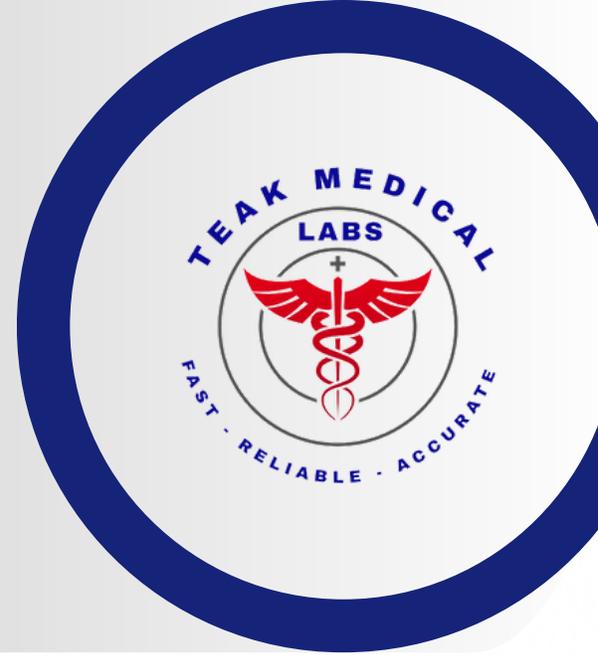


# RESPIRATORY PATHOGEN PANELS (RPPS)

This test can identify a variety of respiratory pathogens in just one sample, aiding in pinpointing the exact pathogen responsible for the infection.



## Accurate Diagnosis

RPPs help healthcare providers diagnose respiratory infections accurately by detecting various pathogens in a single sample. Enables targeted treatment and faster recovery.

## Early Detection

RPPs detect respiratory pathogens early, aiding in preventing infection spread and improving treatment outcomes.

## Targeted Treatment

Identifying the specific pathogen guides healthcare providers to choose effective treatments, reducing the use of broad-spectrum antibiotics.

## Cost Reduction

RPPs lower healthcare costs through quicker and precise diagnoses, leading to targeted treatment, faster recovery, and fewer hospitalizations.

## Improved Patient Outcomes

RPPs contribute to better patient outcomes by providing accurate diagnoses, targeted treatments, faster recoveries, and reduced complications.

**FAST**

**ACCURATE**

**RELIABLE**



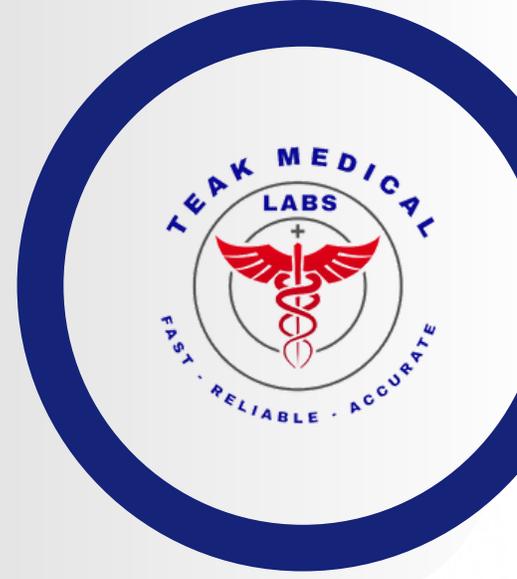
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# WOMENS HEALTH PANEL

Focuses on detecting various pathogens or genetic markers relevant to gynecological conditions, offering precise diagnostic insights to support timely and effective healthcare interventions.



- **Accurate and Sensitive Detection:** PCR is a highly sensitive method capable of detecting even small amounts of genetic material. This makes it effective for identifying infections or conditions that might be missed by other methods.
- **Early Diagnosis:** PCR can detect the presence of pathogens early in the course of an infection, allowing for prompt diagnosis and treatment, which can significantly improve outcomes.
- **Comprehensive Screening:** A women's health panel screens for multiple pathogens and conditions simultaneously. This comprehensive approach saves time and resources compared to testing for each condition individually.
- **Personalized Treatment:** By accurately identifying the specific pathogens or genetic markers involved, treatments can be tailored to the individual, improving the effectiveness of interventions and reducing unnecessary treatments.
- **Non-invasive Sample Collection:** Many PCR tests can be performed using non-invasive samples such as urine, swabs, or blood, making the process more comfortable for patients.
- **Rapid Results:** PCR technology can provide results quickly, enabling faster clinical decision-making.
- **Monitoring and Follow-Up:** PCR can be used to monitor the effectiveness of treatment by detecting the presence or absence of pathogens over time, ensuring that the treatment is working or if adjustments are needed.

**FAST**

**ACCURATE**

**RELIABLE**



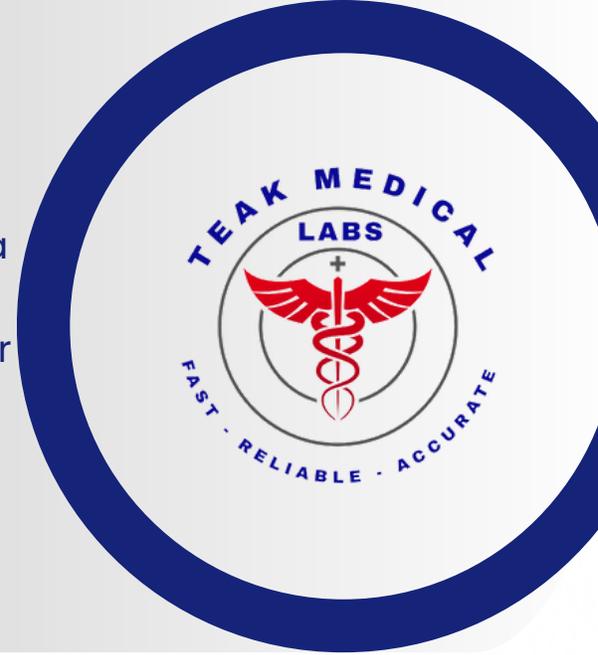
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# PHARMACOGENOMIC (PGX) TESTING

PGX testing is a type of genetic testing that analyzes a patient's genetic makeup to identify how their body may respond to certain medications. The test looks for specific genetic variations that can affect the way a patient's body metabolizes or responds to certain drugs.



## Personalized treatment

PGX testing can help healthcare providers tailor medication treatment plans to a patient's specific genetic makeup. This can lead to more effective treatment and fewer adverse drug reactions.

## Improved medication efficacy

By identifying genetic variations that affect how a patient's body metabolizes drugs, PGX testing can help healthcare providers choose medications that are more likely to be effective for a patient.

**Reduced risk of adverse drug reactions** Adverse drug reactions can occur when a patient's body does not metabolize a medication correctly. By identifying genetic variations that affect how a patient's body metabolizes drugs, PGX testing can help healthcare providers choose medications that are less likely to cause adverse reactions.

**Cost-effective** By identifying the most effective medication for a patient, PGX testing can help reduce the need for trial and error with different medications. This can help reduce healthcare costs associated with ineffective or unsafe medications.

## Improved patient outcomes

Overall, the use of PGX testing can lead to Improved patient outcomes. By providing more personalized medication treatment that is tailored to a patient's genetic makeup, patients may experience better treatment outcomes and improved quality of life.

**FAST**

**ACCURATE**

**RELIABLE**



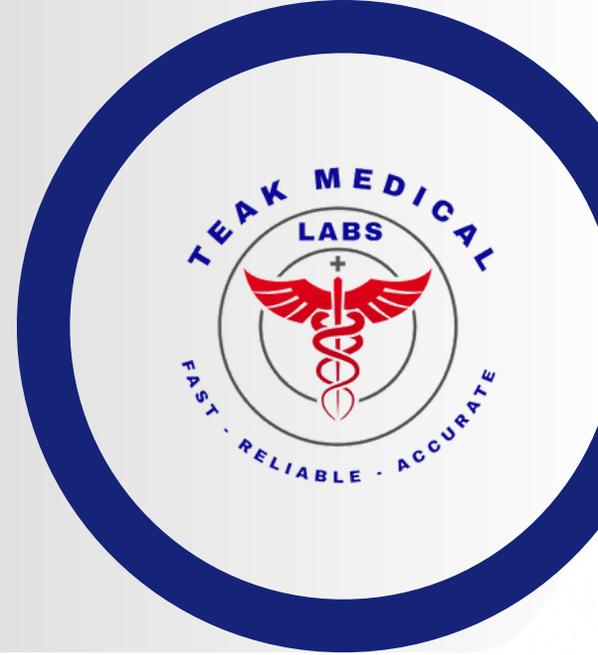
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# URINE PCR

Urine PCR (polymerase chain reaction) testing is a molecular diagnostic test that identifies genetic material from microorganisms like bacteria and viruses in urine samples. In comparison, conventional urine culture and sensitivity testing entail cultivating microorganisms in a lab dish and assessing their response to various antibiotics.



## **Faster results:**

PCR testing can provide results within hours, while traditional urine culture and sensitivity testing can take several days to produce results.

## **Increased accuracy**

PCR testing is more sensitive than traditional urine culture and sensitivity testing, as it can detect even low levels of microorganisms that may be missed by the traditional method.

## **Detection of non-culturable microorganisms**

Some microorganisms may not grow well in laboratory culture, making them difficult to detect using traditional methods. PCR testing can detect the genetic material of these microorganisms even if they cannot be cultured.

## **More targeted treatment**

Because PCR testing can identify the specific microorganisms causing an infection, it can help doctors choose the most effective antibiotic treatment, thereby reducing the risk of antibiotic resistance.

## **Reduction in unnecessary antibiotic use:**

With more targeted treatment, PCR testing can reduce the use of broad-spectrum antibiotics, which can lead to antibiotic resistance and other adverse effects.

**FAST**

**ACCURATE**

**RELIABLE**



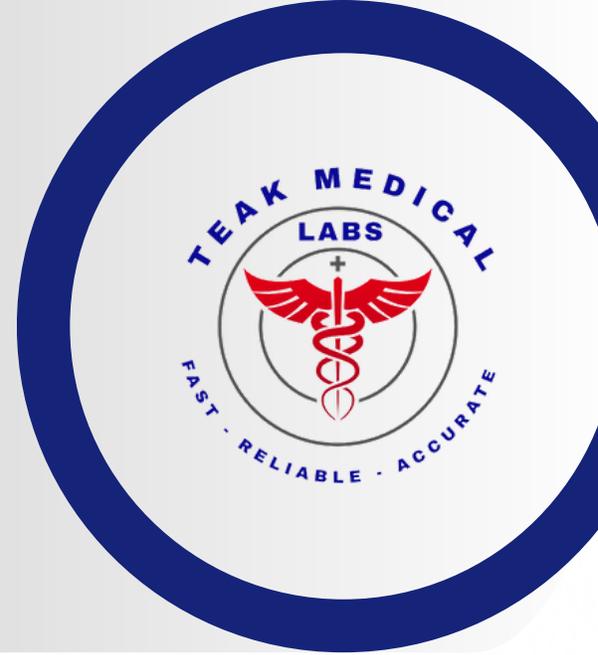
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# WOUND PCR TESTING

As compared with traditional cultures, wound PCR (polymerase chain reaction) testing offers a faster, more accurate, and comprehensive assessment of wound infections, supporting timely and targeted interventions for improved patient care.



**Rapid and accurate results:** PCR testing provides faster results compared to traditional cultures, allowing for prompt diagnosis and appropriate treatment. PCR can detect the presence of specific DNA or RNA sequences from bacteria, viruses, or fungi in the wound sample, offering high sensitivity and specificity.

**Enhanced detection of pathogens:** PCR can identify a wide range of microorganisms, including fastidious and slow-growing bacteria that may not grow well in traditional cultures. It can also detect multiple pathogens simultaneously, providing a comprehensive assessment of the wound microbiome.

**Improved antibiotic selection:** With PCR testing, providers can obtain information about the specific pathogens causing the infection and their resistance profiles, allowing for targeted antibiotic therapy. This helps to avoid unnecessary broad-spectrum antibiotic use and supports more effective treatment decisions.

**Increased diagnostic accuracy:** PCR testing offers high sensitivity and specificity, minimizing false-negative and false-positive results. This accuracy can help providers make more informed decisions regarding wound management, including the need for surgical interventions, wound debridement, or other specific treatments.

**FAST**

**ACCURATE**

**RELIABLE**



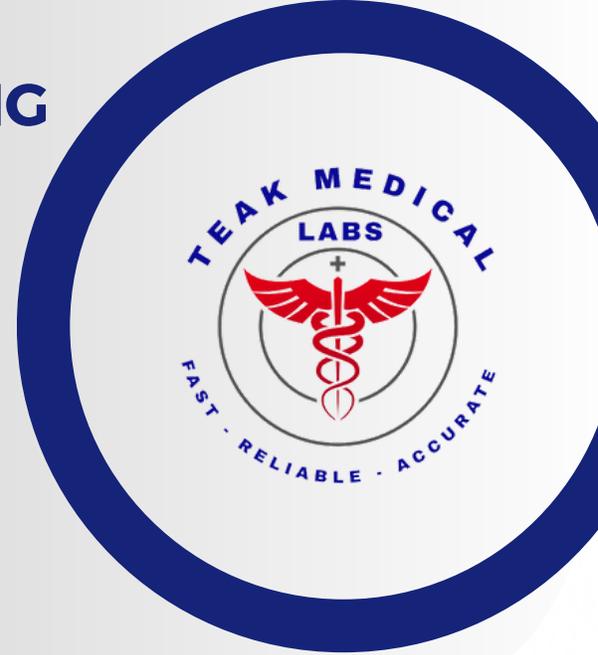
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# GASTROINTESTINAL PCR TESTING

Gastrointestinal PCR (Polymerase Chain Reaction) testing is a molecular diagnostic technique used to detect and identify the genetic material (DNA or RNA) of pathogens in the gastrointestinal tract. This method is highly sensitive and specific, enabling the rapid and accurate detection of various microorganisms, including bacteria, viruses, parasites, and fungi.



- **High Sensitivity and Specificity:** PCR technology can detect low levels of pathogens with high accuracy, ensuring reliable identification of gastrointestinal infections.
- **Rapid Results:** PCR test panels can provide results quickly, allowing for timely diagnosis and treatment of GI conditions.
- **Comprehensive Pathogen Detection:** GI PCR panels can simultaneously test for multiple pathogens, including bacteria, viruses, and parasites, offering a thorough assessment of potential causes of gastrointestinal symptoms.
- **Targeted Treatment:** Accurate identification of the specific pathogen enables providers to prescribe targeted treatments, improving the effectiveness of the intervention and reducing the use of broad-spectrum antibiotics.
- **Non-Invasive Sampling:** PCR tests can be performed using non-invasive stool samples or rectal swab making the testing process more comfortable for patients.
- **Enhanced Infection Control:** Rapid and accurate diagnosis helps in implementing appropriate infection control measures, reducing the risk of transmission within healthcare settings and the community.

**FAST**

**ACCURATE**

**RELIABLE**



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