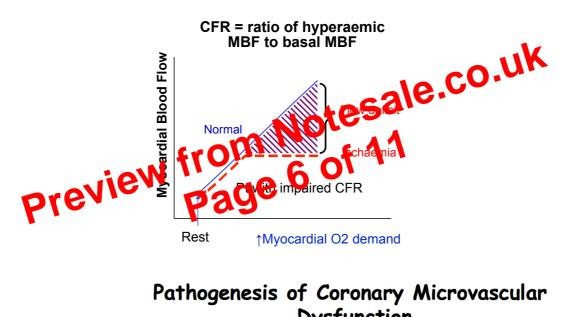
Burden to individual

- · Cardiologists can send patients home as their arteries look 'normal'
- Impaired quality of life
- Psychosocial morbidity
- Financial hardship
- Prognosis: Impaired survival (?)

Coronary Flow reserve

- Physiologically, Myocardial Blood Flow increases several-fold in response to an increased myocardial oxygen demand
- CFRis reduced due to stenosis
- In the absence of coronary stenoses, CFR reflects microvascular function
- · Ischaemia obstruction to blood flow in coronary tree



Pathogenesis of Coronary Microvascular Dysfunction

*Functional is the most common

Disorganised muscle in vessel wall -->

Structural

·Lumenal obstruction by microemboli, amyloid or debris

·Remodelling of intramural arterioles (HCM, hypertension)

Vessel rarefaction (Ao stenosis, hypertension)

Functional

Endothelial dysfunction

Inflammation (Conventional risk factors)

Poor dilatory capacity

Vasoconstriction (microvascular spasm)