Figure 2

PREATHEROSCLEROTIC STAGE

**Functional remodeling**
- decreased endothelial vasodilation
- increased vasoconstriction

**Structural remodeling**
- smooth muscle cell hypertrophy
- elastic fiber alterations
- mucoid degeneration
- leukocyte infiltration
- cytokine expression

ATHEROSCLEROTIC STAGE

- foam cells
- fatty streak
- extracellular lipid accumulation
- fibrotic-calcific layers

---

**Hypoxia-Reoxygenation**

- Hemodynamic and Hormono-Metabolic Alterations

**Vascular inflammation**

- adaptive remodeling
- degenerative remodeling

**Systemic inflammation**

**Atherosclerosis**