

## Pulmonary Endothelial Modification

### Primary Modifications

Genetic mutations

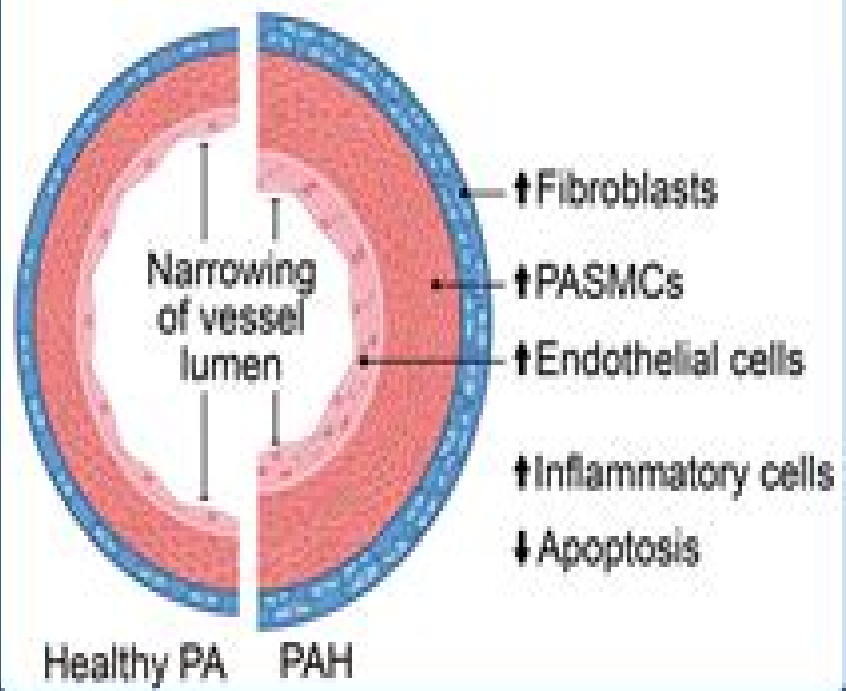
### Secondary Modifications

Epigenetic alteration

Environmental factors



## Vascular Phenotypic Modification



## Triggers

Epigenetics, genetics, metabolic disorders, hypoxia, inflammation, apoptosis/proliferation imbalances, endothelial dysfunction, oxidative stress, vascular injury

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**Brendan G. Carr**



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