Main pathogenic mechanisms of the inhalation of particulate matter (PM) on cardiovascular disease

**PM inhalation**

**Mechanisms**
1. Inflammatory mediators
2. Autonomic imbalance
3. Direct blood translocation

**Cardiovascular effects**

**Blood**
- Leukocyte activation
- Platelet activation
- Hypercoagulability

**Blood vessels**
- Endothelial dysfunction
- Hypertension
- Atherosclerosis

**Heart**
- Alterations of cardiac function
- Alterations of cardiac rhythm
- Myocardial ischemia

Mannucci et al., Haematologica, 2019