



Simpler Endometriosis Diagnosis with Stool Test

Description

In women, the compound 4-hydroxyindole in poop may show if they have endometriosis. This condition happens when uterus tissue grows in other places in the body. It can be treated with surgery, but it takes a long time to diagnose because people don't know much about it.

Scientists studied poop from women with and without endometriosis. They found that women with the condition had low levels of 4-hydroxyindole in their poop. This could be because of changes in the gut bacteria.

By testing poop, doctors might be able to find endometriosis early. This can help in managing the condition better. Also, giving the compound 4-hydroxyindole to mice with endometriosis showed promising results. The mice had less severe symptoms and less pain.

This natural treatment could be helpful for humans too, but more research is needed. It's a simple way to diagnose and possibly treat endometriosis.

Topics:

- women's health/
- microbiome

Vocabulary List:

1. **Endometriosis** /,ɛn.doʊ.mə.tri'ɒs.sɪs/ (noun): A medical condition where tissue similar to the lining of the uterus grows outside the uterus.
2. **Diagnosis** /,daɪ.əg'noʊ.sɪs/ (noun): The identification of the nature of an illness or other problem by examination.
3. **Compound** /'kɒm.paʊnd/ (noun): A substance formed from two or more elements or ingredients.
4. **Bacteria** /bæk'tɪr.i.ə/ (noun): Microscopic organisms that exist as single cells or in clusters and can be beneficial or harmful.
5. **Severe** /sə'vɪr/ (adjective): Very great; intense or serious in nature.
6. **Promising** /'prɒm.ɪ.sɪŋ/ (adjective): Showing signs of future success or potential.

Comprehension Questions



Multiple Choice

1. What compound in poop may indicate the presence of endometriosis in women?
Option: 4-hydroxyindole
Option: Lactose
Option: Cholesterol
Option: Glucose
2. How is endometriosis characterized?
Option: Growth of uterus tissue in other body parts
Option: Bacterial infection in the gut
Option: Cancer of the reproductive organs
Option: Bone degeneration
3. What is a potential treatment for endometriosis mentioned in the text?
Option: Surgery
Option: Chemotherapy
Option: Physical therapy
Option: Acupuncture
4. What could cause low levels of 4-hydroxyindole in the poop of women with endometriosis?
Option: Changes in gut bacteria
Option: Dietary deficiencies
Option: Lack of exercise
Option: Genetic predisposition
5. How might doctors potentially diagnose endometriosis early?
Option: By testing poop samples
Option: By conducting blood tests
Option: By using X-ray imaging
Option: By performing ultrasound scans
6. What promising results were observed in mice with endometriosis when given 4-hydroxyindole?
Option: Less severe symptoms and pain
Option: Increased inflammation
Option: Worsening of symptoms
Option: No change in symptoms



True-False

7. Endometriosis can only be treated with surgery.
8. Low levels of 4-hydroxyindole in poop are unrelated to changes in gut bacteria.
9. Testing poop samples for 4-hydroxyindole could aid in early diagnosis of endometriosis.
10. Giving 4-hydroxyindole to mice with endometriosis had no effect on their symptoms.
11. The text suggests that more research is unnecessary for using 4-hydroxyindole to treat endometriosis in humans.
12. Endometriosis is a well-understood condition in the medical field.

Gap-Fill

13. Endometriosis is a condition where uterus tissue grows in other places in the body and can be treated with _____.
14. Doctors might be able to find endometriosis early by testing _____ samples.
15. The compound 4-hydroxyindole showed promising results in mice with endometriosis, leading to less severe symptoms and reduced _____.
16. More research is needed to determine the effectiveness of using 4-hydroxyindole to diagnose and possibly treat _____.
17. Women with endometriosis were found to have low levels of 4-hydroxyindole in their _____ samples.
18. Changes in _____ might be the reason for the low levels of 4-hydroxyindole in women with endometriosis.



Answer

Multiple Choice: 1. 4-hydroxyindole 2. Growth of uterus tissue in other body parts 3. Surgery 4. Changes in gut bacteria 5. By testing poop samples 6. Less severe symptoms and pain

True-False: 7. False 8. False 9. True 10. False 11. False 12. False

Gap-Fill: 13. surgery 14. poop 15. pain 16. endometriosis 18. gut bacteria

Vocabulary quizzes

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

1. Who presides over a court of law?

Option: Doctors

Option: Bakers

Option: Judges

Option: Carpenters

2. What medical condition involves tissue similar to the lining of the uterus growing outside the uterus?

Option: Endometriosis

Option: Appendicitis

Option: Arthritis

Option: Malaria

3. What refers to the results or effects of a particular action or situation?

Option: Consequences

Option: Origins

Option: Solutions

Option: Hypotheses

4. What describes the rationale of how an organization creates delivers and captures value?

Option: Business model

Option: Employee handbook

Option: Cookbook

Option: Atlas

5. What are the guidelines or rules set by an organization to achieve its goals?



- Option: Menus
- Option: Scripts
- Option: Schedules
- Option: Policies

6. What are microscopic organisms that exist in various forms?

- Option: Bacteria
- Option: Astronauts
- Option: Giraffes
- Option: Robots

7. What are assets acquired with the goal of generating income or appreciation?

- Option: Lessons
- Option: Gifts
- Option: Investments
- Option: Jokes

8. What refers to facts statistics or information collected for analysis?

- Option: Emotions
- Option: Data
- Option: Gestures
- Option: Proverbs

9. What are expressions of dissatisfaction or annoyance about a product or service?

- Option: Compliments
- Option: Complaints
- Option: Suggestions
- Option: Praise

10. What are limitations or conditions that constrain or control something?

- Option: Recipes
- Option: Contracts
- Option: Restrictions
- Option: Journals

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

11. _____ plays a crucial role in shaping the modern world.

12. The company focuses on meeting the needs and demands of the _____ market.



13. The advertisement _____ specific demographics to maximize effectiveness.
14. Personal development often involves continuous learning and _____.
15. The defendant vehemently denied the allegations made by the _____.
16. Training programs aim at _____ the skill sets of employees.
17. The storm caused _____ damage to the coastal areas.
18. The project team is _____ the workload among its members for better efficiency.
19. The average life _____ has significantly increased over the years.
20. Anniversaries are often a time to _____ milestones and achievements.

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

21. Regular exercise is to overall health and well-being.
22. The new research results show possibilities for future treatments.
23. The automobile has seen significant technological advancements in recent years.
24. An accurate is crucial for determining the appropriate medical treatment.
25. In a market companies strive to gain an edge over their rivals.
26. Carbon is a key in many organic compounds.
27. Some individuals have skin that requires special care.
28. Water is a simple composed of hydrogen and oxygen atoms.
29. in court evaluate evidence and deliver verdicts based on the law.
30. The new policy imposes certain on travel expenses.

Answer

Multiple Choice: 1. Judges 2. Endometriosis 3. Consequences 4. Business model 5. Policies 6. Bacteria
7. Investments



8. Data 9. Complaints 10. Restrictions

Gap-Fill: 11. Technology 12. Consumer 13. targets 14. growth 15. accuser 16. enhancing 17. severe 18. splitting 19. expectancy 20. celebrate

Matching sentence: 1. Beneficial 2. Promising 3. Industry 4. Diagnosis 5. Competitive 6. Element 7. Sensitive 8. Compound 9. Judges 10. Restrictions

CATEGORY

1. Sci/Tech - LEVEL2

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