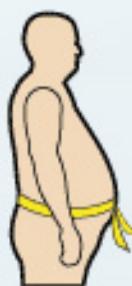


## METABOLIC SYNDROME



### Lipoproteins

High amount of Small dense LDL  
Low HDL level  
Oxidation stress

### Adipokines

↓ Adiponectin  
↑ Resistin  
↑ Leptin

### Proinflammatory state

↑ Interleukin-6  
↑ TNF- $\alpha$   
↑ CRP

### Prothrombotic state

PAI-1



## Cardiopulmonary Bypass



Inflammation  
Cytokines  
Free radicals