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## Study finds popular weight-loss and diabetes medications may be linked to reduced risk of certain cancers

### Description

A recent study **published** in JAMA Network Open has revealed promising findings for individuals with type 2 diabetes who are taking GLP-1 drugs. These medications, such as Ozempic and Wegovy, were found to significantly reduce the risk of being **diagnosed** with 10 out of 13 obesity-related cancers. The study, conducted by **researchers** from Case Western Reserve University School of Medicine and the MetroHealth System, analyzed medical records of nearly 1.7 million people with type 2 diabetes.

Excess weight has long been linked to an increased risk of various cancers, with about 40% of new cancer diagnoses in the US being associated with excess weight. The study showed that GLP-1 drugs can decrease the risk of **gallbladder**, **pancreatic**, and liver cancers, among others. These medications interact with systems related to insulin production, potentially influencing cancer risk.

However, the study did not find a reduced risk for postmenopausal breast cancer, the most common type of cancer associated with obesity. Additionally, there was no significant difference in cancer diagnosis risk between individuals treated with GLP-1 drugs and those treated with **metformin**. Further research is needed to fully understand the relationship between these drugs and cancer prevention. These findings highlight the potential benefits of GLP-1 drugs in reducing cancer risk and warrant further investigation.

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### Vocabulary List:

1. **Gallbladder** /'gæl.blædər/ (noun): A small organ that stores bile produced by the liver.
  2. **Pancreatic** /'pæŋ.kri'æ.tɪk/ (adjective): Related to the pancreas, an organ that produces insulin and digestive enzymes.
  3. **Published** /'pʌb.lɪʃt/ (verb): Made available to the public, typically through print or digital media.
  4. **Diagnosed** /'daɪ.əg.nəʊzd/ (verb): Identified a disease or condition through examination and testing.
  5. **Researchers** /rɪ'sɜːr.tʃəz/ (noun): People who conduct studies to discover new information.
  6. **Metformin** /mɛt'fɔːrmɪn/ (noun): A medication commonly used to treat type 2 diabetes.
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6. **Metformin** /mɛt'fɔːr,mɪn/ (noun): A medication commonly used to treat type 2 diabetes.

## Comprehension Questions

### Multiple Choice

1. What type of diabetes were the individuals in the study diagnosed with?  
Option: Type 1 diabetes  
Option: Type 2 diabetes  
Option: Prediabetes  
Option: Gestational diabetes
2. Which of the following medications were found to reduce the risk of obesity-related cancers?  
Option: Insulin injections  
Option: Ozempic and Wegovy  
Option: Metformin  
Option: Aspirin
3. How many obesity-related cancers did the study show GLP-1 drugs to significantly reduce the risk of?  
Option: 5 out of 13  
Option: 10 out of 13  
Option: 15 out of 13  
Option: 20 out of 13
4. Which of the following cancers was NOT listed as being influenced by GLP-1 drugs in the study?  
Option: Gallbladder cancer  
Option: Pancreatic cancer  
Option: Liver cancer  
Option: Postmenopausal breast cancer
5. What is the percentage of new cancer diagnoses in the US that are associated with excess weight?  
Option: 10%  
Option: 25%  
Option: 40%  
Option: 50%
6. The study suggested that GLP-1 drugs may influence cancer risk through their interaction with systems



related to:

- Option: Cholesterol production
- Option: Insulin production
- Option: Vitamin absorption
- Option: Nerve impulses

## Answer

**Multiple Choice:** 1. Type 2 diabetes 2. Ozempic and Wegovy 3. 10 out of 13 4. Postmenopausal breast cancer 5. 40% 6. Insulin production

## Vocabulary quizzes

**Multiple Choice ( Select the Correct answer for each question. )**

1. Which disease is primarily transmitted by mosquitoes?
  - Option: Malaria
  - Option: Dengue
  - Option: Influenza
  - Option: Tuberculosis
2. Which medication is commonly used to treat type 2 diabetes?
  - Option: Aspirin
  - Option: Paracetamol
  - Option: Insulin
  - Option: Metformin
3. Which viral disease is typically transmitted through the bite of infected animals?
  - Option: Typhoid
  - Option: Mumps
  - Option: Rabies
  - Option: Hepatitis
4. Which system in the body is responsible for breathing and gas exchange?
  - Option: Digestive
  - Option: Respiratory
  - Option: Circulatory
  - Option: Nervous
5. What preventive measure involves administering vaccines to protect against diseases?



- Option: Quarantining
- Option: Isolating
- Option: Vaccinating
- Option: Filtering

6. What term is used to describe becoming infected with a disease?

- Option: Erase
- Option: Avoid
- Option: Catch
- Option: Evade

7. What is the verb that means to seek advice or information from someone?

- Option: Ignore
- Option: Consult
- Option: Dismiss
- Option: Refuse

8. Which type of impairment relates to mental processes such as thinking and memory?

- Option: Physical
- Option: Cognitive
- Option: Sensory
- Option: Emotional

9. What term describes making information or work available to the public?

- Option: Privatized
- Option: Restricted
- Option: Published
- Option: Concealed

10. Which term indicates something that is widespread or commonly found?

- Option: Rare
- Option: Scattered
- Option: Prevalent
- Option: Irregular

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. In the context of disease transmission a \_\_\_\_\_ is an organism that spreads the infection.



12. The patient displayed \_\_\_\_\_ symptoms that came and went periodically.
13. The \_\_\_\_\_ stores bile produced by the liver.
14. One of the early symptoms of the illness was a general feeling of \_\_\_\_\_ and discomfort.
15. Despite treatment the symptoms \_\_\_\_\_ for several weeks.
16. The \_\_\_\_\_ enzymes aid in digestion and are produced in the pancreas.
17. The discovery of the new genetic mutation has significant \_\_\_\_\_ for future research.
18. It is important to take necessary \_\_\_\_\_ to prevent the spread of the infectious disease.
19. The hospital reported a rare medical \_\_\_\_\_ involving an unknown virus.
20. The patient was diagnosed with a \_\_\_\_\_ condition that required long-term management.
21. Researchers are studying potential \_\_\_\_\_ that could indicate the presence of the disease.

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

22. Continuous monitoring and alertness are necessary to prevent outbreaks of diseases.
23. The spread of infectious agents from person to person is known as this process.
24. Mosquitoes are a common example of this carrier of diseases.
25. Individuals who conduct systematic investigations to gain new knowledge and insights.
26. To be limited or restricted within a defined space or area.
27. The chemical processes within the body that convert food into energy.



28. To identify a particular illness or problem by examining its symptoms.
29. A medical professional who treats and cares for animals.
30. A condition or disease that persists over a long period of time.
31. A physical or mental limitation that affects a person's abilities.

## Answer

**Multiple Choice:** 1. Dengue 2. Metformin 3. Rabies 4. Respiratory 5. Vaccinating 6. Catch 7. Consult 8. Cognitive 9. Published 10. Prevalent

**Gap-Fill:** 11. Vector 12. Intermittent 13. Gallbladder 14. Malaise 15. Persisted 16. Pancreatic 17. Implications 18. Precautions 19. Incident 20. Chronic 21. Biomarkers

**Matching sentence:** 1. Vigilance 2. Transmission 3. Vector 4. Researchers 5. Confined 6. Metabolic 7. Diagnosed 8. Veterinarian 9. Chronic 10. Impairment

## CATEGORY

1. Health - LEVEL3

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