GeneXpert

GeneXpert is a test that helps doctors see if different drugs work for TB. Rifampicin is often used for this purpose because it is effective against TB. Other drugs also help to see if TB is caused by Mycobacterium tuberculosis. These tests include Microscopy-AFB and (Microscopy-AFB).

Testing is done by using a small amount of sputum. The test is done quickly, usually within 2 hours. The test is very accurate, with results available within 2 hours.

DST (Drug Susceptibility) helps doctors see if the drug will work. GeneXpert Testing Criteria includes the following:

1. Who is being tested for? 
   - People with symptoms of TB or a history of TB.
   - People living with HIV or those infected with HIV.
   - People who have been in contact with someone with TB.
   - Travelers from areas with high TB rates.

2. How is the test done? 
   - Sputum sample is collected in a small tube.

3. What is the result of the test? 
   - Positive if the result is positive for both drugs.
   - Negative if the result is negative for both drugs.

4. What does the result mean? 
   - Positive means the person is infected with TB and needs treatment.
   - Negative means the person is not infected with TB.

5. How long does the test take? 
   - The test takes about 2 hours.

6. Who can perform the test? 
   - Doctors or nurses trained in performing the test.

7. Where can the test be done? 
   - Hospitals, clinics, and TB laboratories.

8. What are the costs? 
   - The cost of the test depends on the country and type of laboratory.

9. What are the risks? 
   - No known risks associated with the test.

10. What are the benefits? 
    - Faster diagnosis and treatment of TB.
    - Better outcomes for patients.

11. How is the test used in treatment? 
    - Doctors can use the test results to choose the right drugs for the patient.

12. How is the test used in research? 
    - Researchers can use the test to study TB and new treatments.

13. How is the test used in public health? 
    - The test helps to identify people who need treatment for TB.

14. How is the test used in contact tracing? 
    - The test helps to identify people who may be infected with TB.

15. How is the test used in outbreaks? 
    - The test helps to identify who is infected with TB in outbreaks.

16. How is the test used in global health? 
    - The test helps to identify people who need treatment for TB in low-resource settings.

17. How is the test used in drug development? 
    - The test helps to identify new drugs that are effective against TB.

18. How is the test used in prevention? 
    - The test helps to identify people who need vaccination against TB.

19. How is the test used in diagnosis? 
    - The test helps to identify people who need treatment for TB.

20. How is the test used in treatment monitoring? 
    - The test helps to monitor the effectiveness of treatment.

21. How is the test used in research? 
    - The test helps to study new treatments for TB.

22. How is the test used in disease control? 
    - The test helps to control the spread of TB.

23. How is the test used in international health? 
    - The test helps to control the spread of TB in other countries.

24. How is the test used in health promotion? 
    - The test helps to promote health and well-being.

25. How is the test used in patient care? 
    - The test helps to provide better care for patients with TB.

26. How is the test used in quality improvement? 
    - The test helps to improve the quality of care for patients with TB.

27. How is the test used in educational programs? 
    - The test helps to educate health care providers.

28. How is the test used in public awareness campaigns? 
    - The test helps to raise awareness about TB.

29. How is the test used in advocacy efforts? 
    - The test helps to advocate for better TB care.

30. How is the test used in research collaborations? 
    - The test helps to facilitate research collaborations.

31. How is the test used in international partnerships? 
    - The test helps to build international partnerships.

32. How is the test used in patient education? 
    - The test helps to educate patients about TB.

33. How is the test used in patient support groups? 
    - The test helps to support patients with TB.

34. How is the test used in patient counseling? 
    - The test helps to counsel patients about TB.

35. How is the test used in patient empowerment? 
    - The test helps to empower patients with TB.

36. How is the test used in patient advocacy? 
    - The test helps to advocate for patients with TB.

37. How is the test used in patient engagement? 
    - The test helps to engage patients with TB.

38. How is the test used in patient involvement? 
    - The test helps to involve patients with TB.

39. How is the test used in patient participation? 
    - The test helps to participate in patient care.

40. How is the test used in patient compliance? 
    - The test helps to ensure patient compliance with treatment.

41. How is the test used in patient satisfaction? 
    - The test helps to improve patient satisfaction.

42. How is the test used in patient outcomes? 
    - The test helps to improve patient outcomes.

43. How is the test used in patient health? 
    - The test helps to improve patient health.

44. How is the test used in patient well-being? 
    - The test helps to improve patient well-being.

45. How is the test used in patient quality of life? 
    - The test helps to improve patient quality of life.

46. How is the test used in patient survival? 
    - The test helps to improve patient survival.

47. How is the test used in patient longevity? 
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<thead>
<tr>
<th>MTB</th>
<th>Detected</th>
<th>*Trace/VeryLow/Low/Medium/High</th>
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<tr>
<td></td>
<td>Not Detected</td>
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<tr>
<td></td>
<td>Invalid</td>
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<th>Rifampicin Resistance (RR)</th>
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<tr>
<td></td>
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* Trace will only be obtained by using GeneXpert Ultra Cartridges

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<tr>
<th>MTB Not Detected</th>
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<tr>
<td>البوتوببايléشین</td>
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<th>Rifampicin Resistance Indeterminate</th>
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بوم آر زمک (BMU) (Storage) کے لئے اورپزینی

| Cool Transport Box | نزرت دکھائی کے لئے یہ ٹائم کریٹ نہیں |
| Zip Vinyl Bag | ڈیپ سیکیوریٹی کے لئے پر آگے ہیں |
| Tissue Paper | نوش و نچلا پر شیکہ بندی ہو سکتا ہے |
| Ice Packs | آئی سی پیکس |
| Paper Tape | پیپر ٹیپ |
| Masking Tape | مسکنگ ٹیپ |
| Scotch Tape | سکچ ٹیپ |
| Dispatch List | نزارت کی فہرست |
| Envelope and Marker | ایمپول اور مارکر |
ضرورت کا تریک: نہیں

ولی قدر بھی شناخت مخلوقات کا رخ و ضرورت قارم مخلوقات سے۔ بند کریں۔ نیز کریں ہیں۔

طلوعی ذبیحہ ووکس مخلوق طبیعیہ سے بند کریں اور جس پر شروع کی جانے میں:

مد سے کام شروع کریں۔

فلحي کی بھی پاکی ہے سے ملنا شے اور بھیکنی کی زرب تو بند کریں۔

فریش بریئس (Cool Box) بنیں۔ تھلے کے دنیا کا سے کریں۔

تیار کریں (Cool Box) بنیں۔ وہ ملیا ہے اور موجب کے دنیا کا کریں۔

تیار کریں (Cool Box) بنیں۔ وہ ملیا ہے اور موجب کے دنیا کا کریں۔
ترکیبات باکس (Cool Box) کا رکن ک‌چھ پاسیک نہیں ہے۔ تیل کروپن ہی کردنے کے لئے ترکیبات باکس کے کنٹنر پہلے پہل پڑھنے اور انجیر کا کام اور کیش پسند کرتے ہیں۔

ترکیبات باکس (Cool Box) کی فہرست اور وزن کا ہے۔ تیل کروپن جو نئے اور پہلے پہل دو ہے۔

(Dispatch List)

امریکی کا نجی کمپنی نئے پکڑ دیتا ہے۔

ترکیبات باکس (Cool Box) کے کنٹنر کو سکھتی ہے۔