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Hector O Ventura

EB PPT

BIOGRAPHY

Dr. Hector O. Ventura, MD is the Section Head, Cardiomyopathy and Heart Transplant Center at the Ochsner Clinic Foundation, New Orleans, Louisiana. He is also a Professor, Cardiology, University of Queensland School of Medicine, Ochsner Clinical School, Brisbane, Australia as well as a Professor of Medicine at the Tulane University School of Medicine in New Orleans. He completed an internship and residency at the Central Military Hospital in Buenos Aires, followed by research fellowships in arterial hypertension and cardiovascular diseases, an internship, and an internal medicine residency at the Ochsner Medical Institutions in New Orleans.

RESEARCH INTEREST

Arterial hypertension following cardiac transplantation, the effect of digitalis on mortality in heart failure, Lipid profiles after cardiac transplantation.

Pulmonary Arterial Hypertension: histopathological features

Normal

- Intima
- Endothelium
- Media and smooth muscle
- Adventitia

Intimal and medial thickening

- Endothelial proliferation
- Intimal fibrosis
- Medial and smooth muscle cell hypertrophy

Intimal fibrosis and in situ thrombosis

- In situ thrombosis
- Intimal fibrosis

Collateral flux

Plexiform lesion

Media

Intimal fibrosis

Direction of blood flow

Pulmonary Arterial Hypertension

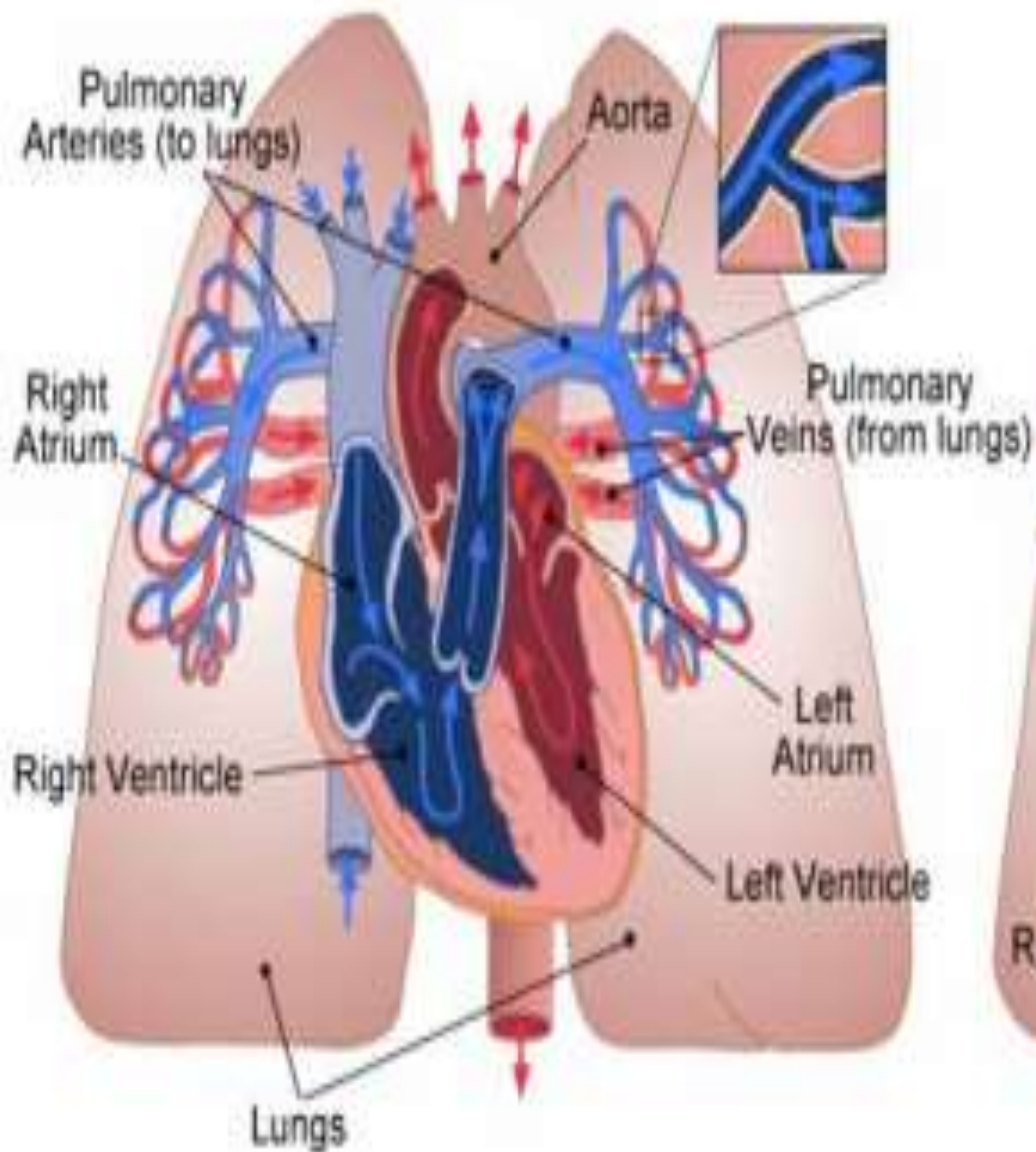
Primary Pulmonary Hypertension (PPH)

- Sporadic
- Familial

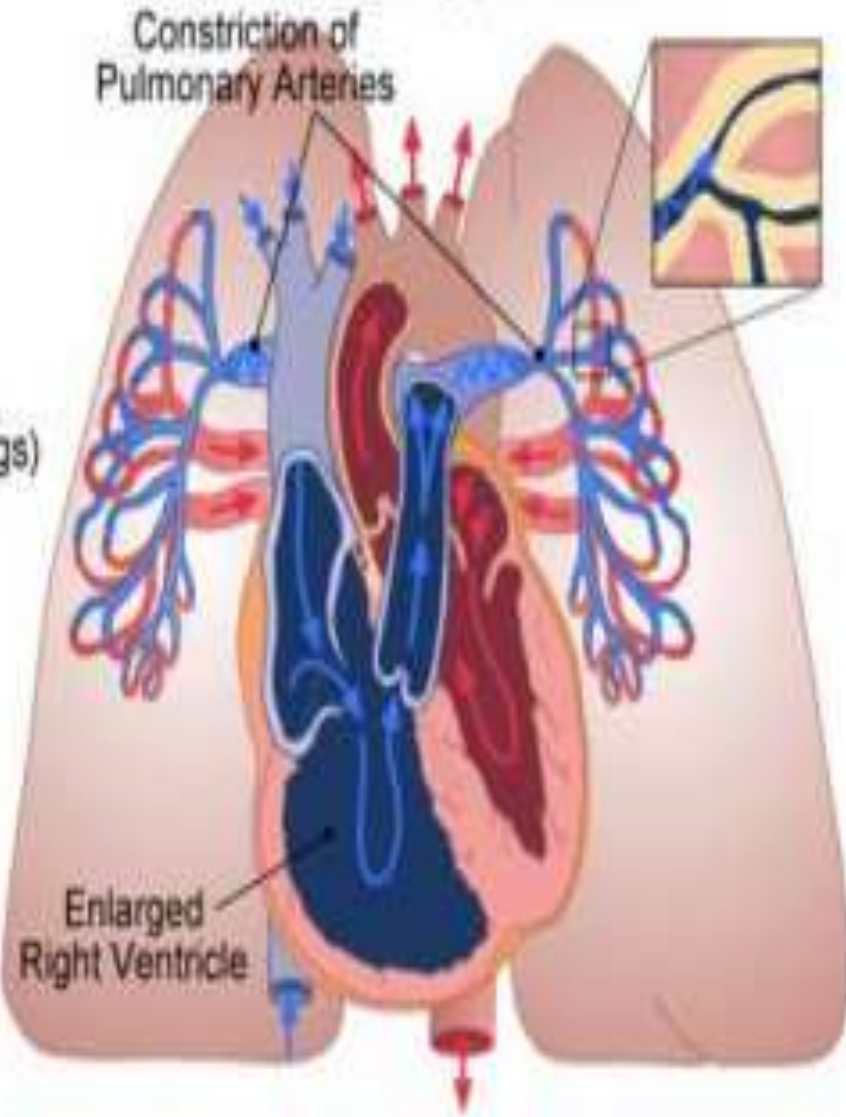
Pulmonary Hypertension Associated with:

- Collagen Vascular Disease
- Congenital Systemic to Pulmonary Shunts
- Drugs/Toxins
- Portal Hypertension
- HIV Infection

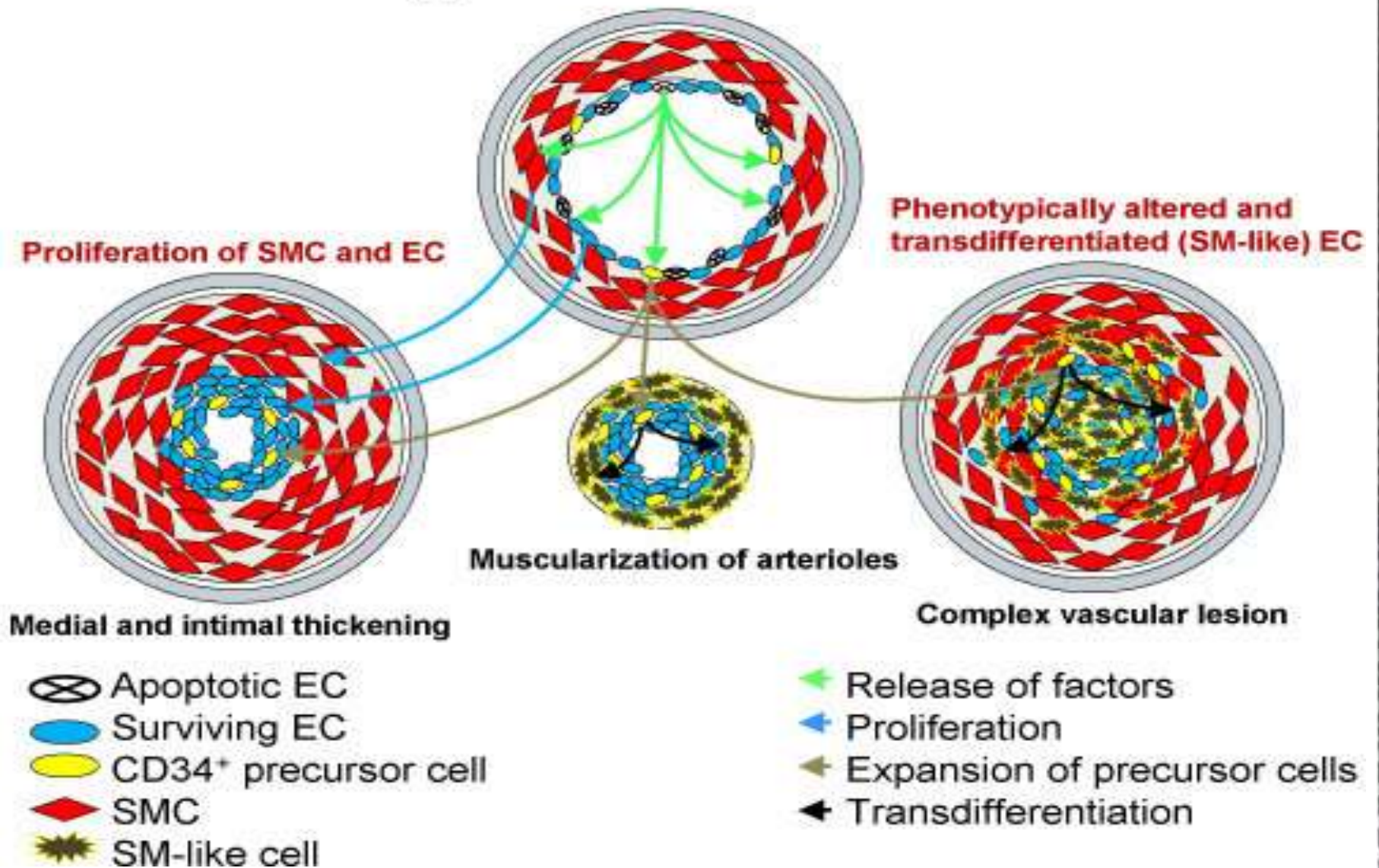
Normal Heart



Pulmonary Hypertension



Pulmonary arterial hypertension - a hypothetical mechanism -



BMPR2 haploinsufficiency

Other genetic factors:

ALK1 *SMAD1*

CAVI *SMAD4*

ENG *SMAD9*

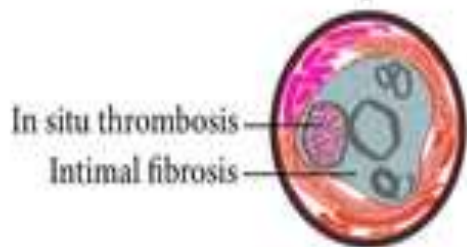
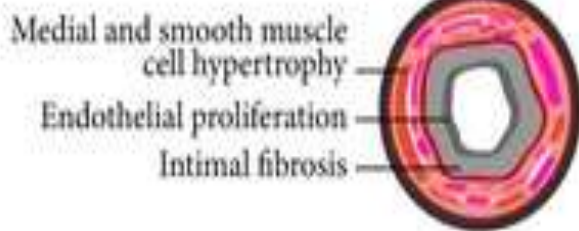
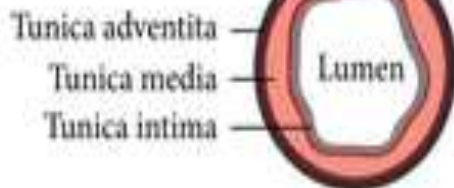
Environmental factors:

Hypoxia

Infection

Appetite suppressant drugs
(dex/fenfluramine)

Toxic oil

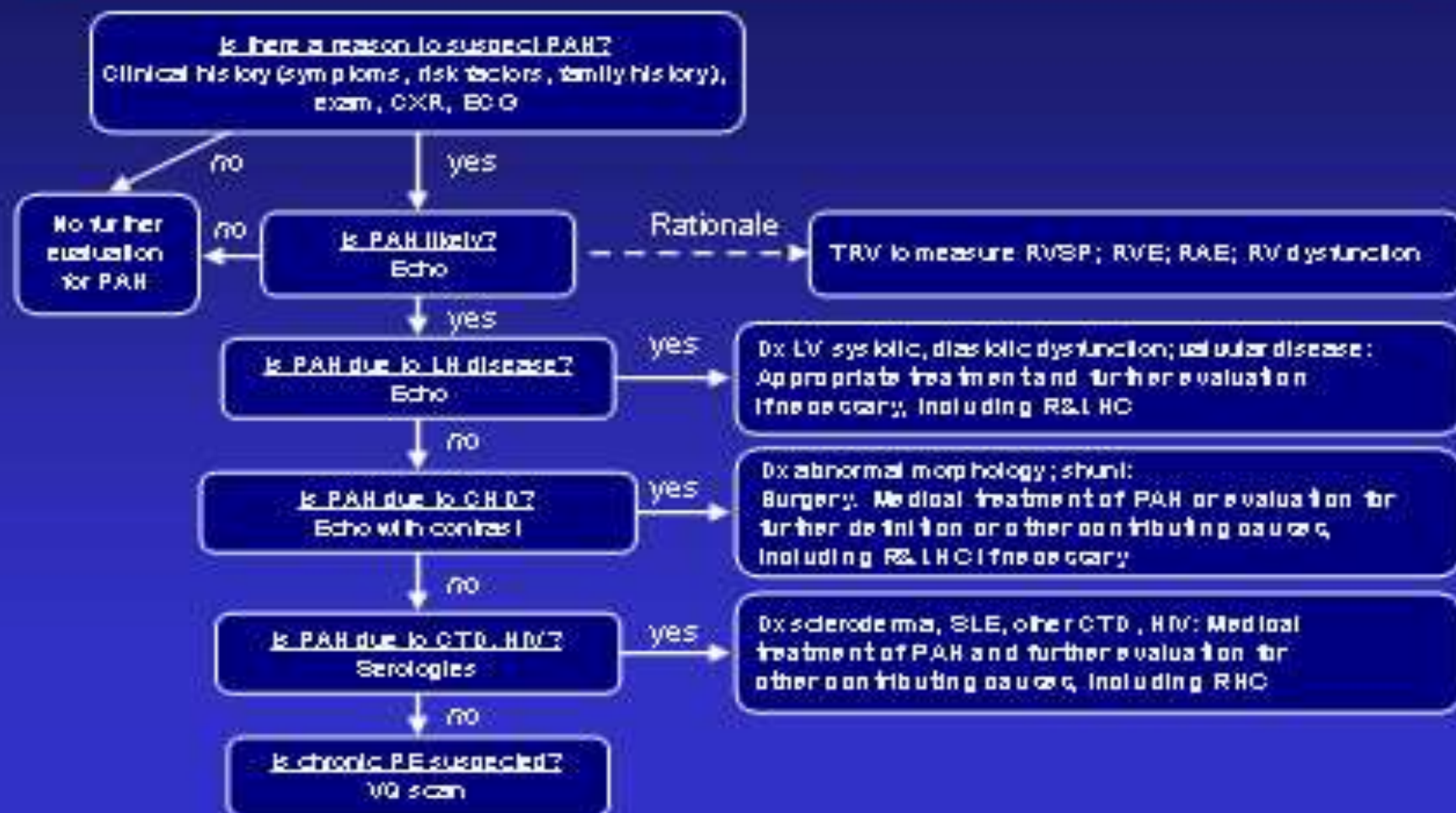


Pulmonary arterial hypertension

Thrombosis
Lipid mediator dysregulation
Extracellular matrix
Nitric oxide chemistry
Autoimmunity
Potassium channel disruption
Endothelin-1 dysregulation
Serotonin dysregulation
Inflammation
Decreased BMP signalling
Increased TGF- β signalling

Pulmonary Arterial Hypertension

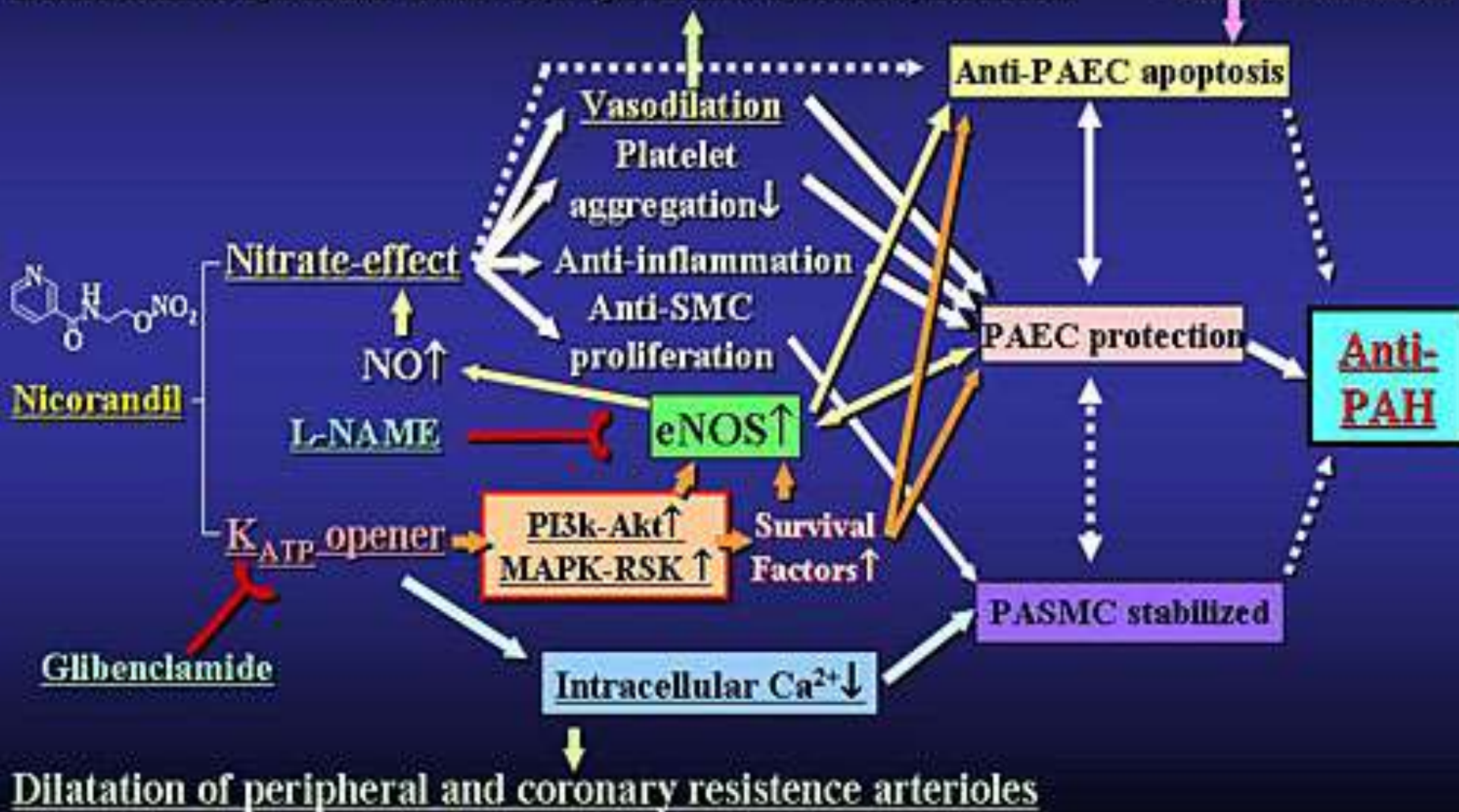
Detection and Diagnosis

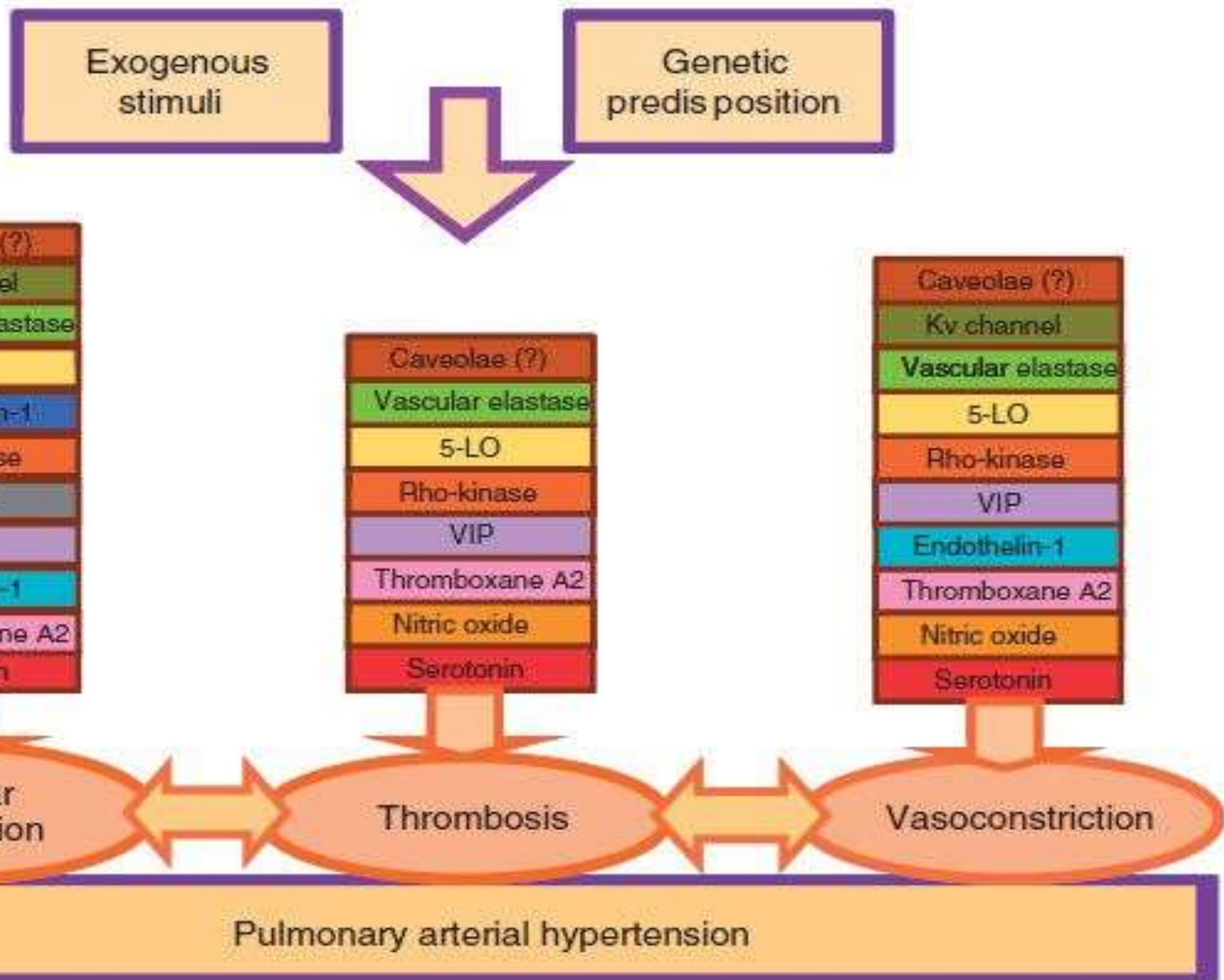


The mechanism by which nicorandil attenuates MCT-induced pulmonary arterial hypertension

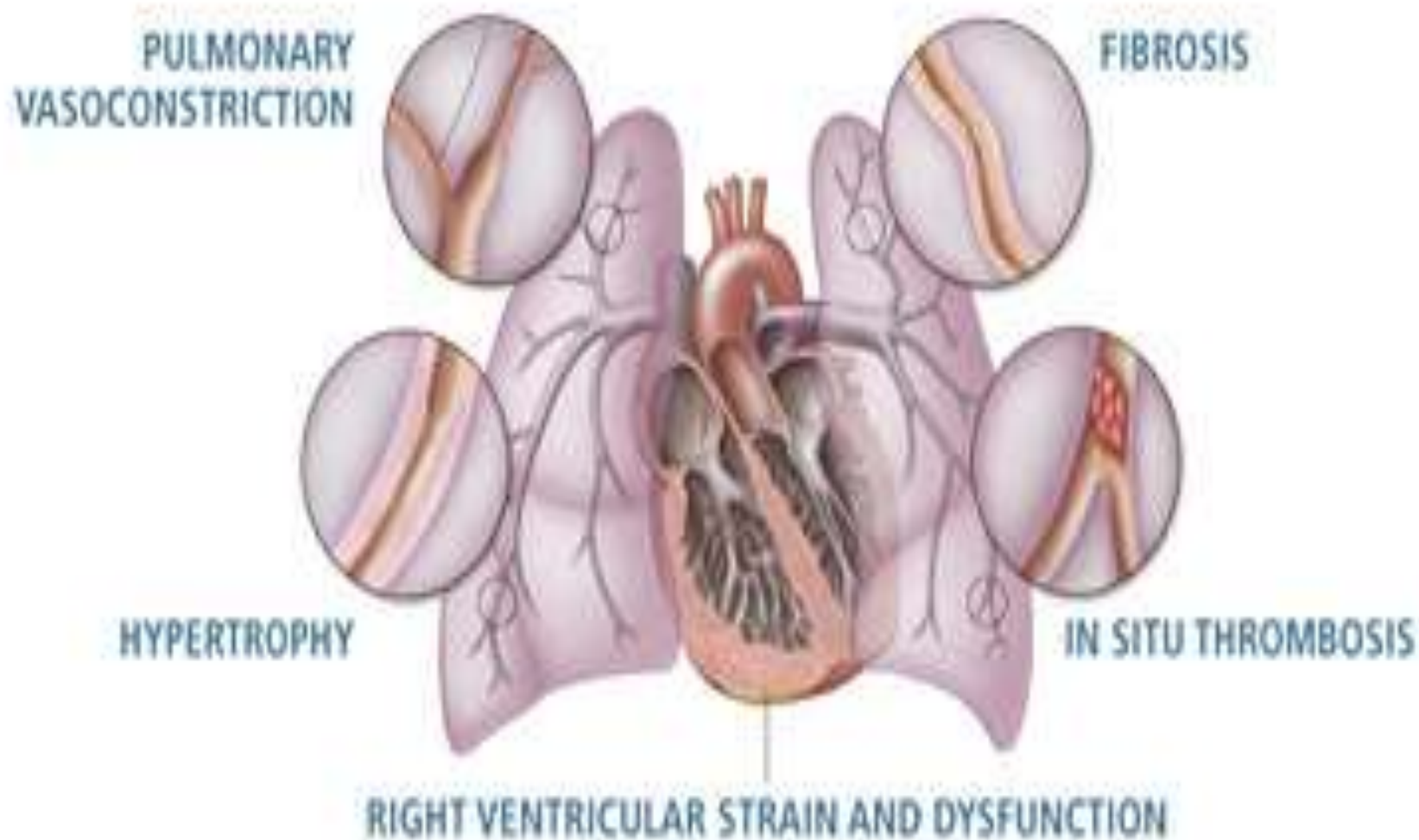
Dilatation of systemic veins and epicardial coronary arteries

Caspase-inhibitor



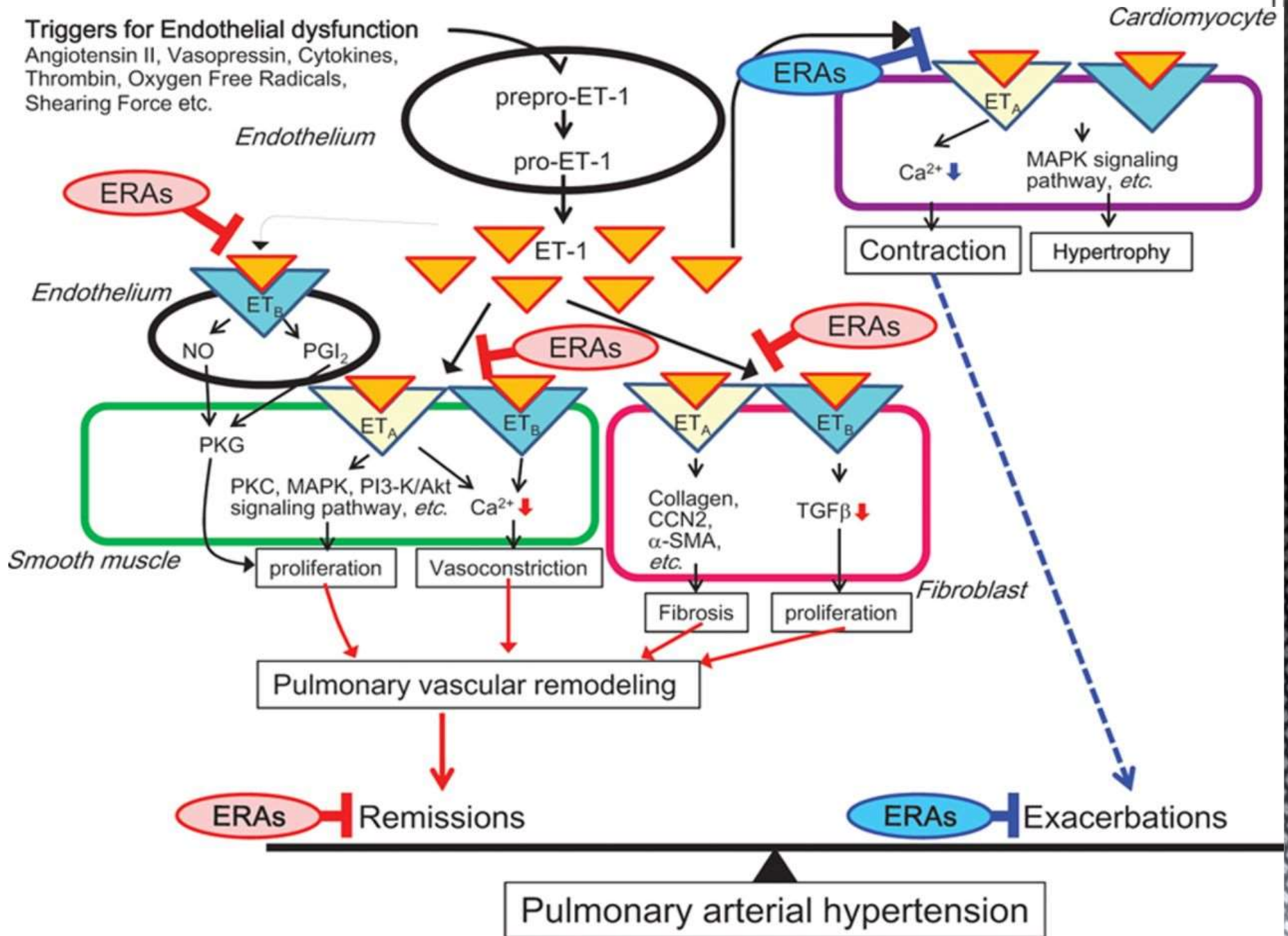


Diverse Pathophysiology of Pulmonary Arterial Hypertension

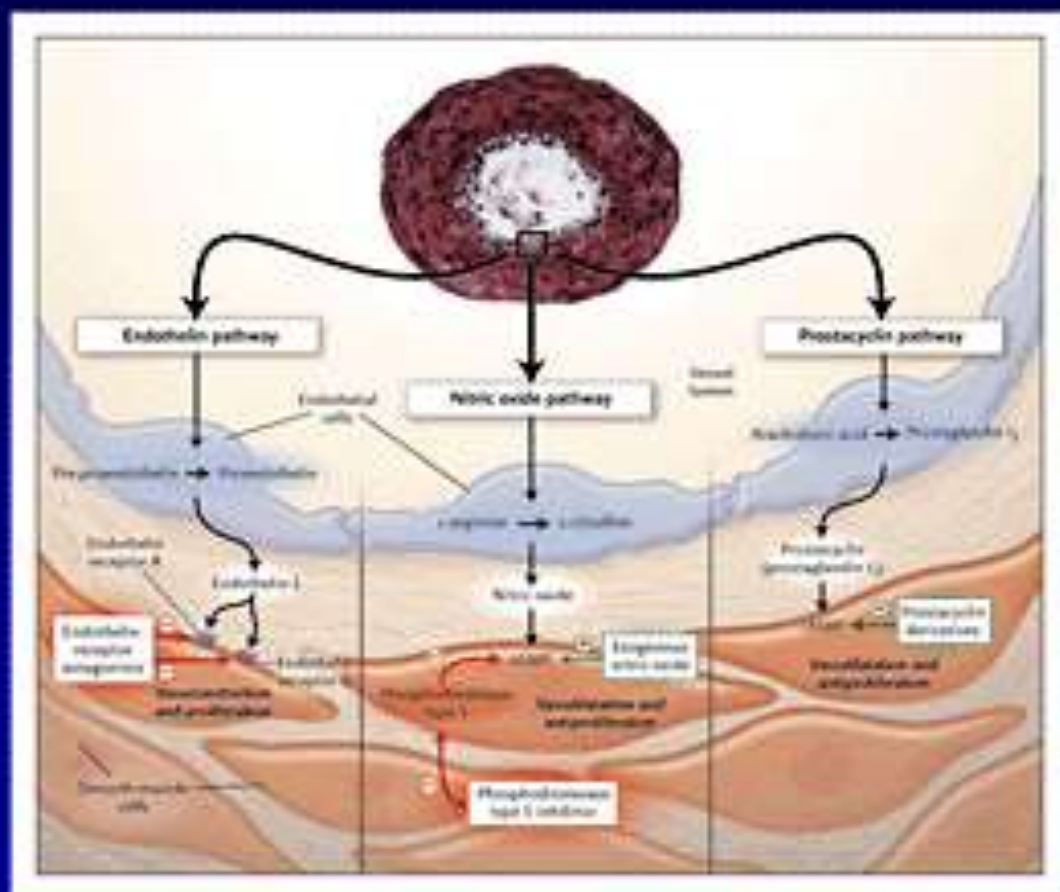


Triggers for Endothelial dysfunction

Angiotensin II, Vasopressin, Cytokines, Thrombin, Oxygen Free Radicals, Shearing Force etc.



Targets for Current or Emerging Therapies in Pulmonary Arterial Hypertension



SIGNATURE

Hector O Ventura

Drug Designing

Drug Metabolism &
Toxicology

Bioequivalence &
Bioavailability

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