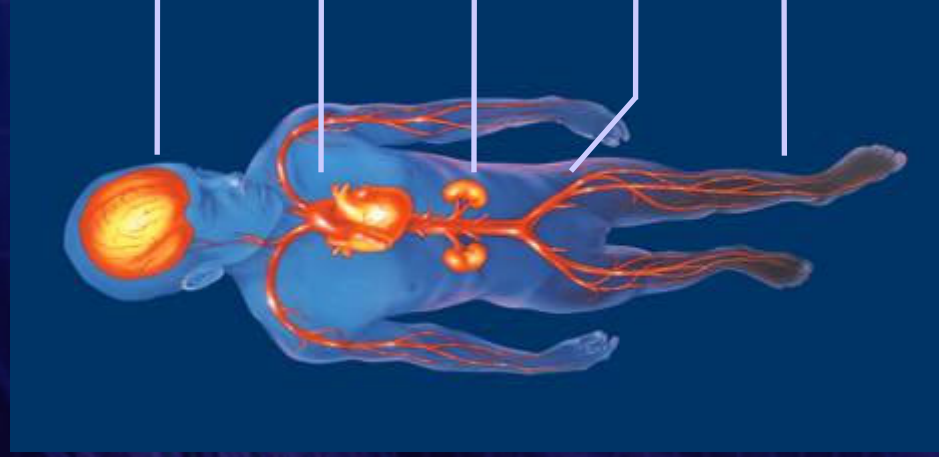


“An aspirin a day will help prevent a heart attack if you have it for lunch instead of a cheeseburger.”

Anti-platelet Agents - Measuring Effectiveness

Huyen Tran, MBBS, Master Clin Epi, FRACP, FRCPA
Clinical Haematology Unit,
Monash Medical Centre,
Australian Centre for Blood Diseases,
Melbourne
Australia

Atherothrombosis Major Manifestations



Cerebrovascular disease (IS/TIA)

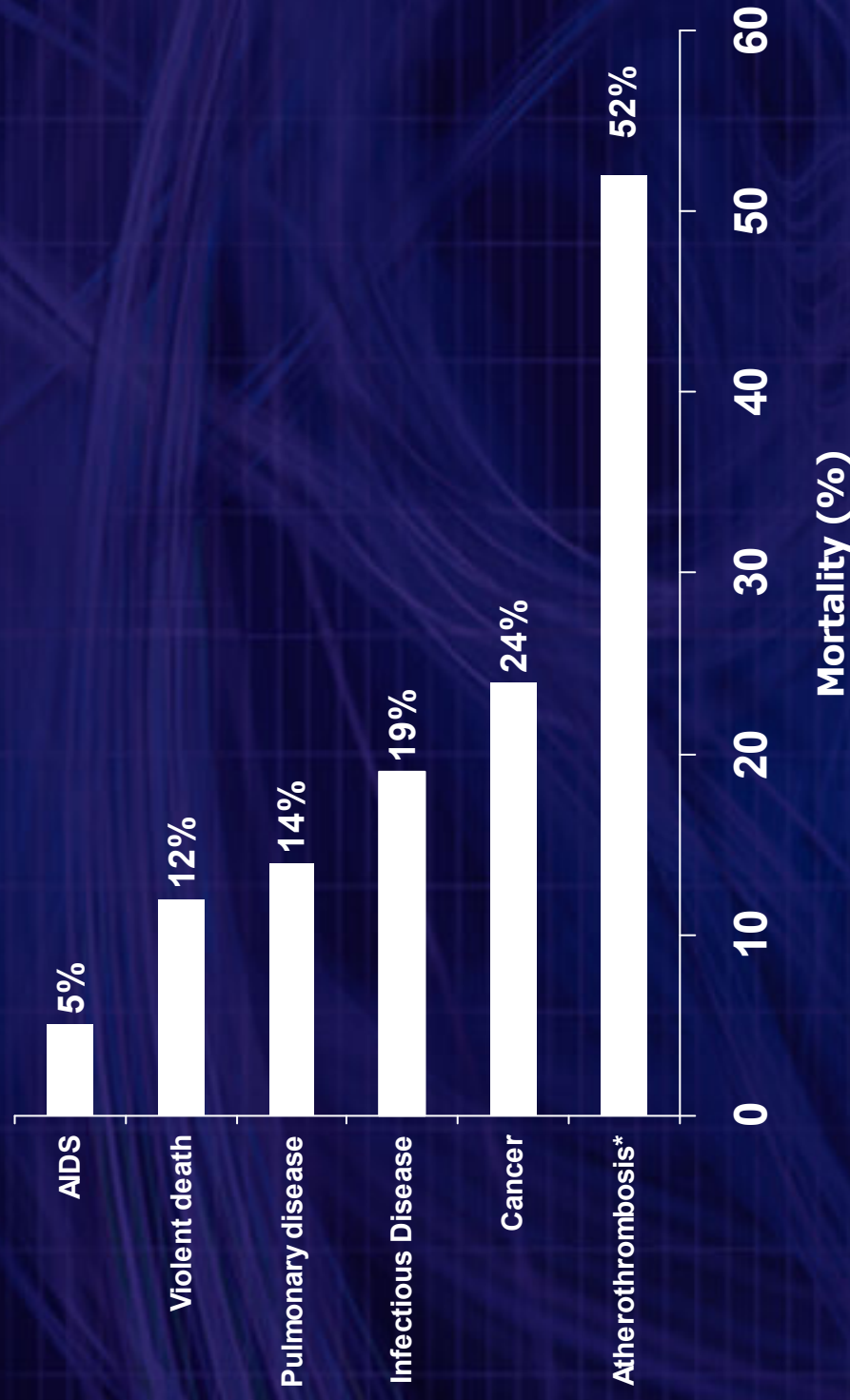
Coronary artery disease (CAD)

Renal artery stenosis

Visceral arterial disease

Peripheral arterial disease (PAD)

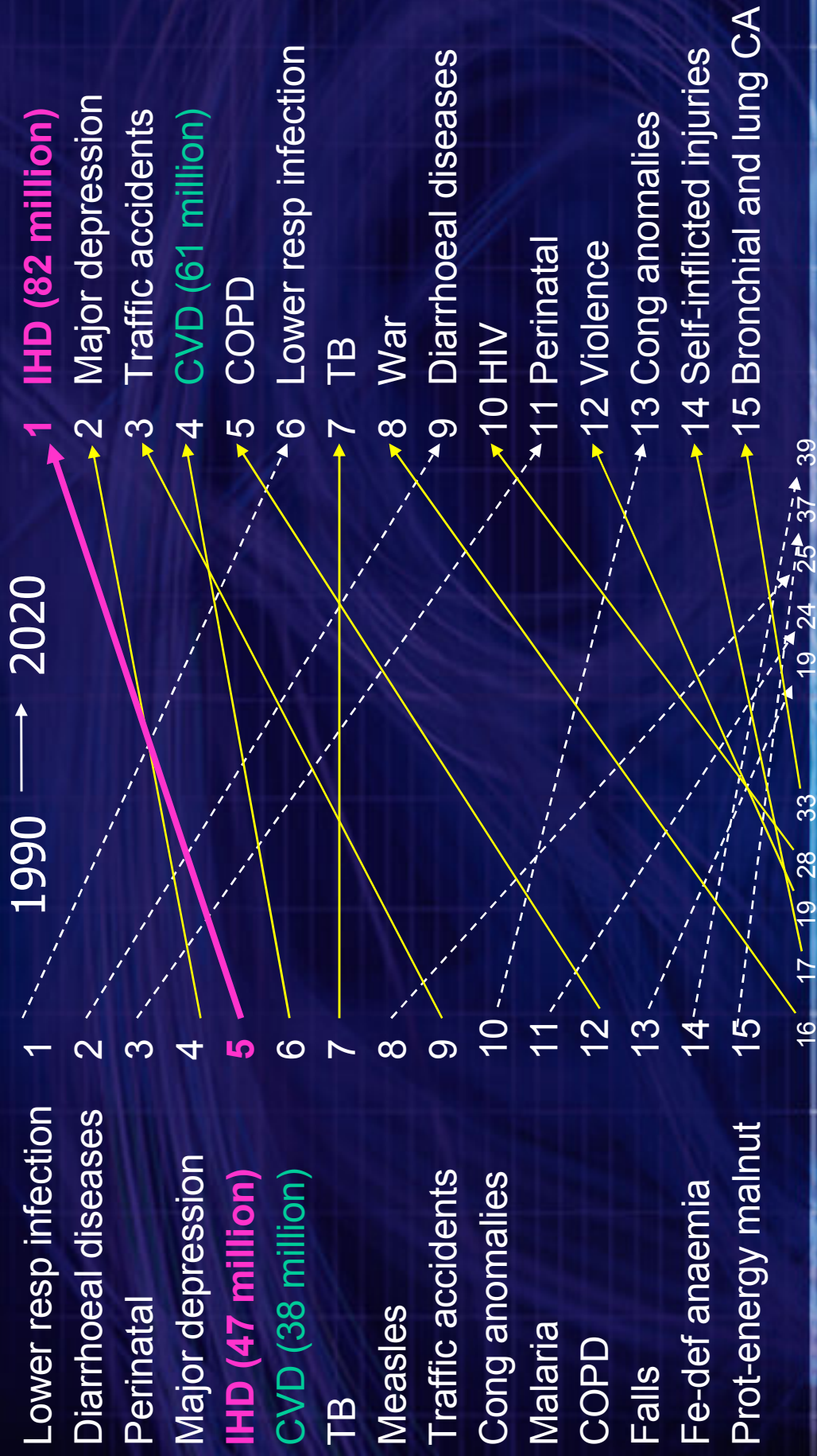
Atherothrombosis Leading Cause of Death Worldwide



The World Health Report 2001. Geneva: WHO; 2001.

Ischaemic Heart Disease & Cerebrovascular Disease

World Rank Order of Disease Burden (DALY)



Disease burden in Australia

- Australia's biggest killer
 - ~ 50,000 deaths/year.
- Most costly disease for the health system
 - ~12% of all health spending (\$14 billion/yr)
 - Aspirin – 5th DDD/1000 pop/day
 - Clopidogrel - 3rd among top 10 drug cost (\$179,983,732)

Antiplatelet Clinical Trial Program Covers All Manifestations of Atherothrombosis

1 • Cerebrovascular

Stroke
TIA

CHARISMA
CAPRIE
ESPS-2
MATCH
ESPRIT
ACTIVE
CARESS

2 • Cardiovascular

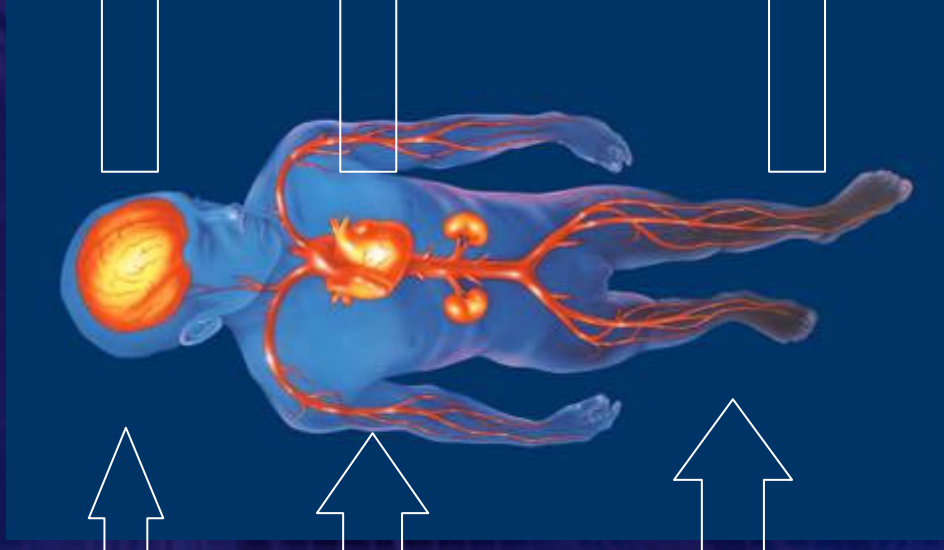
Acute MI
UA
Prior MI
PCI/stenting
Atrial fibrillation

CHARISMA
CAPRIE
ACTIVE
COMMIT
CLARITY
CURE
CLASSICS
CREDO

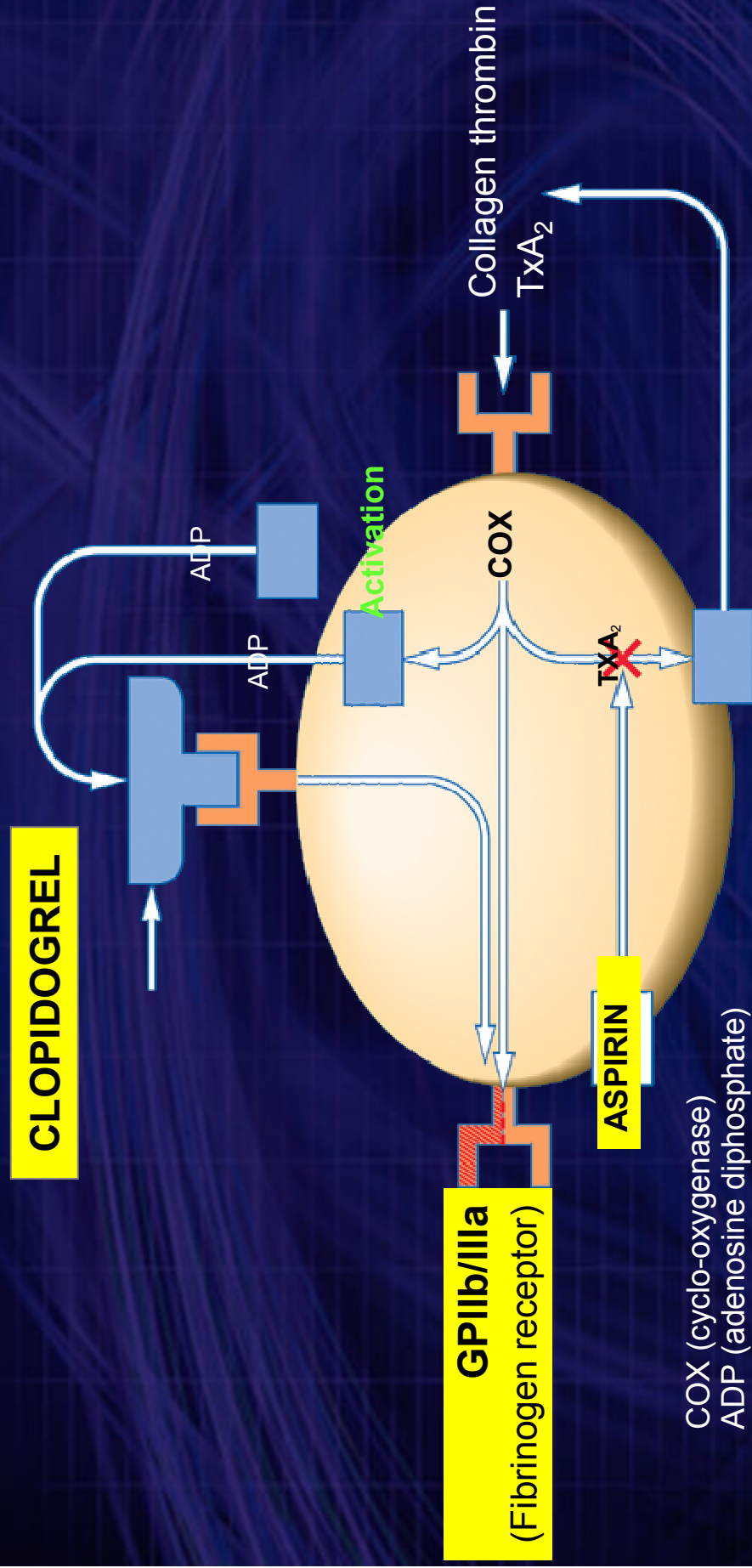
3 • Peripheral arterial

Intermittent
claudication
Peripheral
vascular
intervention

CHARISMA
CAPRIE
CASPAR



Mode of Action of Aspirin Clopidogrel and Iib/IIIa antagonist



COX (cyclo-oxygenase)
ADP (adenosine diphosphate)
TXA₂ (thromboxane A₂)
Jarvis B, Simpson K. *Drugs* 2000; 60: 347-77.