# New Diagonostic Biomarker For Pulmonary Veno-Occlusive Disease (Pvod)

Tech ID: 34450 / UC Case 2025-040-0

## INVENTION NOVELTY

## VALUE PROPOSITION

## TECHNOLOGY DESCRIPTION

UCSF researchers have developed a novel diagnostic biomarker test that uses circulating GDF15 protein levels to accurately identify pulmonary veno-occlusive disease (PVOD), a rare but deadly form of pulmonary hypertension. The technology is currently in the proof-of-concept stage. This breakthrough addresses a critical unmet medical need, as current genetic testing methods are unreliable—existing genetic markers can be found in approximately 10% of patients with different forms of pulmonary hypertension, leading to potentially fatal misdiagnoses and inappropriate treatments. The GDF15 biomarker offers the first sensitive and specific diagnostic tool for PVOD, enabling physicians to avoid administering standard pulmonary arterial hypertension therapies that can cause life-threatening complications including pulmonary edema and respiratory failure in PVOD patients.

## APPLICATION

## LOOKING FOR PARTNERS

## STAGE OF DEVELOPMENT

## RELATED MATERIALS

## DATA AVAILABILITY

## PATENT STATUS

Patent Pending

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## OTHER INFORMATION

**KEYWORDS**

PVOD, Rare disease,

Diagnostic

**CATEGORIZED AS**

- Biotechnology
  - Health
- Medical
  - Diagnostics
  - Disease: Respiratory and Pulmonary System

**RELATED CASES**

2025-040-0

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