

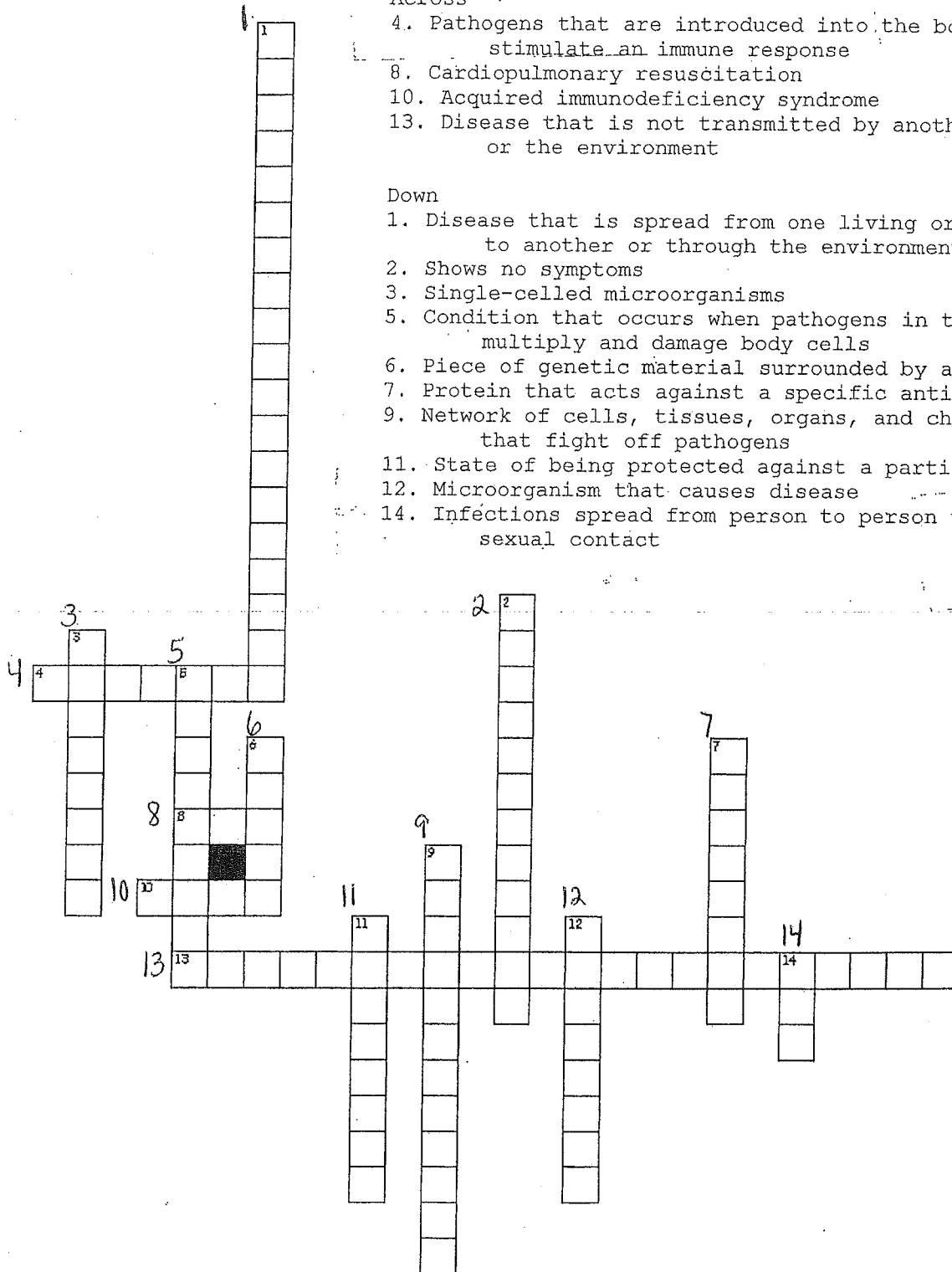
Diseases

Across

- 4. Pathogens that are introduced into the body to stimulate an immune response
- 8. Cardiopulmonary resuscitation
- 10. Acquired immunodeficiency syndrome
- 13. Disease that is not transmitted by another person or the environment

Down

- 1. Disease that is spread from one living organism to another or through the environment
- 2. Shows no symptoms
- 3. Single-celled microorganisms
- 5. Condition that occurs when pathogens in the body multiply and damage body cells
- 6. Piece of genetic material surrounded by a protein coat
- 7. Protein that acts against a specific antigen
- 9. Network of cells, tissues, organs, and chemicals that fight off pathogens
- 11. State of being protected against a particular disease
- 12. Microorganism that causes disease
- 14. Infections spread from person to person through sexual contact



Read each statement.

Mark each statement as one of the following:

Innate Immunity (I)

Active Immunity (A)

Passive Immunity (P)

1. The memory cells of your immune system produce huge numbers of antibodies against the disease.
2. You have received antibodies from another person that prevent you from getting a disease.
3. You have been immunized against a disease.
4. A pathogen has no effect on you or any other person.
5. Your body has launched an all-out attack on this pathogen before.
6. This type of immunity only lasts for a few weeks.
7. You have inherited resistance to this disease.
8. You might be able to feel your immune system going to work to help you develop this type of immunity.
9. This type of immunity can be passed to you only by your mother before you are born.
10. This type of immunity can be passed to you by one or both of your parents.
11. Once you have developed this type of immunity, you will have many years of protection against the disease.

STDs/AIDS Prediction Sheet

During the upcoming classes, we will be discussing various STDs as well as HIV/AIDS. Read the following statements and decide whether you think they are True or False. We will find the answers in our upcoming discussions.

| | True | False | Statement |
|-----|------|-------|---|
| 1. | | | Birth control pills prevent STDs. |
| 2. | | | Each STD requires a different treatment. |
| 3. | | | If one partner is treated for an STD, it isn't necessary for the other partner to be treated. |
| 4. | | | It is easy to tell when a person has an STD. |
| 5. | | | If a reportable STD is made know to public officials, they are required by law to contact all recent sex partners of the infected person. |
| 6. | | | The first phase of HIV infection is infection with no signs/symptoms of illness. |
| 7. | | | Oral intercourse with an infected person is "casual contact" and is considered a safe behavior in relation to HIV transmission. |
| 8. | | | Having multiple sex partners is considered a risky behavior. |
| 9. | | | Living in the same house as a person infected with HIV is considered a risky behavior. |
| 10. | | | Using the same water fountain as a person infected with HIV is considered a safe behavior. |

No Risk — Preventive — Risky

List the behaviors at the bottom of the worksheet in the correct category.

| |
|------------|
| NO RISK |
| |
| PREVENTIVE |
| |
| RISKY |
| |

vaginal intercourse with a prostitute
not shooting drugs
abstinence
oral sex using a condom
sharing drug needles and syringes.
oral sex with multiple partners
intercourse with one mutually
faithful, uninfected partner

unprotected vaginal, oral or anal sex
vaginal intercourse with someone
you don't know well
vaginal intercourse using a condom
kissing
body massage
anal intercourse
hugging

HEREDITARY

defective genes inherited by one/both parents (chromosomes/DNA)

- Sickle cell anemia = red blood cells abnormal, breathing/O₂ issues, African American
- Cystic fibrosis = secretion of thick mucus in lungs, breathing hard, white American vaporizers to treat death probable
- Tay-Sachs = fat in brain, seizures, mental retardation, death, eastern European
- muscular dystrophy = weaken/degenerate muscles, problems walking/standing
- type II diabetes = middle age, insulin not used properly, age/obesity
- allergies = overreaction of immune system, sneeze/cough/H₂O eyes
- Asthma = difficulty breathing, constricted airways; inhaler
- Down's syndrome = extra #21 chromosome, degree of mental retardation, heart defects

CONGENITAL

present from birth but not inherited. Exposure during pregnancy:

- fetal alcohol syndrome = drinking during pregnancy, low birth wt/mental retardation/facial deformities
- cerebral palsy = damage to brain resulting in paralysis, lack of muscular control of O₂ at birth; exposure to radiation/drugs during pregnancy
- epilepsy = electrical impulses in brain "short circuit", head injury/tumor
- seizures from simple to grand mal.

NON-INFECTIONS DISEASE

disease that a person cannot catch from another person or any other organism

immune system attacks own organs/body

- multiple sclerosis = fatty covering on nerves, stiffness/dizziness
- type I diabetes = ~~ata~~ juvenile diabetes, no insulin produced, thirst/hunger/urination/wt loss, give insulin injection
- rheumatoid arthritis = attack on membranes b/w joints, common in women
- Hashimoto's thyroiditis / Graves' disease = attack on thyroid gland
 - not enough hormone → take medicine
 - too much hormone → destroy thyroid

gradual damage to organs over time

- osteoarthritis = wear + tear over time, elderly, tx w/loop
- cardiovascular disease = damage to v + blood vessels
- cancer = cells lose normal growth

CVD caused by: atherosclerosis, high blood pressure, ...
 can lead to: heart attack, stroke

AUTOIMMUNE

DEGENERATIVE