

Curriculum Vitae

Nama : Prof. Dr. dr H. Djanggan Sargowo SpPD,SpJP(K), FIHA., FACC.

Tempat/Tgl lahir : Sragen, 21 September 1947

Alamat : Wilis Indah E-10 Malang, Telp. 0341-552395

Pendidikan :

1. Lulus Dokter dari UGM, tahun 1974
2. Lulus Cardiologist dari Univ. Indonesia, tahun 1983
3. Lulus Internist dari Univ. Airlangga, tahun 1986
4. Lulus Doktor, Univ. Airlangga, tahun 1996
5. Advanced Cardiology Course, Univ. Hongkong, tahun 1984
6. Senior Visiting Program, Institut Jantung Negara, Kualalumpur, 1996
7. Fellow American College of Cardiology (FACC), September 2006.
8. Fellow Collage Asia Pacific Society of Cardiology (FCAPC), Desember 2007
9. Fellow European Sociaty of Cardiology (FESC), 2008
10. Fellow Asean Collage of Cardiology (FASCC), 2008

Jabatan :

1. Direktur Program Pascasarjana Universitas Brawijaya
2. Ketua Ikatan Dokter Indonesia Cabang Malang Raya
3. Ketua PERKI Cabang Malang Raya
4. Ketua Kolegium Kardiovaskuler Indonesia

PENYAKIT JANTUNG KORONER



Prof. Dr. dr. Djanggan Sargowo, Sp.PD, Sp.JP(K)

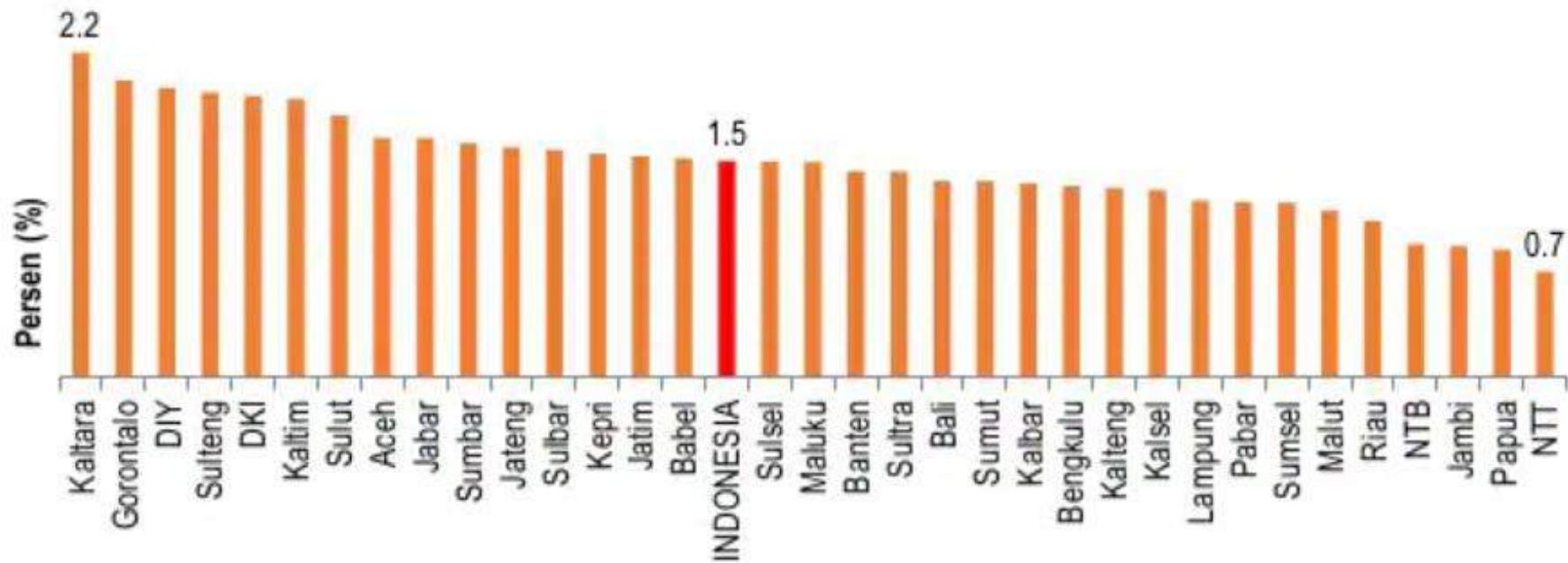
Malang, Desember 2022

SURVEI KESEHATAN

idwabenry_02112018

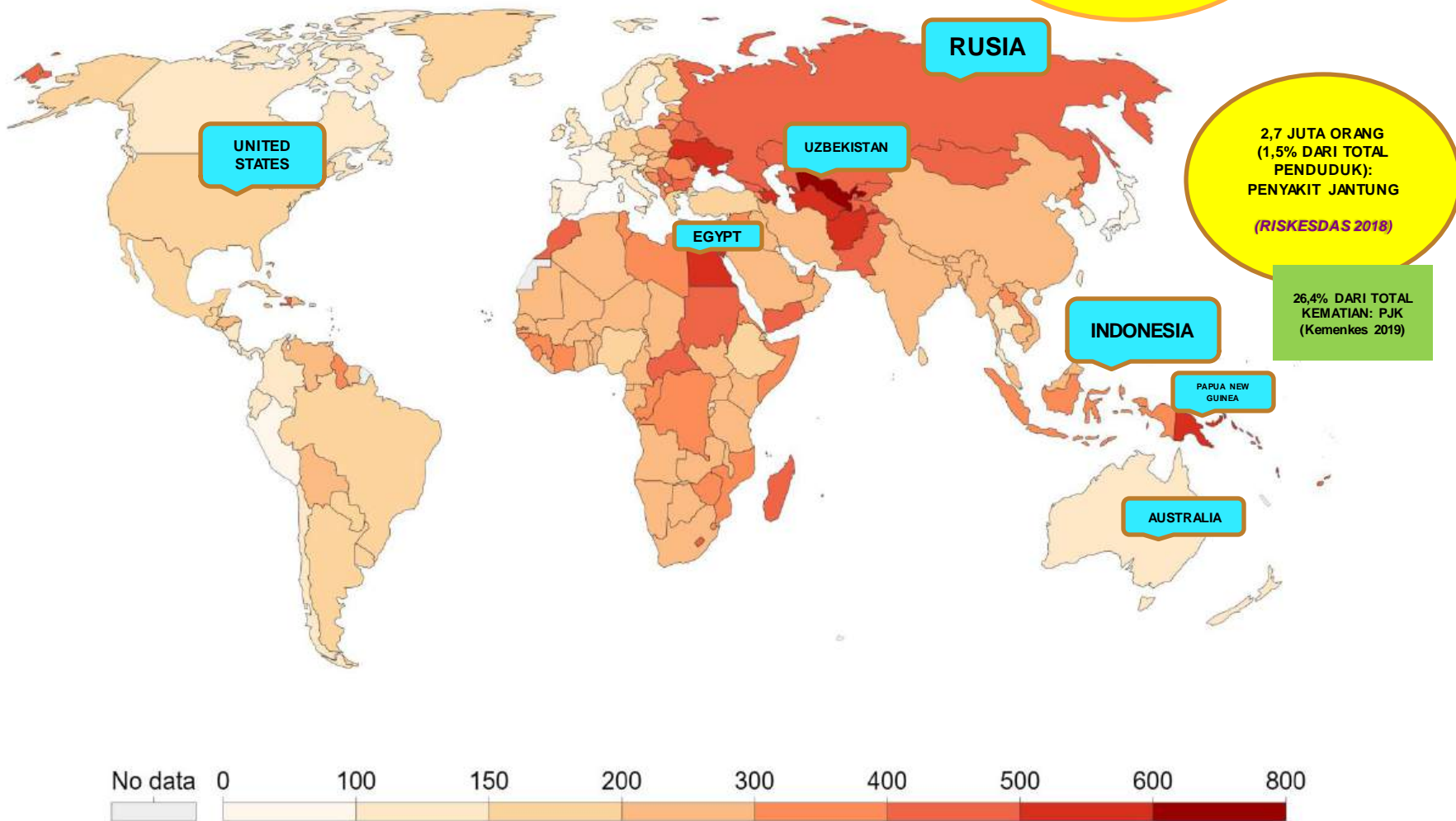
RISKESDAS
2018

PREVALENSI PENYAKIT JANTUNG (DIAGNOSIS DOKTER) PADA PENDUDUK SEMUA UMUR MENURUT PROVINSI, 2018



Death rate from cardiovascular disease, 2017

The annual number of deaths from cardiovascular diseases per 100,000 people.

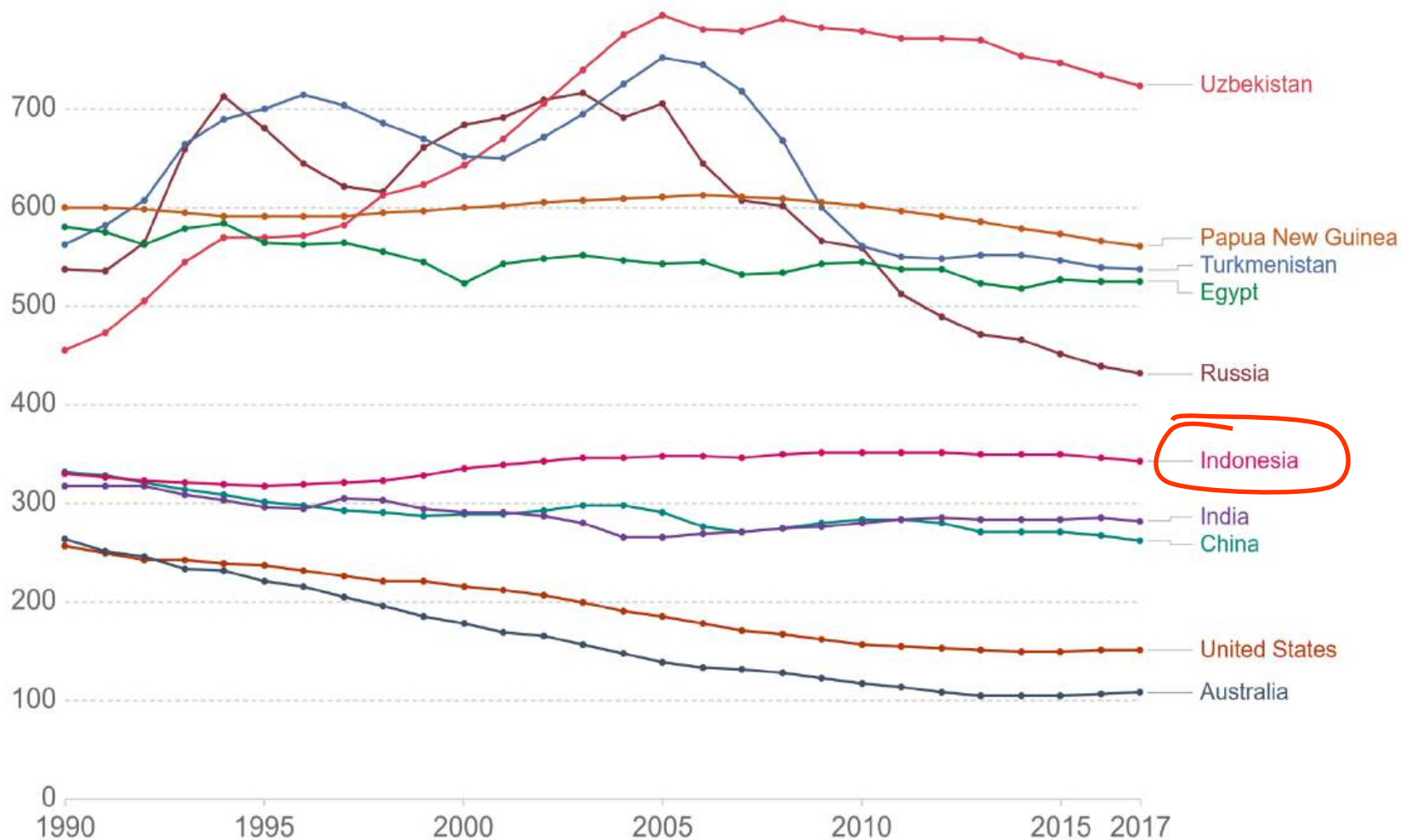


Source: IHME, Global Burden of Disease (GBD)

Note: To allow comparisons between countries and over time this metric is age-standardized.

Death rate from cardiovascular disease, 1990 to 2017

The annual number of deaths from cardiovascular diseases per 100,000 people.

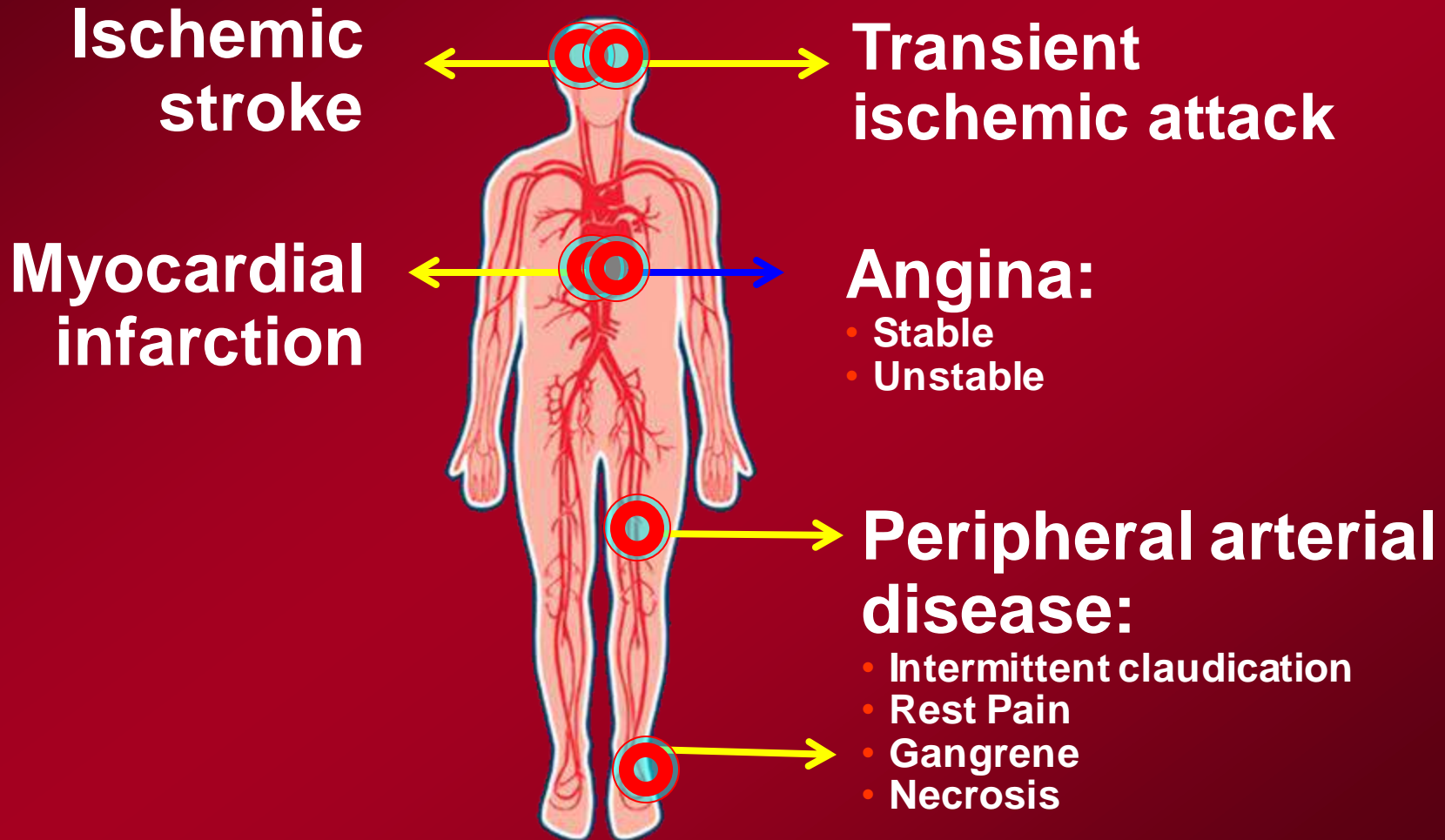


Source: IHME, Global Burden of Disease (GBD)

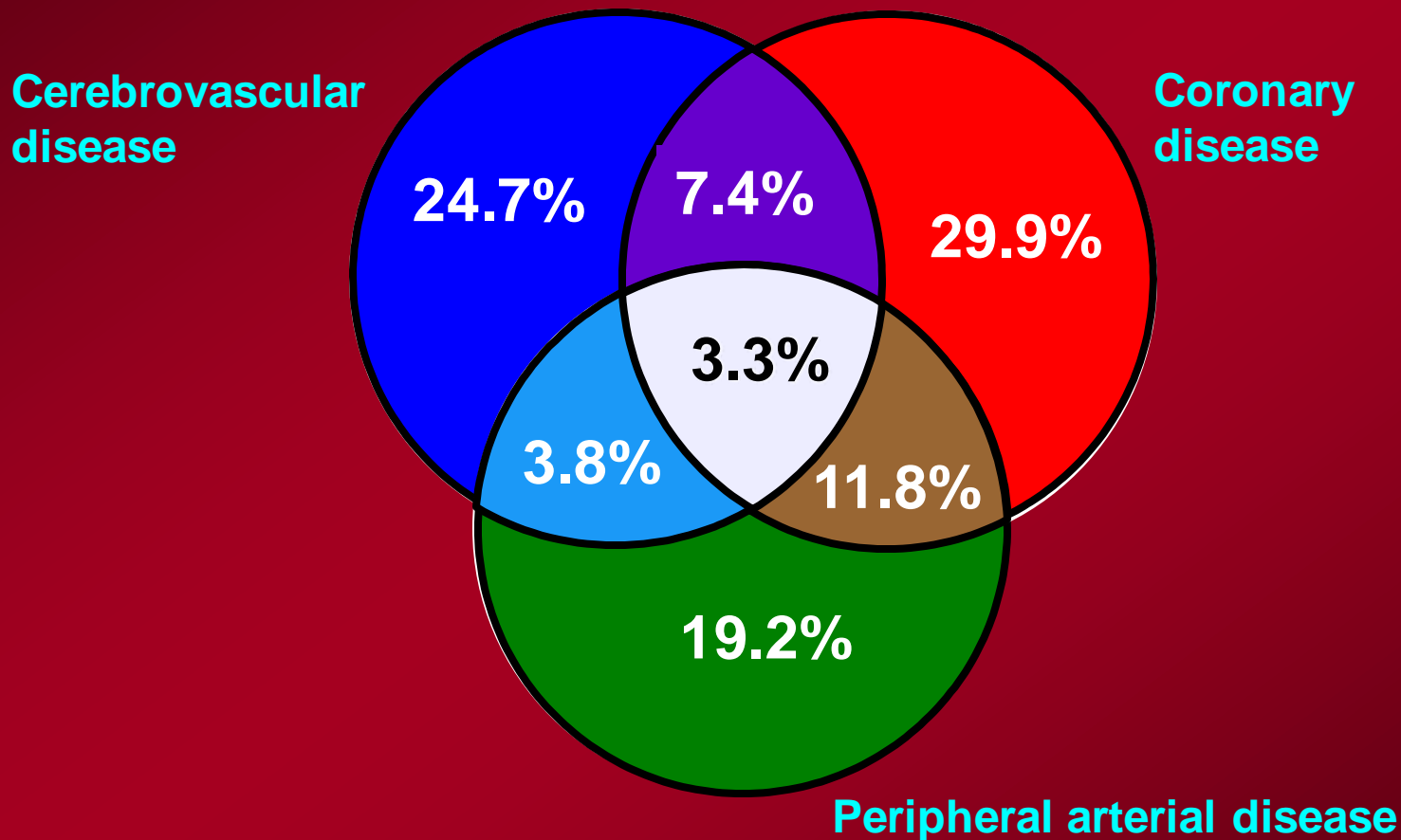
Note: To allow comparisons between countries and over time this metric is age-standardized.

OurWorldInData.org/causes-of-death • CC BY

MAJOR CLINICAL MANIFESTATIONS OF ATHEROTHROMBOSIS

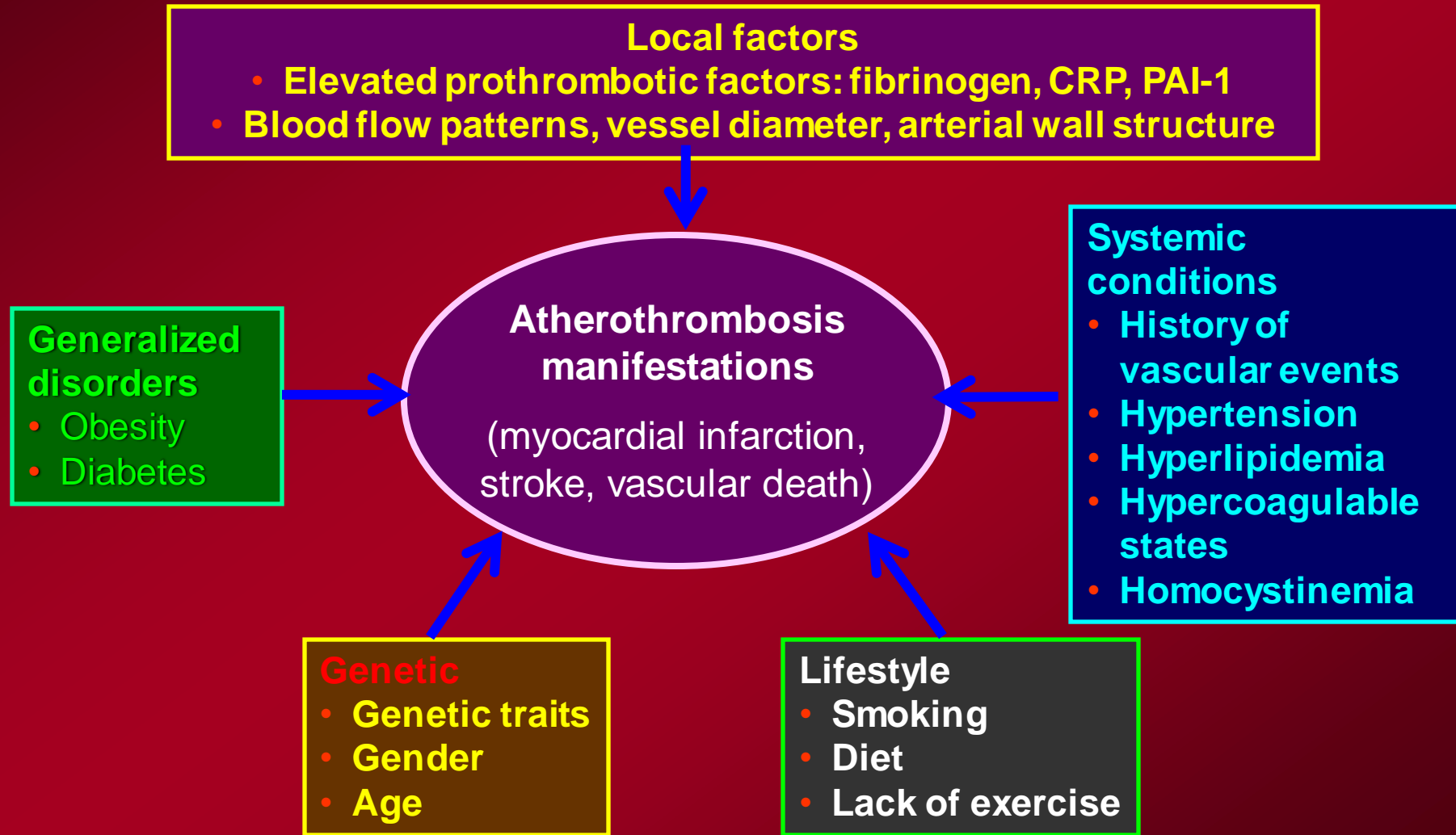


ATHEROTHROMBOSIS IS COMMONLY FOUND IN MORE THAN ONE ARTERIAL BED IN AN INDIVIDUAL PATIENT*



* Data from CAPRIE study (n=19,185)
Coccheri S. *Eur Heart J* 1998; 19(suppl): P1268.

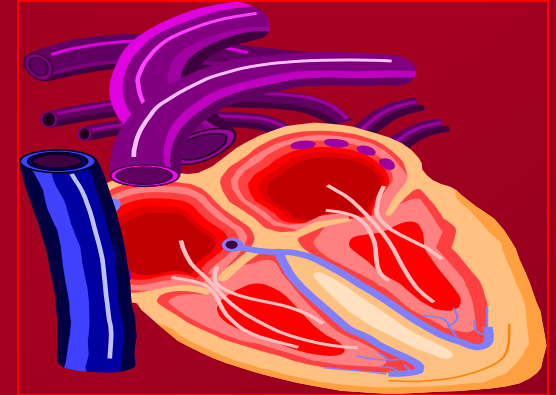
IDENTIFYING THOSE AT RISK OF ATHEROTHROMBOSIS



KONSEP DAN TEORI ATEROSKLEROSIS



Konsep



Teori

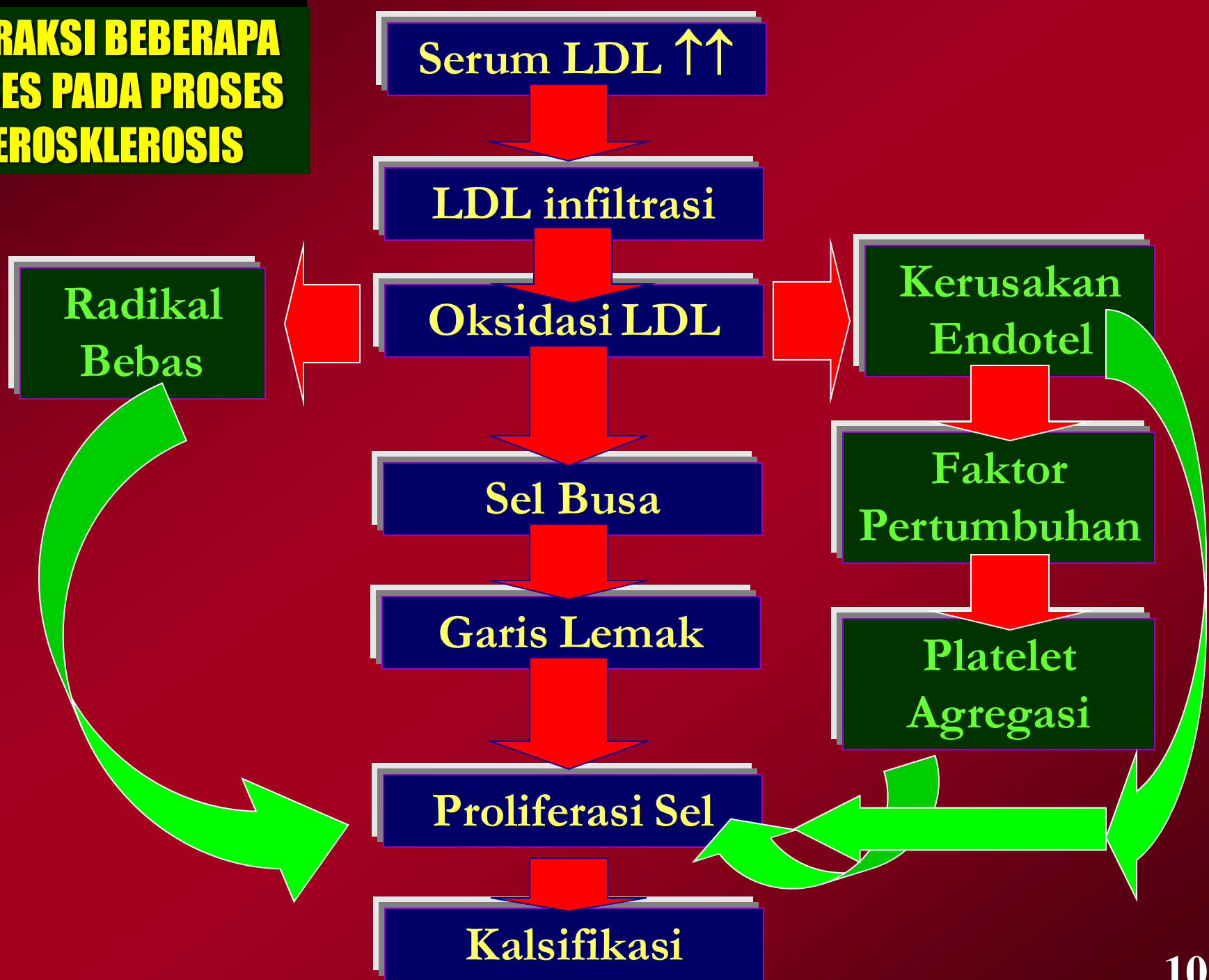
Penyakit

- ↗ Infiltrasi lipid
- ↗ Kerusakan endotel
- ↗ Radikal bebas
- ↗ Immunologi

Inflamasi

Aterosklerosis /
PJK

INTERAKSI BEBERAPA PROSES PADA PROSES ATEROSKLEROSIS



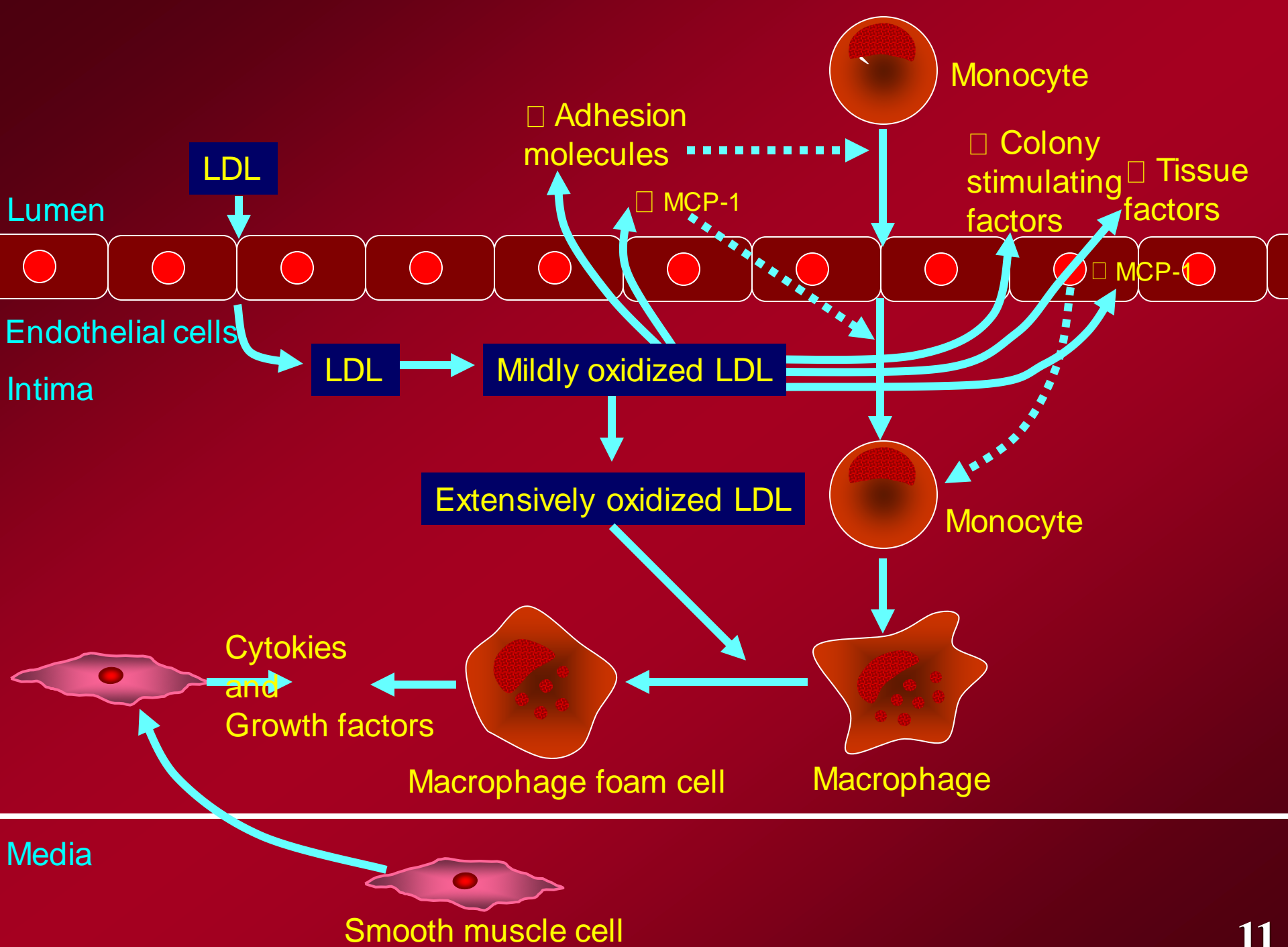
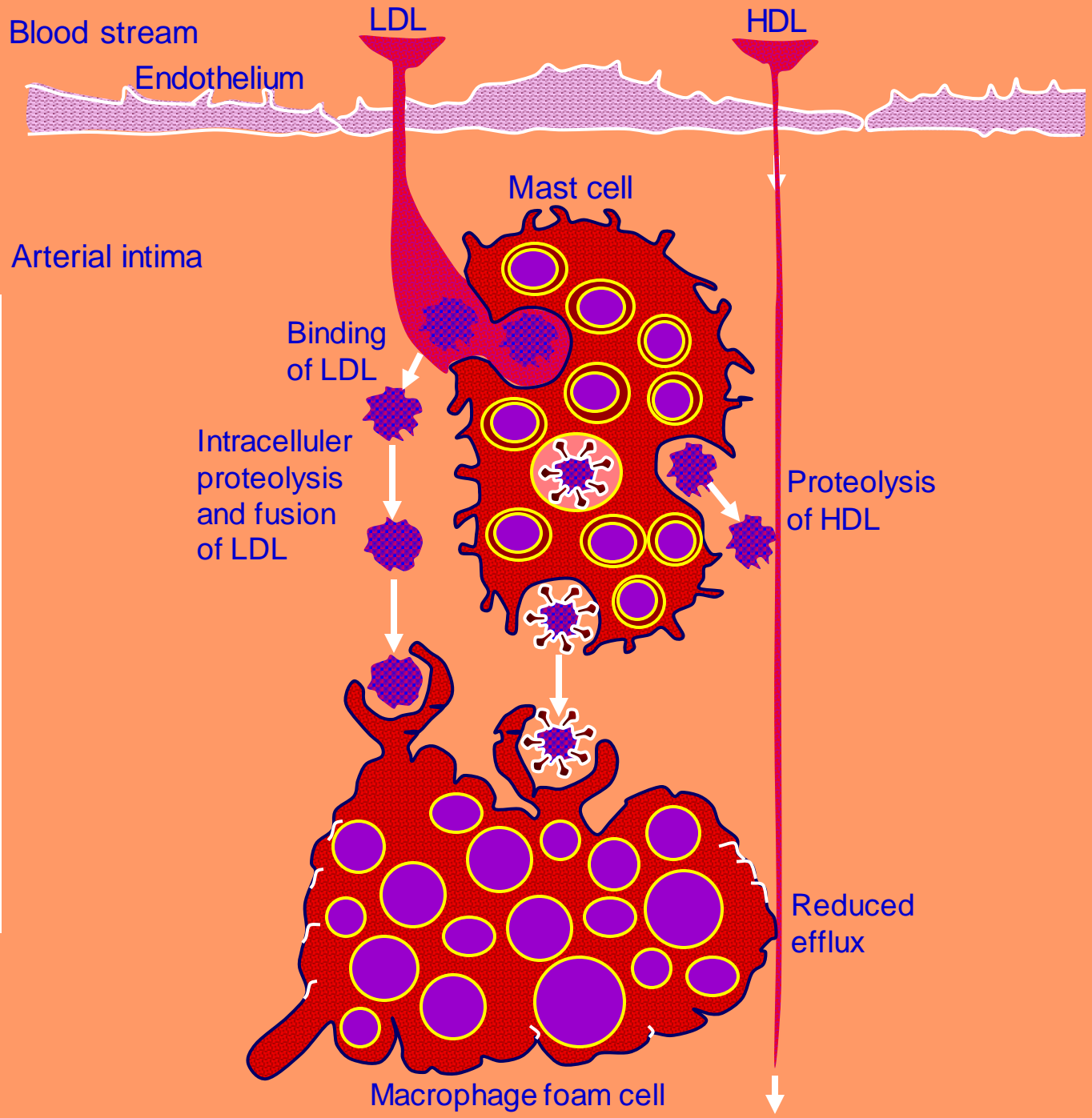
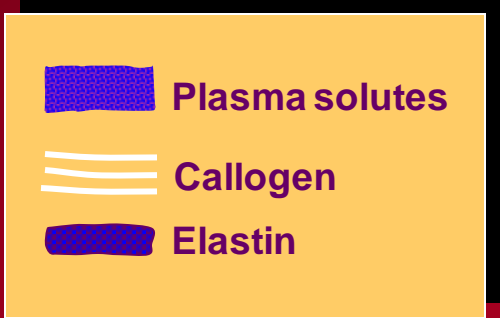
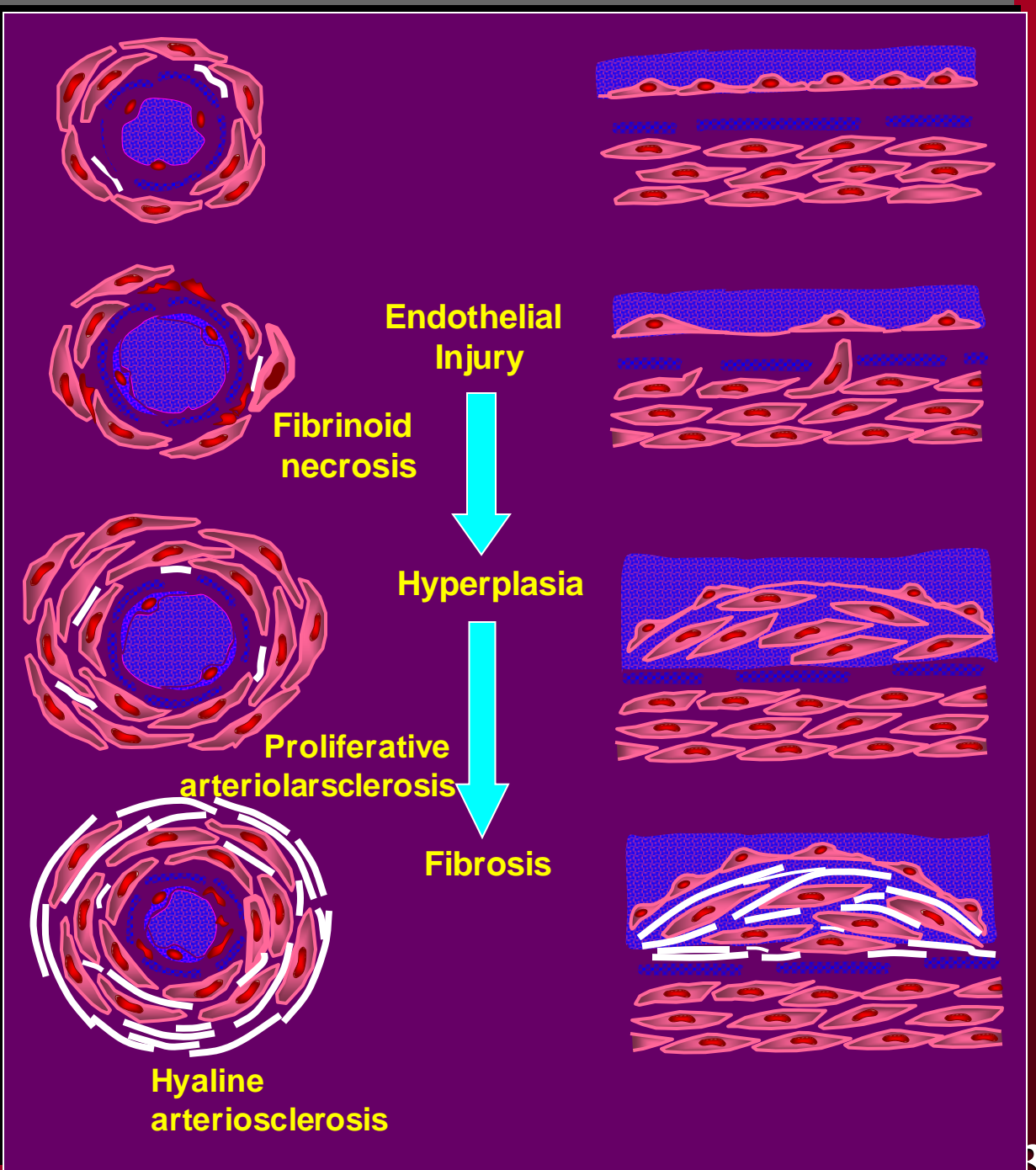


Figure :
Proposed Dual
Action of
Exocytosed Mast
Cell Granules
(The Granule
Remnants)
of
Lipoprotein
Metabolism in
The Arterial
Intima

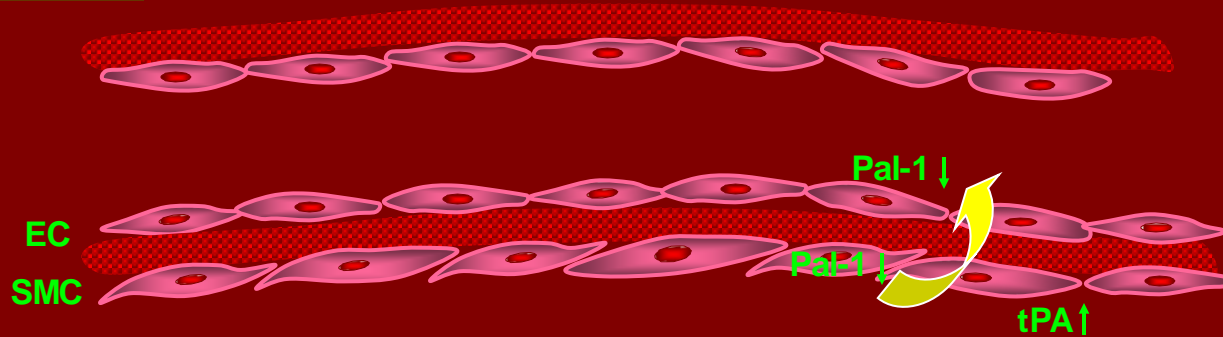




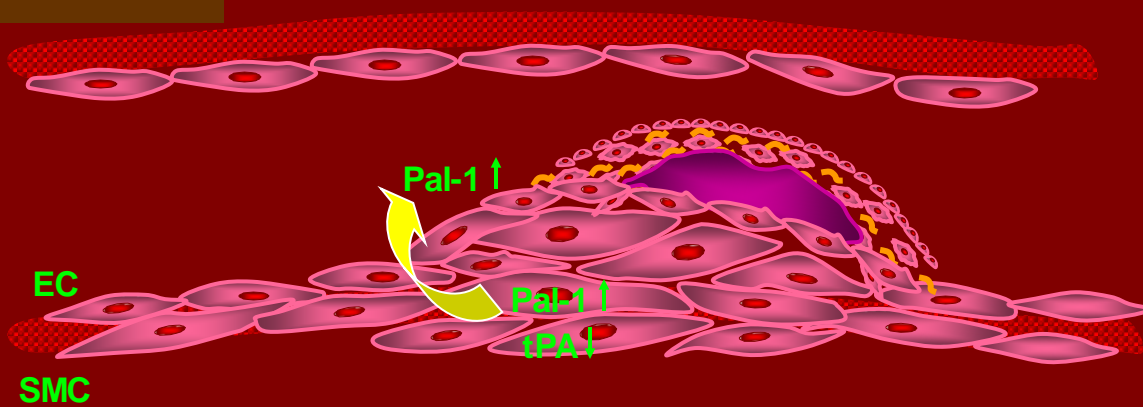
- Plasma solutes
- Callogen
- Elastin

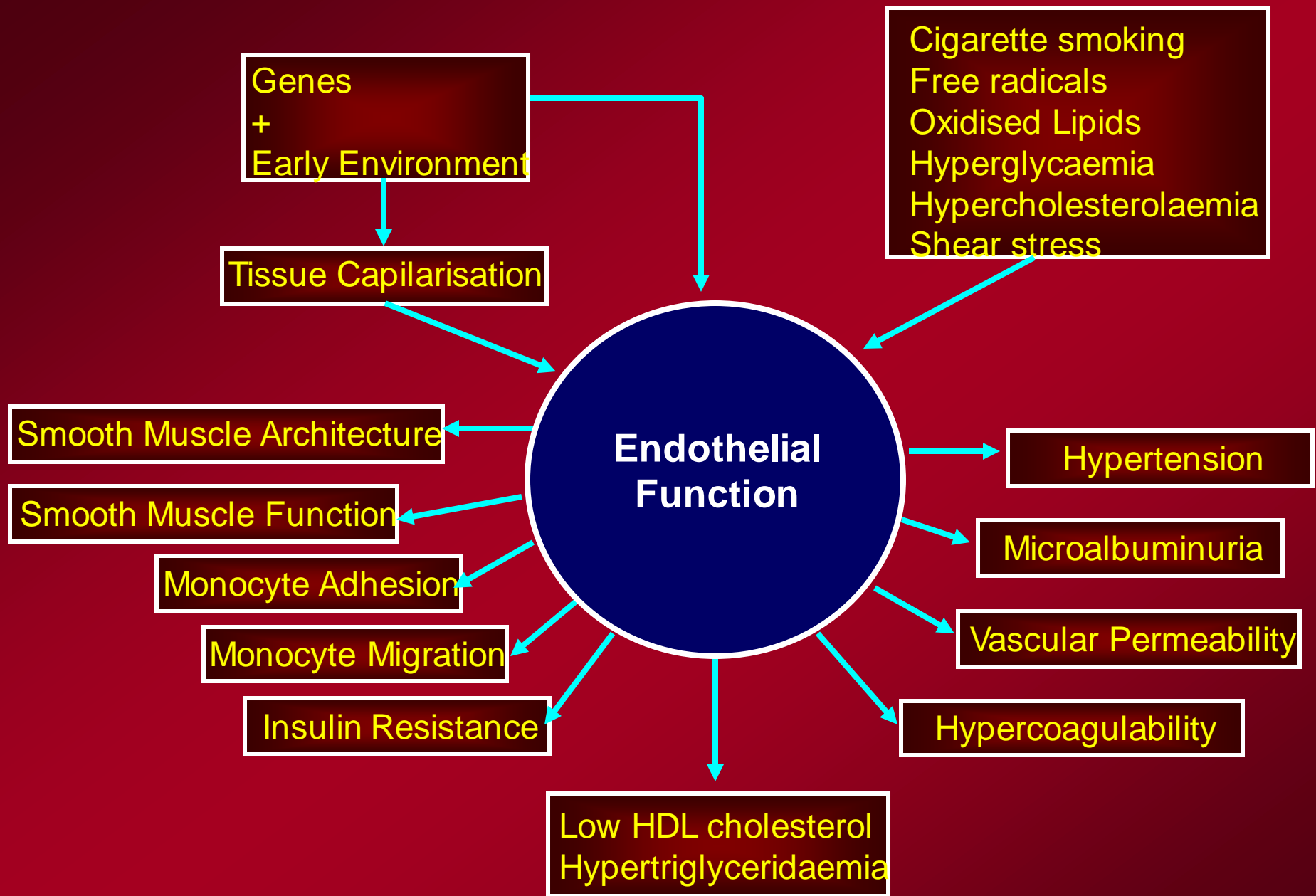


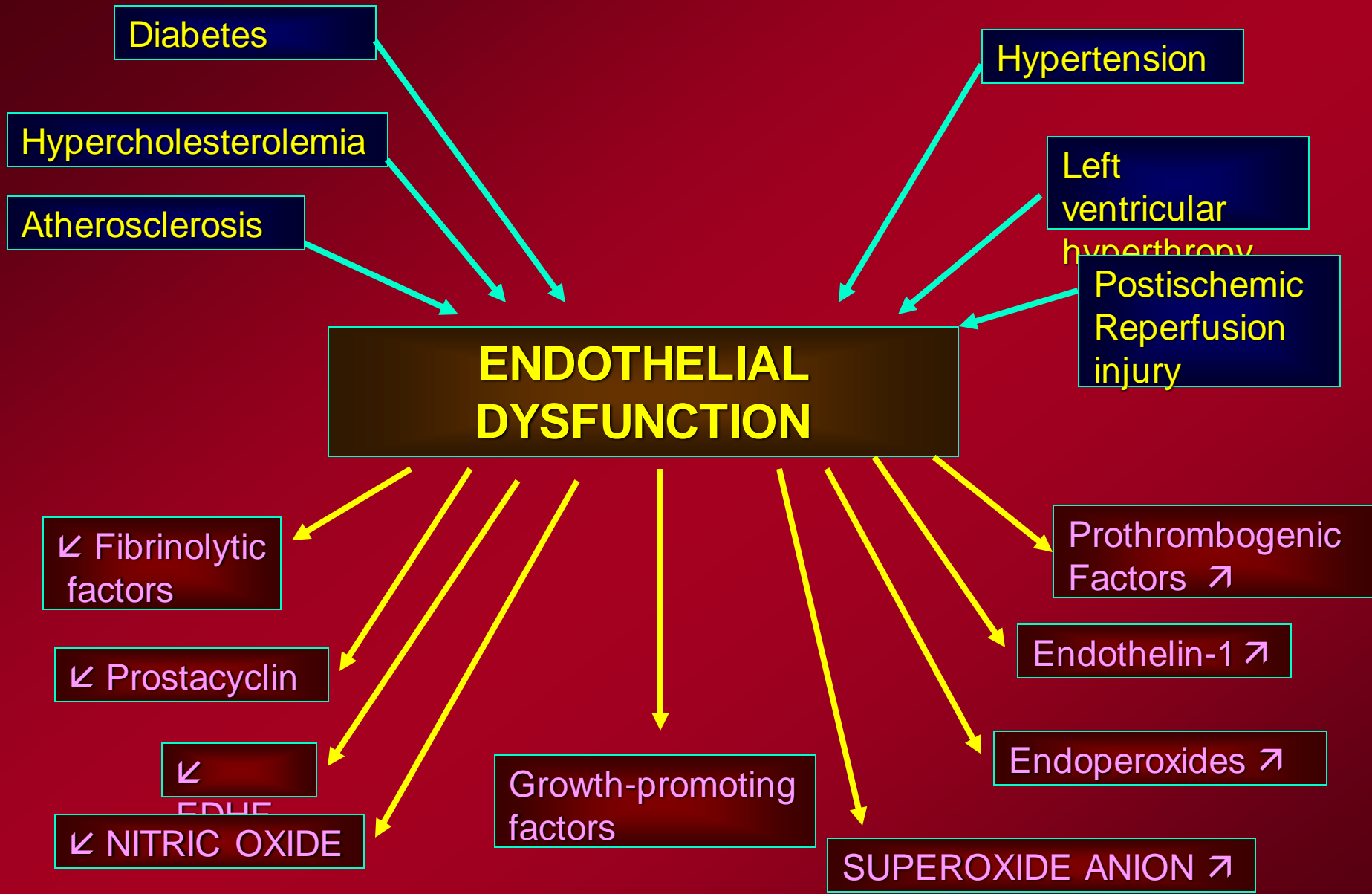
Normal vessel



Atherosclerotic plaque

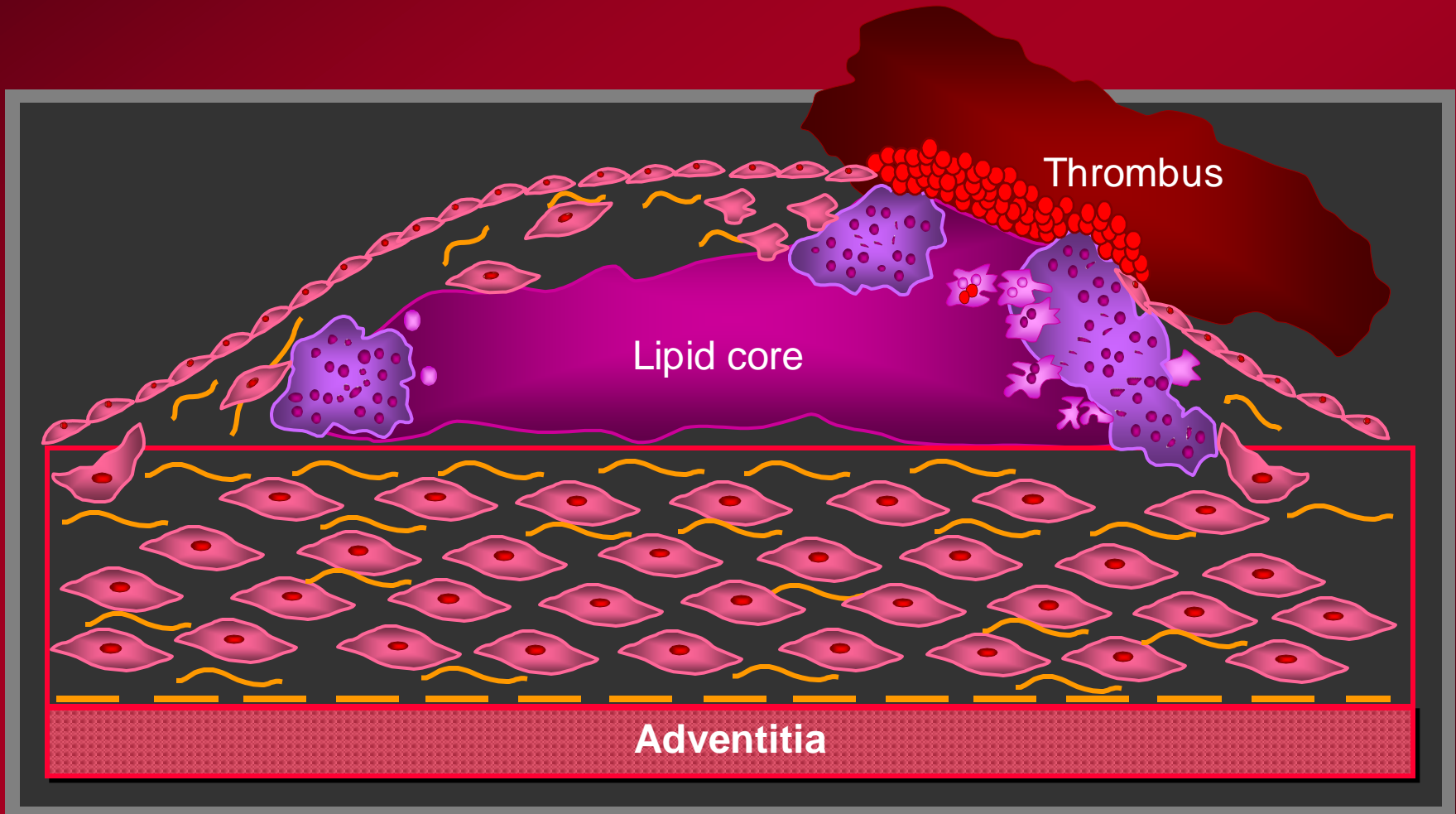






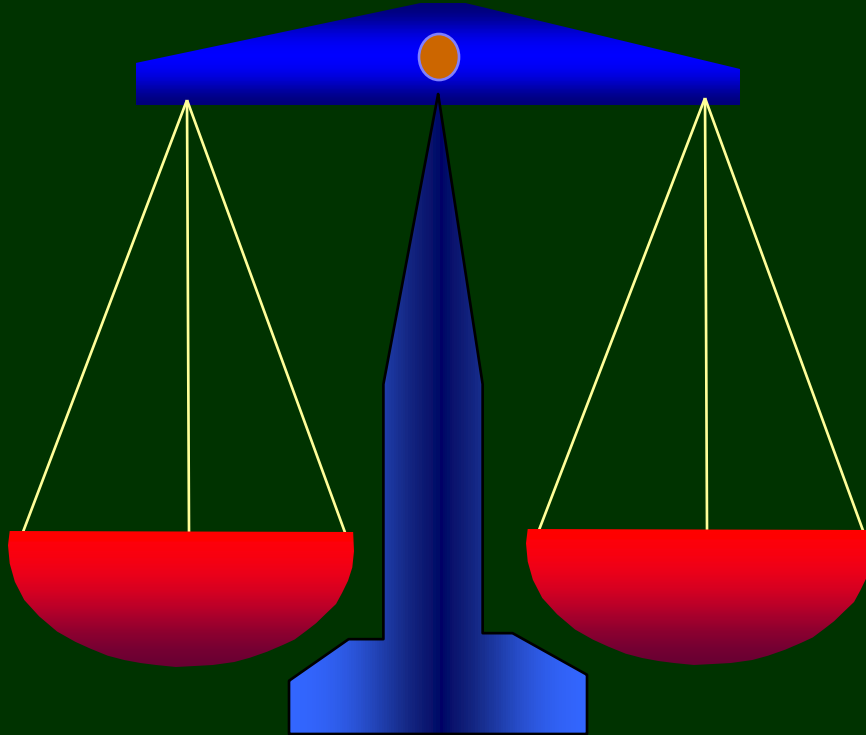
UNSTABLE CORONARY ARTERY DISEASE (II)

Thrombus forms and extends into the lumen



CONSTRICTOR

DILATOR

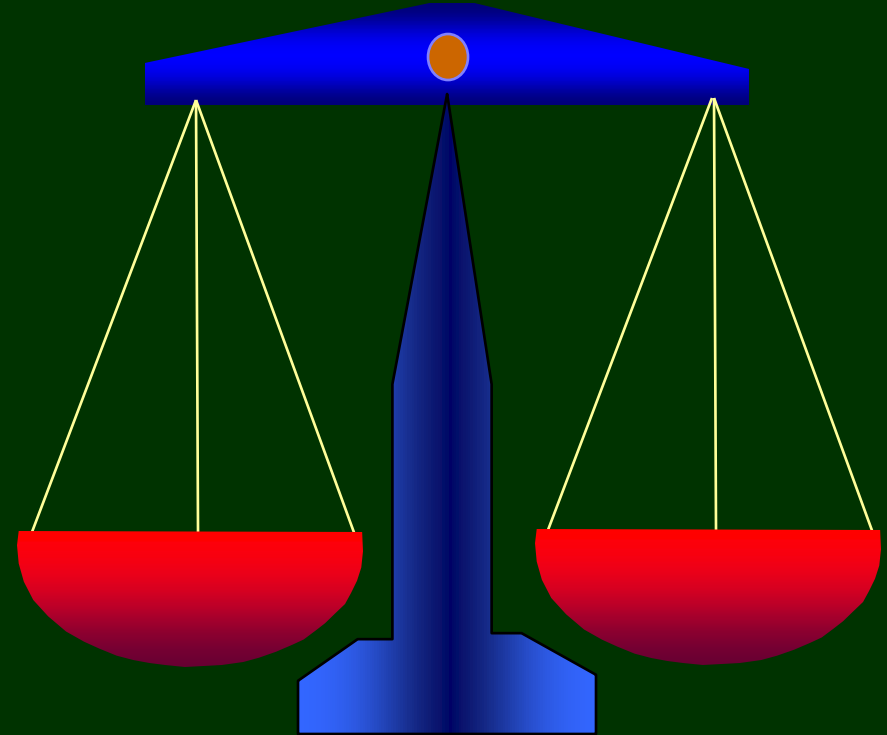


Endothelium-1
Angiotensin-II
Vasconstrictor
Prostaglandins

Prostacyclin
Nitric oxide
Other "EDRF-Like"
Substances

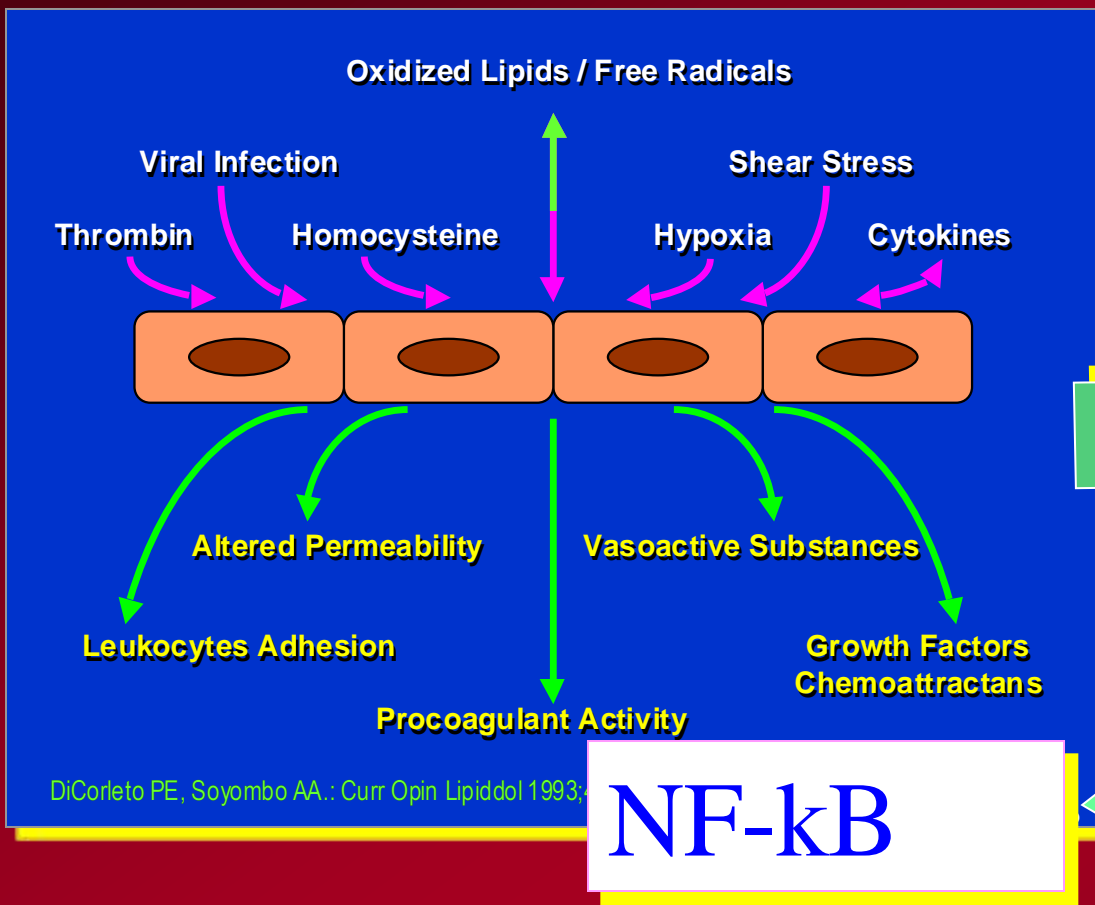
PRO

ANTI

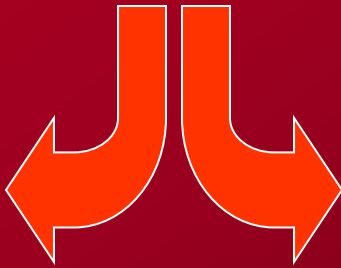


Platelet-activating
factor
Tissue factor
Von willebrand factor
Plasminogen
activator
Inhibitor-1
Other Coagulation
factors

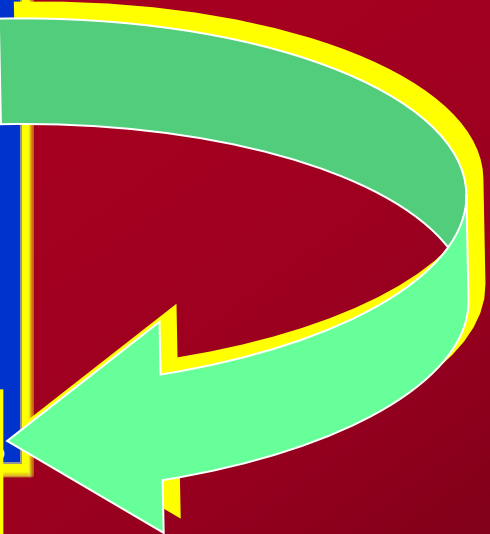
Prostacyclin
Thrombomodulin
Ecto-ADPase
Tissue
Plasminogen
Activator
Urokinase
Heparin-Like
Molecules

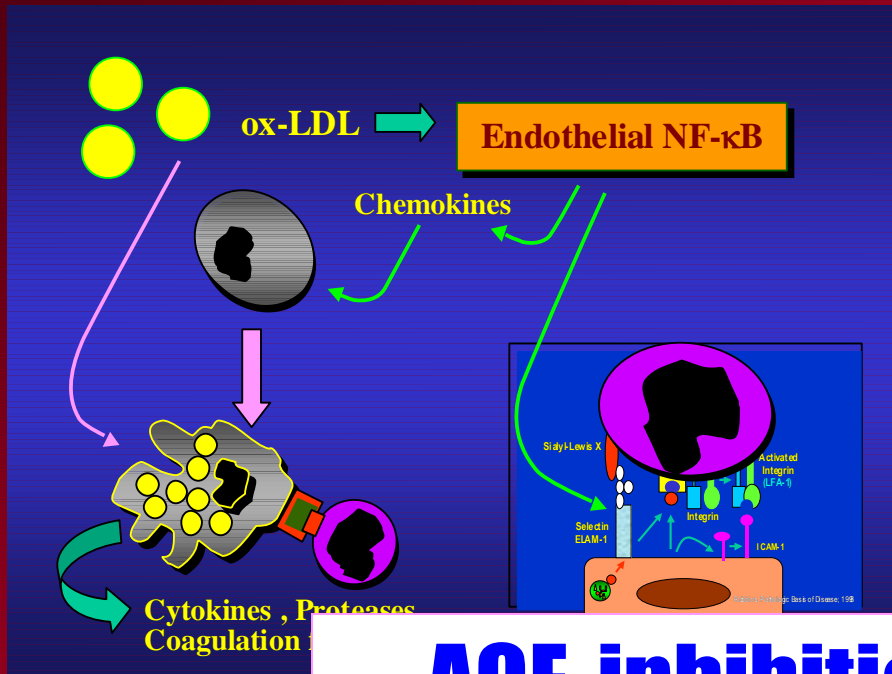


- Survival signals**
- A20, A1
 - Bcl-2, Bcl-xL
 - Caspase inhibitors
 - Hemoxygenase 1
 - MnSOD

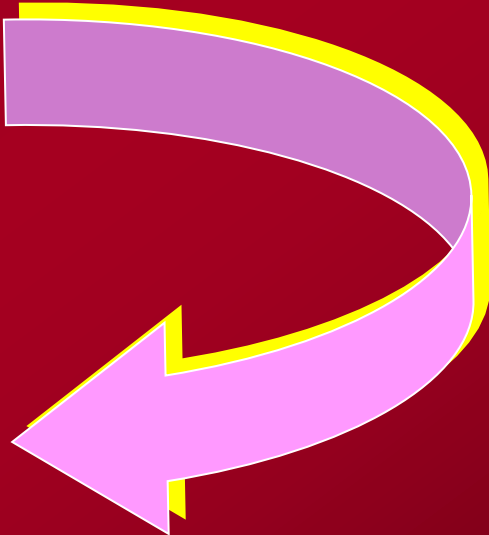


- Proinflammatory signals**
- Cytokines
 - Adhesion molecules
 - Chemokines
 - Coagulation factors





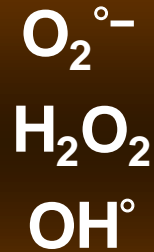
ACE-inhibitor



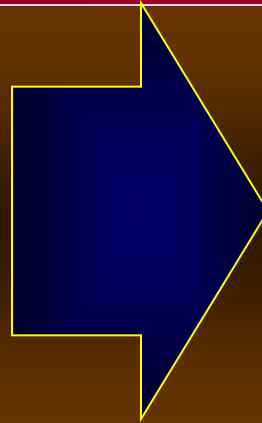
Hernandez-Presa et al : Angiotensin-converting enzyme inhibition (ACE-inhibitor) prevents arterial NF-κB activation, MCP-1 expression, and macrophage infiltration in a rabbit model of early accelerated atherosclerosis. *Circulation* 1997 ;95:1532-1541

(Lawrence GS, Cardiology update and interventional cardiology)

REDOX REGULATION OF ENDOTHELIAL DYSFUNCTION & ACTIVATION



Oxidation

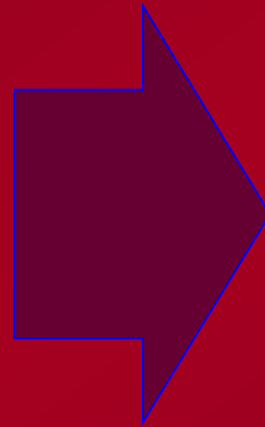


↓ NO Activity
↓ G-Protein Function
↑ Protein Kinase C

Endothelial Dysfunction

ENDOTHELIAL DYSFUNCTION AND ACUTE CORONARY SYNDROMES

- Vasoconstriction
- Platelet Aggregation
- SMC Proliferation
- Leukocyte Adhesion
- LDL Oxidation
- Activation of MMPs



Endothelial Dysfunction

Plaque Rupture

Thrombosis

Matrix Remodeling



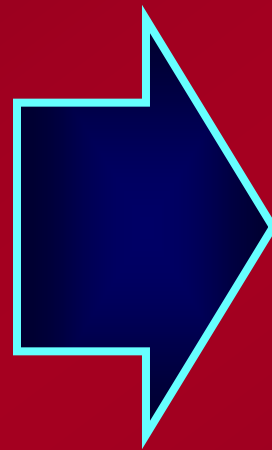
ENDOTHELIAL DYSFUNCTION AND ACUTE CORONARY SYNDROMES

Vasospasm

Plaque Rupture

Thrombosis

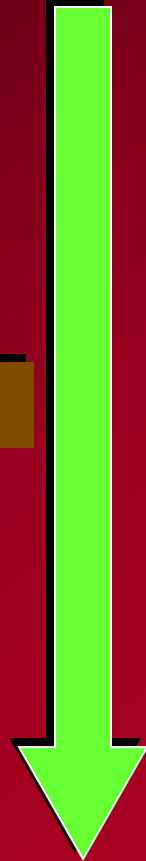
Matrix Remodeling



ACUTE
CORONARY
SYNDROMES



Early atherogenesis



Progression

Late atherogenesis



Acute coronary syndrome

1. Vaskuler injury



2. Monocyte recruitment

Macrophage formation

Lysis



3. Lipid deposition

4. Platelet and growth factor

5. SMCs

6. Synthesis of extracellular matrix



7. Plaque disruption

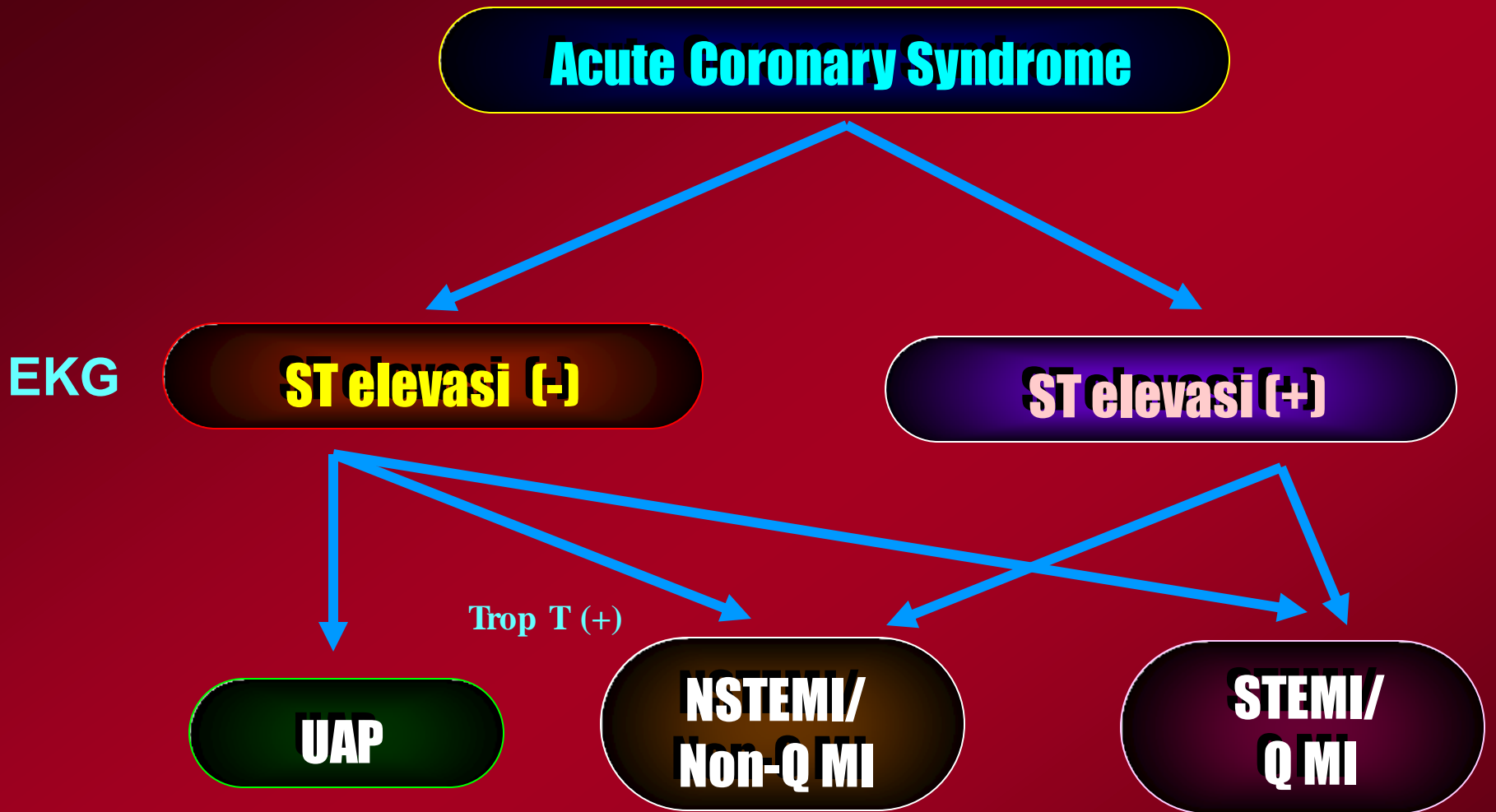
8. Trombosis

Monocyte recruitment

Macrophage formation

Lysis





UAP : Unstable angina pectoris, Non-Q MI: Non Q wave myocardial infarction

NSTEMI : Non ST-elevation myocardial infarction

STEMI : ST-elevation myocardial infarction

Q MI : Q wave myocardial infarction