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**REPRODUCTIVE  
HEALTH**

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**Phosphorus**  
Diagnostics



# Genomics, illuminated.



## **We focus on your peace of mind.**

Our expert-guided assay designs, powerful data analytics, and rigorous variant interpretation ensure accurate results for your patients.



## **Each test is flexible, because each case is unique.**

Our comprehensive and customizable panels are designed to handle the complexity of each patient's clinical history.



## **Simple, well-vetted patient reports are our forte.**

We create reports you and your patients can understand, giving you the depth and simplicity you need to confidently use and communicate results.



## **Consider us another set of hands.**

Our knowledgeable support team is here to help: from genetic counseling, to lab support, to facilitating family member testing, we want your workflow to be seamless.



## **We take care of billing so you don't have to.**

Transparent prices and billing policies are our priority, so you can spend time with your patients—not insurance companies.



## **We're driven by a broader mission.**

We're scientists at the core, and we want to work with you to conduct novel research into the genetics of multifactorial disease.

# Reproductive Health Panel

Although genetics play a critical role in reproductive health diagnoses and treatment outcomes, translation of these findings from bench to bedside has lagged.

The Phosphorus Reproductive Health test examines multiple genetic factors that may impact a patient's fertility or response to fertility treatment.

## 5 tests in 1

Phosphorus consolidates 5 separate tests into one easy-to-order panel, so you can spend less time ordering and more time with your patients.

### Female Infertility Panel

73 GENES

About 10% of female infertility can be attributed to known genetic factors.\*

- Sex chromosome aneuploidy
- Premature ovarian insufficiency
- Polycystic ovary syndrome
- Ovarian hyperstimulation syndrome
- Recurrent pregnancy loss

### Male Infertility Panel

20 GENES

Up to 15% of male infertility can be attributed to known genetic factors.\*

- Sex chromosome aneuploidy
- Y-chromosome microdeletions
- Congenital absence of the vas deferens
- Oligospermia
- Azoospermia

## Why Fertility Genetics?



### REFINING DIAGNOSIS

Genetic testing uncovers genetic contribution to infertility etiology.



### CLINICAL DECISION-MAKING

Genetic findings may facilitate personalized treatment planning and improved clinical outcomes.



### RISK ASSESSMENT

Identifying at-risk patients provides opportunities for early intervention, including fertility preservation.

# Simple testing workflow

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## **SAMPLE COLLECTION**

Blood and/or saliva collection kits are shipped directly from Phosphorus to providers' offices. Patient forms are included in the kits, along with a prepaid FedEx Clinical Pak.



## **DNA ANALYSIS**

Patient DNA is extracted and processed using next-generation sequencing technology in our CLIA-certified lab. Data is analyzed using Phosphorus' proprietary bioinformatics software, Elements.



## **REPORTING**

All variant interpretations are vetted through a rigorous quality control process that includes internal validations by Ph.D. scientists. Patient reports are sent to providers via secure email.



## **FOLLOW-UP**

Phosphorus is with you every step of the way and can provide referrals to board-certified genetic counselors through our third-party network. Genetic counselors are qualified to explain variants, genes, and conditions to patients.

# In-house testing partnership

Phosphorus collaborates with clinics and hospital networks to help establish and operate their own in-house laboratory genetic testing.

## OPERATIONAL ASSISTANCE

We advise on lab equipment purchases and setup, as well as protocols, validation, accreditation assistance, and personnel training.

## PREDESIGNED SEQUENCING ASSAYS

Phosphorus provides reproductive health, oncology, and cardiology testing in your in-house lab. NGS-based sequence capture powers our assays.

## REIMBURSEMENT CONSULTING

We offer reimbursement strategy consulting and review, and all sequencing assays are designed with medical necessity in mind.

## ELEMENTS SOFTWARE

Elements is a HIPAA-compliant, cloud-based software suite to support in-house genetic testing:



Track customer inventory of barcoded collection units



Optimize data entry and management of patient information



Track sample progress across multiple assays



Manage results from algorithms analyzing various data sources



Curate, annotate, and report on novel genomic variants



Automatically generate and transmit clinical reports



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**Phosphorus**  
Diagnostics

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