit, 44. two-pronged, 45. lymph, 46. swelling, 47. mosquito

48. orc_____te the political reinstatement
49. two_____ed fork
50. deadly p_x disease
51. activated lym_____te
52. in___t a computer with a virus
53. ci_____te a rumor
54. to__n exposure
55. la__h mechanism
56. le_____te cell
- v.* to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music
- adj.* having two prongs:
- n.* a group of infectious diseases that cause skin eruptions and fever, such as smallpox, chicken pox, and cowpox; often used to refer specifically to the skin eruptions caused by these diseases
- n.* a type of white blood cell that plays a role in the immune system's response to infection and disease
- v.* to affect a person, an animal, or a plant with a disease-causing organism
- v.* to move continuously or freely around a place or closed system
- n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
- n.* a device for holding a door or gate closed, typically a sliding bar or bolt
- n.* the cells of the immune system that are involved in protecting the body against both infectious diseases and foreign invaders

ANSWERS: 48. orchestrate, 49. two-pronged, 50. pox, 51. lymphocyte, 52. infect, 53. circulate, 54. toxin, 55. latch, 56. leukocyte

57. t__m with activity *v.* to be abuzz; to move in large numbers; to fall heavily
58. orc_____te a takeover *v.* to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music
59. p_x virus *n.* a group of infectious diseases that cause skin eruptions and fever, such as smallpox, chicken pox, and cowpox; often used to refer specifically to the skin eruptions caused by these diseases
60. nu_____ce call *n.* something or someone that causes annoyance, inconvenience, or discomfort; an unpleasant or irritating thing or person
61. the function of le_____te *n.* the cells of the immune system that are involved in protecting the body against both infectious diseases and foreign invaders
62. inn_____le stars *adj.* too many to be counted
63. an ad_____le person *adj.* able or willing to modify or be modified to deal with new situations
64. in___t medication *v.* to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge

ANSWERS: 57. teem, 58. orchestrate, 59. pox, 60. nuisance, 61. leukocyte, 62. innumerable, 63. adaptable, 64. ingest

65. plant pa____en *n.* a bacterium, virus, or other microorganism that causes disease
66. to es____te *v.* to increase in intensity, size, or severity; to make something greater, worse, or more serious
67. blo____am in an artery *n.* the blood flowing through the body
68. te____le heart *adj.* revealing or betraying information or evidence; serving as a sign or indicator of something
69. de____te growth *n.* a branched, tree-like structure that extends from a neuron (= nerve cell) and receives signals from other neurons and sensory receptors
70. act of sa____ge *n.* the deliberate and malicious damage, destruction, or disruption of equipment, machinery, or other property, often by someone with a particular agenda or motive; the subversion of an organization or institution by secret agents or spies

ANSWERS: 65. pathogen, 66. escalate, 67. bloodstream, 68. telltale, 69. dendrite, 70. sabotage

Session 3: Fill in the Blanks

1. We are trying to _____ this disease from the world.
 - v. to get rid of or destroy something completely, especially something bad

2. The _____ activity in the human body plays a crucial role in the immune response by engulfing harmful pathogens.
 - n. a type of cell in the immune system that is capable of engulfing or absorbing foreign, harmful particles or microorganisms to protect the body from infection or disease

3. Damage to _____ can result in communication problems between neurons and may contribute to certain neurological disorders.
 - n. a branched, tree-like structure that extends from a neuron (= nerve cell) and receives signals from other neurons and sensory receptors

4. Let's try to _____ a bit of enthusiasm into your performance.
 - v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

5. His bitter experiences _____ his moral principles.
 - v. to be the support, basis, hidden cause of something; to be located under or below

6. People who compulsively _____ non-food items, such as dirt or chalk, suffer from a condition called pica.
 - v. to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge

ANSWERS: 1. eradicate, 2. phagocyte, 3. dendrites, 4. inject, 5. underlie, 6. ingest

7. The situation quickly _____ and turned violent.
- v. to increase in intensity, size, or severity; to make something greater, worse, or more serious
8. mRNA vaccines are approved faster because they do not contain inactivated _____.
- n. a bacterium, virus, or other microorganism that causes disease
9. The fan _____ the air in the room quickly.
- v. to move continuously or freely around a place or closed system
10. The barking dog next door is becoming quite a _____.
- n. something or someone that causes annoyance, inconvenience, or discomfort; an unpleasant or irritating thing or person
11. I can't stop _____ my arm because of the mosquito bite.
- v. to have an uncomfortable feeling on the skin that makes you want to scratch it
12. There was a massive swelling of the _____ nodes.
- n. a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading
13. Immunotherapy is a cancer treatment that uses the patient's T-_____ to attack cancer cells.
- n. a type of white blood cell that plays a role in the immune system's response to infection and disease
14. The _____ on the gate was broken, so the cows got loose.
- n. a device for holding a door or gate closed, typically a sliding bar or bolt

ANSWERS: 7. escalated, 8. pathogens, 9. circulates, 10. nuisance, 11. itching, 12. lymph, 13. lymphocytes, 14. latch

15. Cancer cells are often carried throughout the body by the _____.
- n.* the blood flowing through the body
16. The flight _____ in Vancouver.
- v.* to come into existence in a particular place or situation; to start something in a specific place
17. A _____ attack with synchronized landings at both camps was deemed the optimal strategy.
- adj.* having two prongs:
18. The city _____ with traffic on holiday.
- v.* to be abuzz; to move in large numbers; to fall heavily
19. The _____ arteries in his legs made it difficult for him to walk long distances.
- adj.* referring to the hardening or thickening of a tissue, organ, or other body parts, often due to infection, disease, or aging
20. We seek a candidate who possesses _____ fighting potential.
- adj.* able or willing to modify or be modified to deal with new situations
21. We have overcome _____ difficulties since our founding.
- adj.* too many to be counted
22. The presence of certain substances triggered the _____ response.
- adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances

ANSWERS: 15. bloodstream, 16. originates, 17. two-pronged, 18. teems, 19. sclerotic, 20. adaptable, 21. innumerable, 22. autoimmune

23. A stagnant water area are breeding ground for _____.
- n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
24. The _____ of the factory's equipment caused significant damage.
- n.* the deliberate and malicious damage, destruction, or disruption of equipment, machinery, or other property, often by someone with a particular agenda or motive; the subversion of an organization or institution by secret agents or spies
25. After intensive icing by the trainer, the _____ went down.
- n.* an abnormal local enlargement of a part of your body, mainly because of illness or injury
26. The _____ signs of a dishonest employee were missing files and constant delay.
- adj.* revealing or betraying information or evidence; serving as a sign or indicator of something
27. If the number of _____ is higher than the standard value, bacterial infection, cancer, or leukemia is suspected.
- n.* the cells of the immune system that are involved in protecting the body against both infectious diseases and foreign invaders
28. Mold exposure can release dangerous _____ into the air.
- n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
29. The child had a severe chicken ____ and had to stay home for over a week.
- n.* a group of infectious diseases that cause skin eruptions and fever, such as smallpox, chicken pox, and cowpox; often used to refer specifically to the skin eruptions caused by these diseases

ANSWERS: 23. mosquitos, 24. sabotage, 25. swelling, 26. telltale, 27. leukocytes, 28. toxins, 29. pox

30. He felt _____ when his best friend revealed their secret to the enemy.
- v. to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally
31. I have no intention to _____ your privacy.
- v. to enter aggressively into another's territory by military force for conquest and occupation
32. Cancer cells can evade the immune system's detection by avoiding interactions with _____.
- n. a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells
33. Children often _____ parents with this head cold.
- v. to affect a person, an animal, or a plant with a disease-causing organism
34. He carefully _____ the details of his business plan.
- v. to plan, coordinate, or arrange something, especially skillfully or cleverly; (noun) the act of organizing or directing the elements of a composition, especially in music
35. We need to _____ this proposal as soon as the budget is more apparent than before.
- v. to go to a place again, especially after a long period

ANSWERS: 30. betrayed, 31. invade, 32. macrophages, 33. infect, 34. orchestrated, 35. revisit