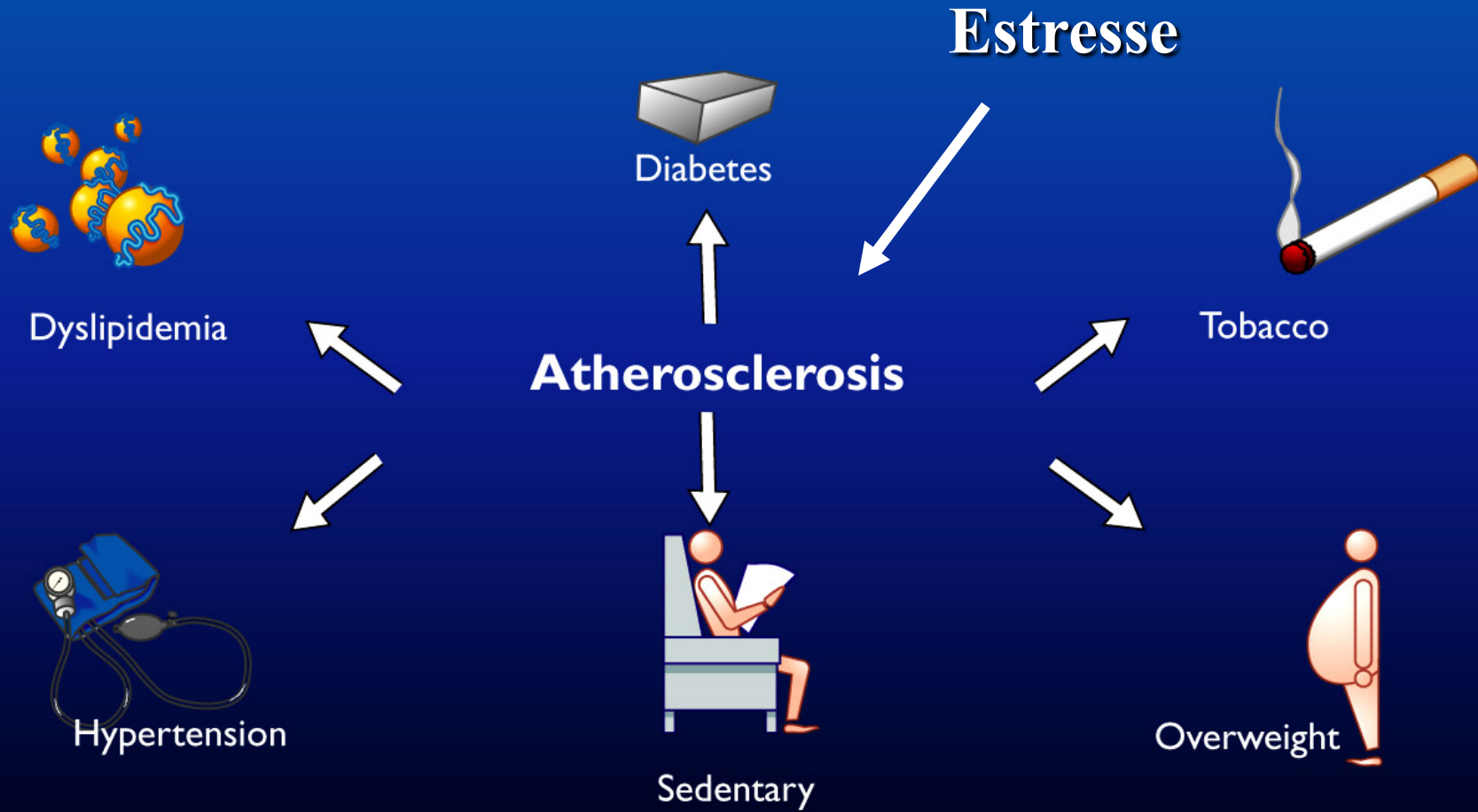
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Doença Arterial Coronária

Isquemia Miocárdica


- **Epidemiologia**
- **Fisiopatologia**
- **Aspectos clínicos**
- **Diagnóstico**
- **Prognóstico**
- **Terapêutica**

ATEROSCLEROSE DOENÇA MULTIFATORIAL



Fator Genético

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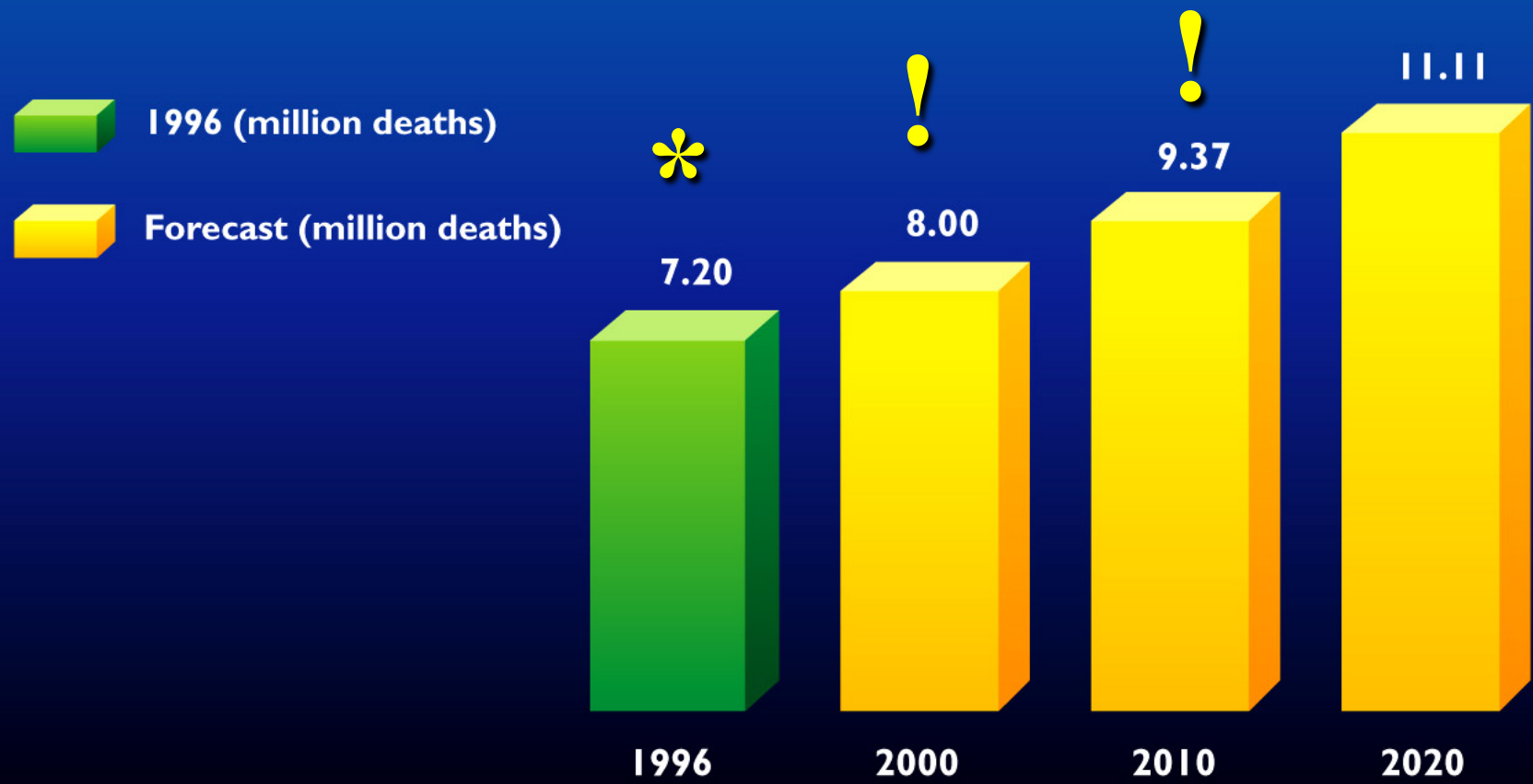
 The image cannot be displayed. Your computer may not have enough memory to open the image, or the image may have been corrupted. Restart your computer, and then open the file again. If the red x still appears, you may have to delete the image and then insert it again.


Mortalidade mundial - 1996

Coronary disease	7.2 x 10⁶
Cancer	6.3
Cerebrovascular disease	4.6
Acute lower respiratory tract infections	3.9
Tuberculosis	3.0
COPD (chronic obstructive pulmonary disease)	2.9
Diarrhea (including dysentery)	2.5
Malaria	2.1
AIDS	1.5
Hepatitis B	1.2

The image cannot be displayed. Your computer may not have enough memory to open the image, or the image may have been corrupted. Restart your computer, and then open the file again. If the red x still appears, you may have to delete the image and then insert it again.

MORTALIDADE POR DAC



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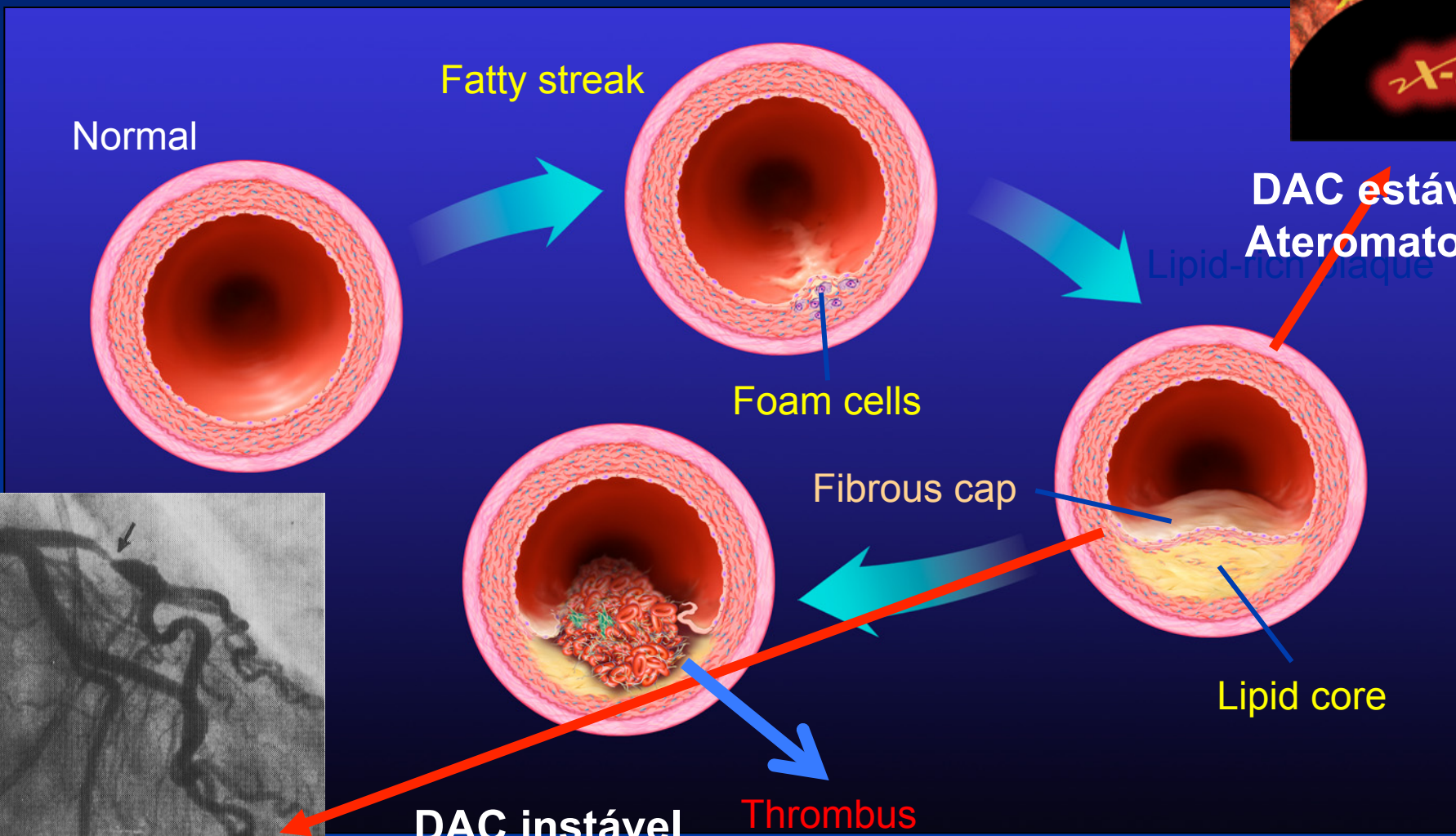
Doença Arterial Coronária

Isquemia Miocárdica

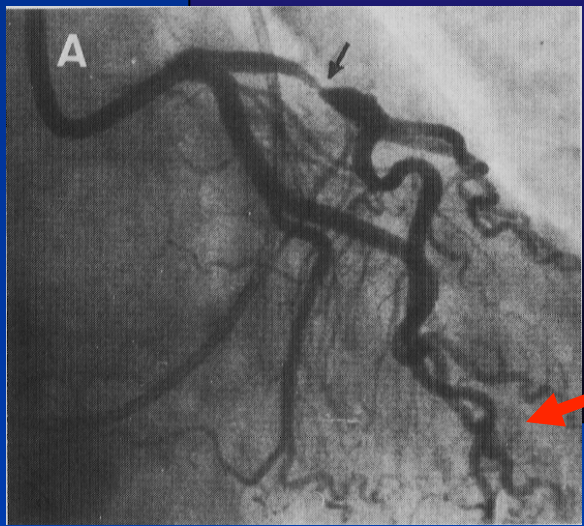
- Epidemiologia
- **Fisiopatologia**
- Aspectos clínicos
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The image cannot be displayed. Your computer may not have enough memory to open the image, or the image may have been corrupted. Restart your computer, and then open the file again. If the red x still appears, you may have to delete the image and then insert it again.

Development of Atherosclerotic Plaques



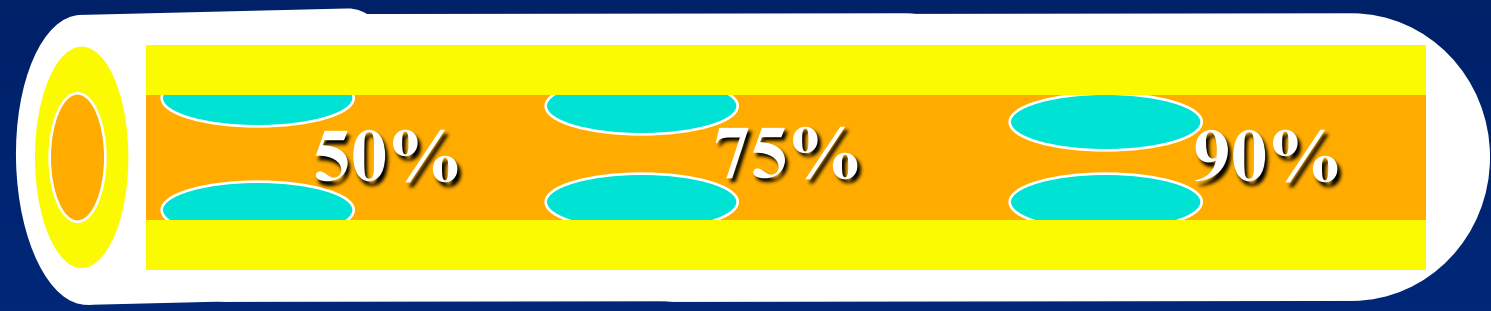
DAC estável
Ateromatose



DAC instável
Aterotrombose

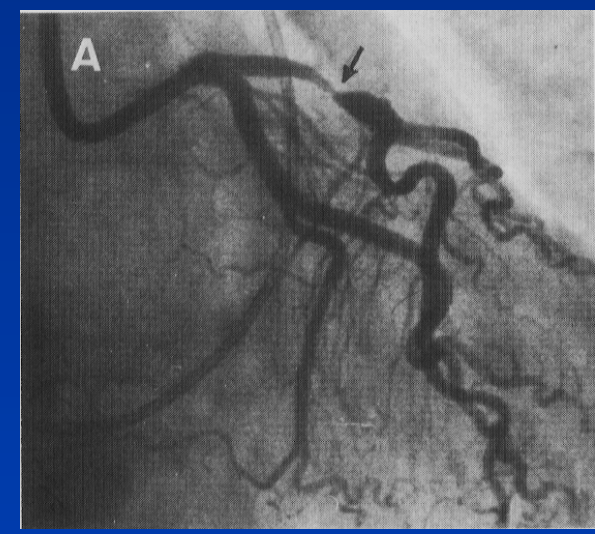
Thrombus

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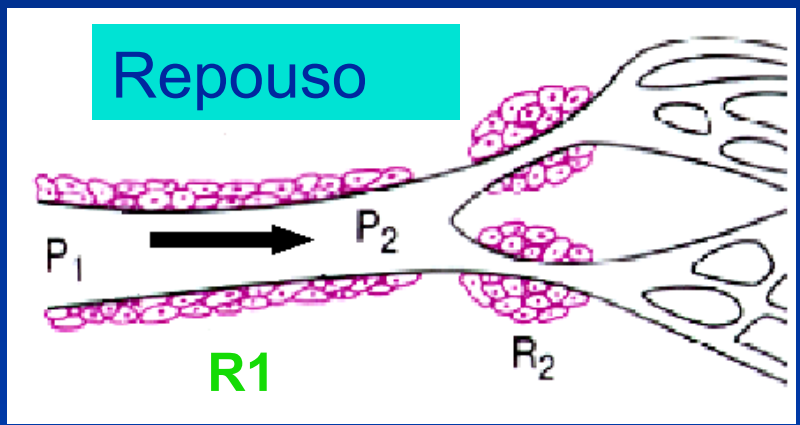
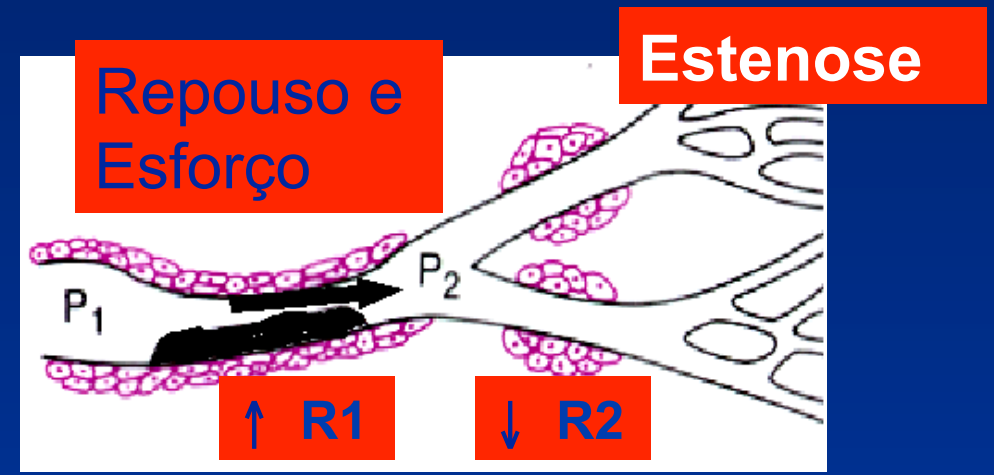
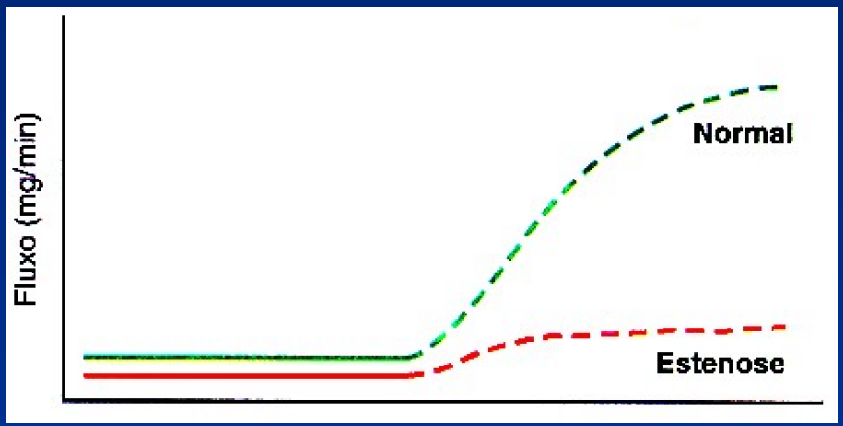
↓ de ÁREA: 75% 90% 99%

- Estenose significativa: > 50% ↓ DL
» isquemia durante estresse máximo
- Estenose crítica: > 70% ↓ DL
» isquemia de baixo limiar de esforço, às vezes mesmo em repouso

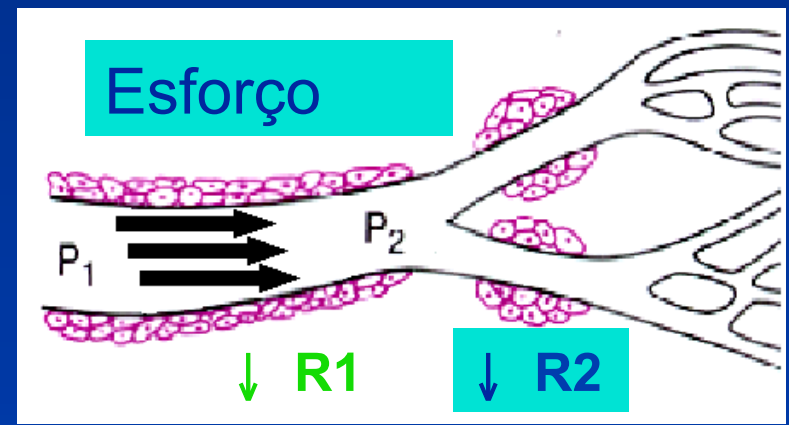


The image cannot be displayed. Your computer may not have enough memory to open the image, or the image may have been corrupted. Restart your computer, and then open the file again. If the red x still appears, you may have to delete the image and then insert it again.

RESERVA VASODILATADORA CORONÁRIA

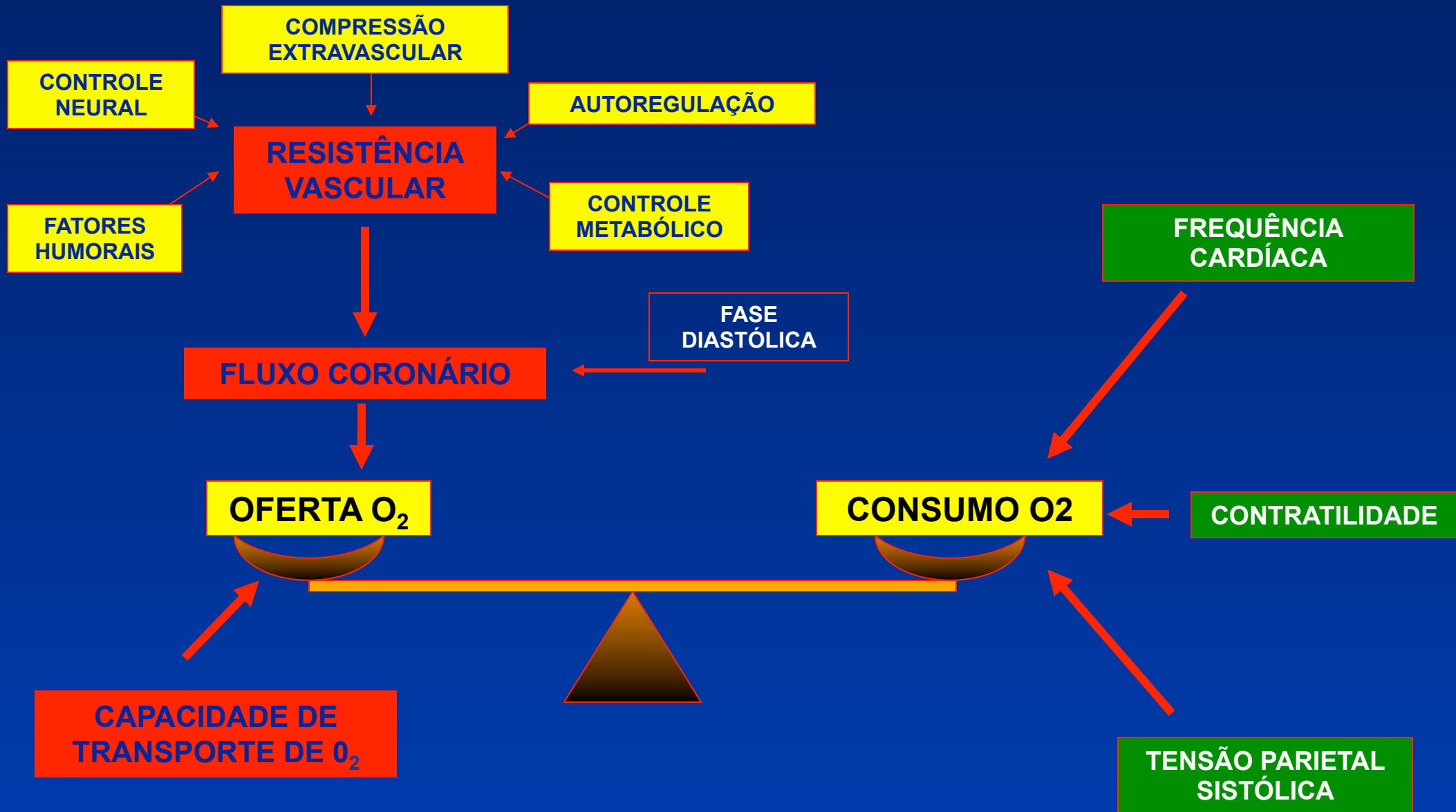


Normal




Normal

FISIOPATOLOGIA – ISQUEMIA MIOCÁRDICA



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 The image cannot be displayed. Your computer may not have enough memory to open the image, or the image may have been corrupted. Restart your computer, and then open the file again. If the red x still appears, you may have to delete the image and then insert it again.

Doença Arterial Coronária

Isquemia Miocárdica

- Epidemiologia
- Fisiopatologia
- **Aspectos clínicos**
- Diagnóstico
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The image cannot be displayed. Your computer may not have enough memory to open the image, or the image may have been corrupted. Restart your computer, and then open the file again. If the red x still appears, you may have to delete the image and then insert it again.

Síndromes coronárias

- Morte súbita
- IAM com \uparrow ST*
- IAM SSST*
- Angina instável*
- Angina estável
- Angina de Prinzmetal
- Isquemia silente
- Equivalentes anginosos
- Síndrome X (isquemia microvascular)
- “Stunning” e hibernação miocárdica
- Arritmias cardíacas
- Insuficiência cardíaca (“miocard. isquêmica”)

*

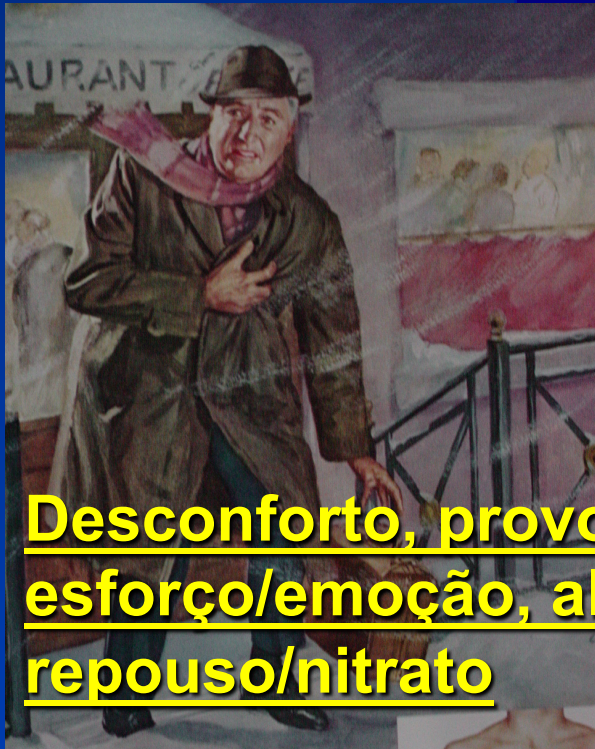
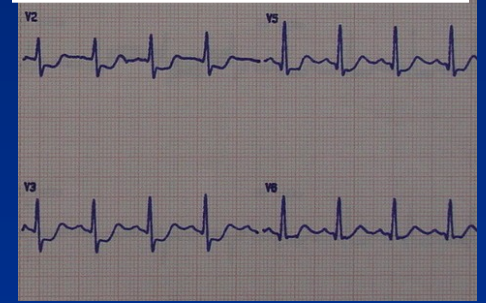
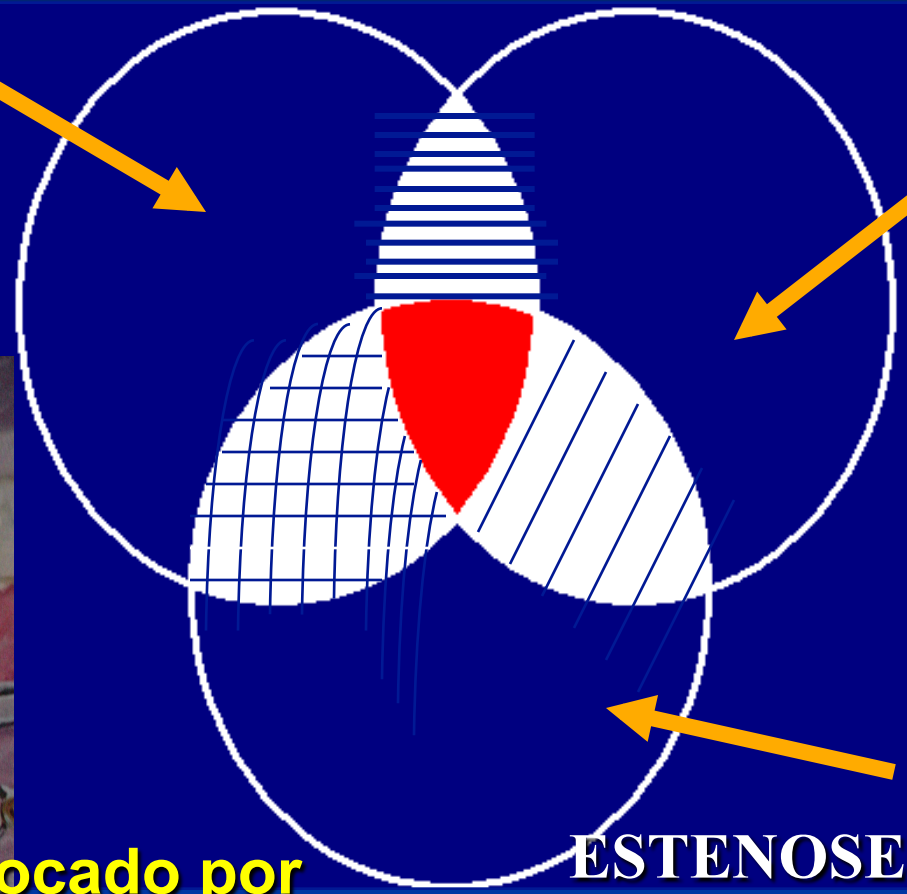
SIMI

DOENÇA ARTERIAL CORONÁRIA DOENÇA ISQUÊMICA MIOCÁRDICA

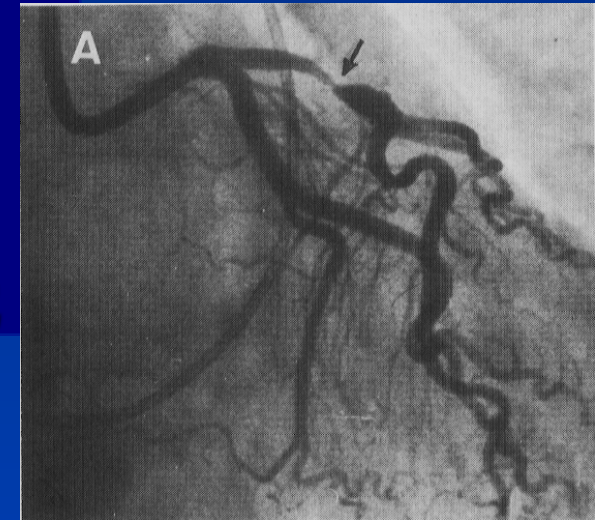
The image cannot be displayed. Your computer may not have enough memory to open the image, or the image may have been corrupted. Restart your computer, and then open the file again. If the red x still appears, you may have to delete the image and then insert it again.

“ISQUEMIA SUBJETIVA”

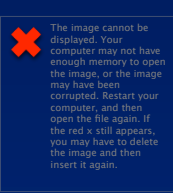
ISQUEMIA OBJETIVA



Desconforto, provocado por esforço/emoção, aliviado por repouso/nitrato



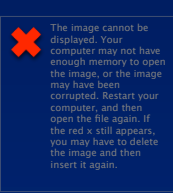
ESTENOSE



Doença Arterial Coronária

Isquemia Miocárdica

- Epidemiologia
- Fisiopatologia
- Aspectos clínicos
- **Diagnóstico**
- Prognóstico
- Terapêutica



Exames complementares na DCC estável

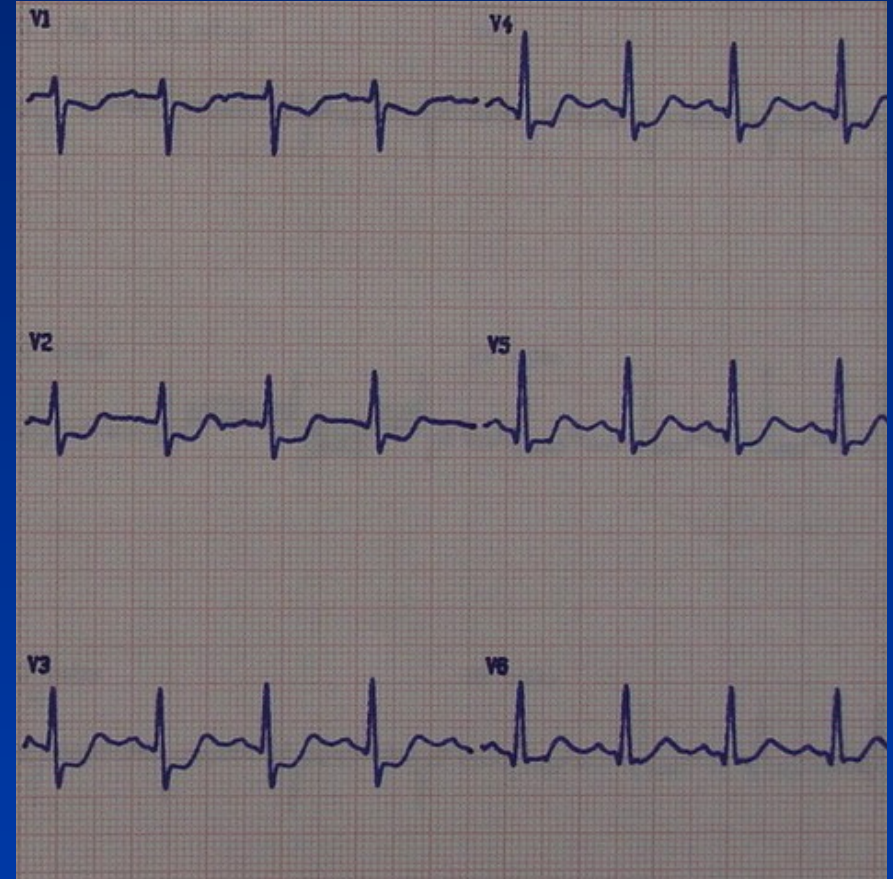
Padrão-ouro : cinecoronariografia

- **Sangue : hematológico, glicemia, uricemia, lipidograma, função tireoidiana, creatinina**
- **ECG-12 (repouso)**
- **Ecocardiograma transtorácico (repouso)**
- **Teste ergométrico com ECG**
- **Cintilografia miocárdica de perfusão**
- **Ecocardiografia de estresse**
- **Tomografia computadorizada de contraste**

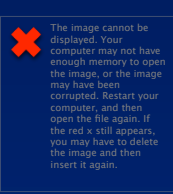
The image cannot be displayed. Your computer may not have enough memory to open the image, or the image may have been corrupted. Restart your computer, and then open the file again. If the red x still appears, you may have to delete the image and then insert it again.

DAC – DETECÇÃO DE ISQUEMIA TESTE ERGOMÉTRICO com ECG

- \downarrow ST \geq 1 mm (0.1mV)
- Valor prognóstico
 - » Carga de esforço (tempo)
 - » Nível de desnivelamento
 - » Resposta hemodinâmica
- Teste impossível
 - » BCRE, \downarrow ST em repouso
 - » Pré-excitação, marcapasso
 - » Digital, HVE
 - » Incapacidade esforço físico
- Contraindicações




Sens. \cong Espec. \cong 70%



Escore Duke – Teste ergométrico com ECG

- Tempo de esforço em minutos – 5 x desnível do ST em mm – 4 (se angina) – 0 (sem angina) – 1 (angina não limitante) – 2 (angina incapacitante)
- **Escore Duke**
 - ≥ 5 (risco baixo)
 - 4 a -10 (risco intermediário)
 - < -11 (alto risco)
- **Baixa capacidade funcional ≤ 4 Mets : alto risco**

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CONTRAINDICAÇÕES ao TESTE ERGOMÉTRICO

Absolutas

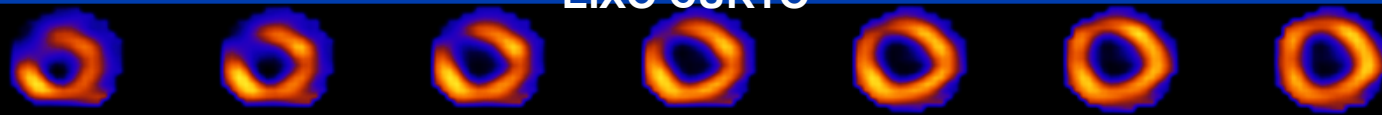
- IAM < 48h
- Dissecção aórtica
- Embolia pulmonar
- ICC descompensada
- Arritmia ventricular grave
- Miocardite aguda
- Recusa do paciente

Relativas

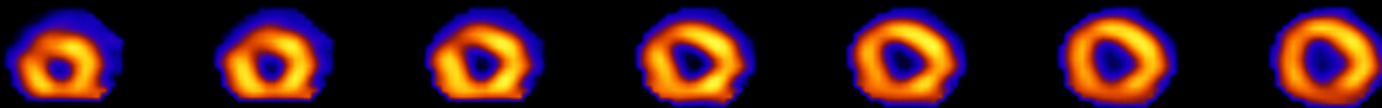
- AI ativa
- PAS > 200/110 mmHg
- Estenose valvar grave
- Miocardiopatia hipertrófica
- Distúrbios eletrolíticos
- Prolapso valvar mitral
- Disfunção grave de VE

EIXO CURTO

Estresse

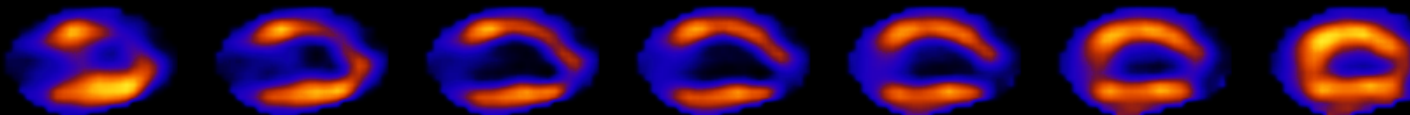


Repouso

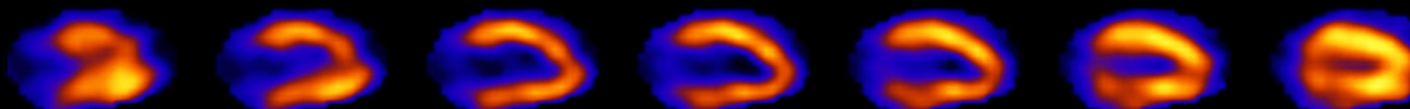


EIXO LONGO VERTICAL

Estresse

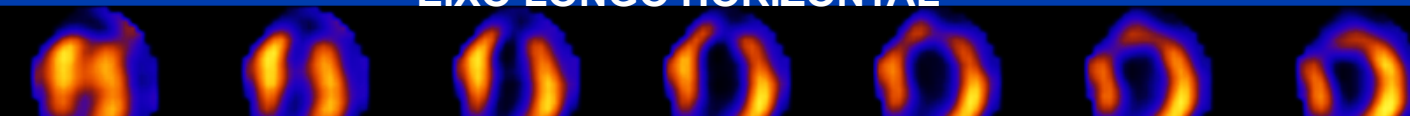


Repouso

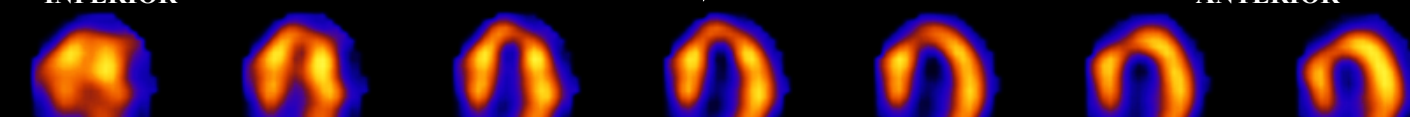


EIXO LONGO HORIZONTAL

Estresse



Repouso

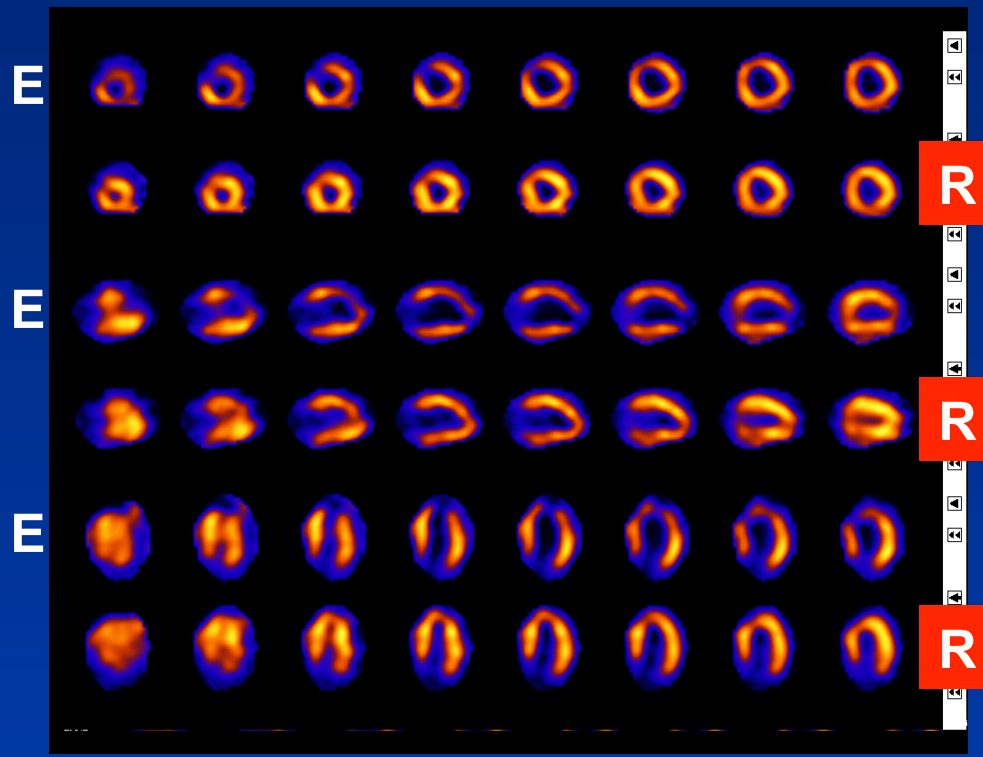


Kattus, 7 min, 135/min, assintomático, ↓ ST 3 mm D2M

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DAC – DETECÇÃO com MÉTODOS DE IMAGEAMENTO CARDÍACO

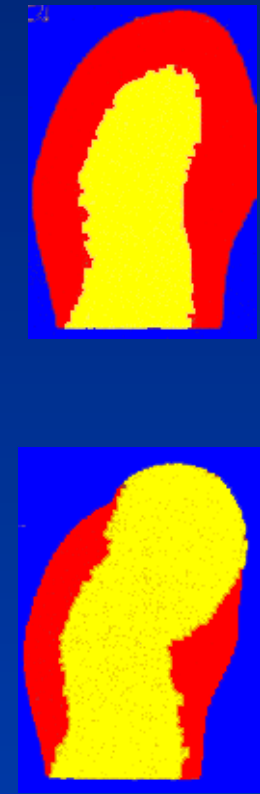
Cintilografia perfusional miocárdica



Sensib. \cong 90%


Especif. \cong 80%

Ecocardiografia de estresse



Sensib. \cong 80%

Especif. \cong 85%

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Doença Arterial Coronária

Isquemia Miocárdica

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Determinantes Prognósticos Doença Arterial Coronária Estável

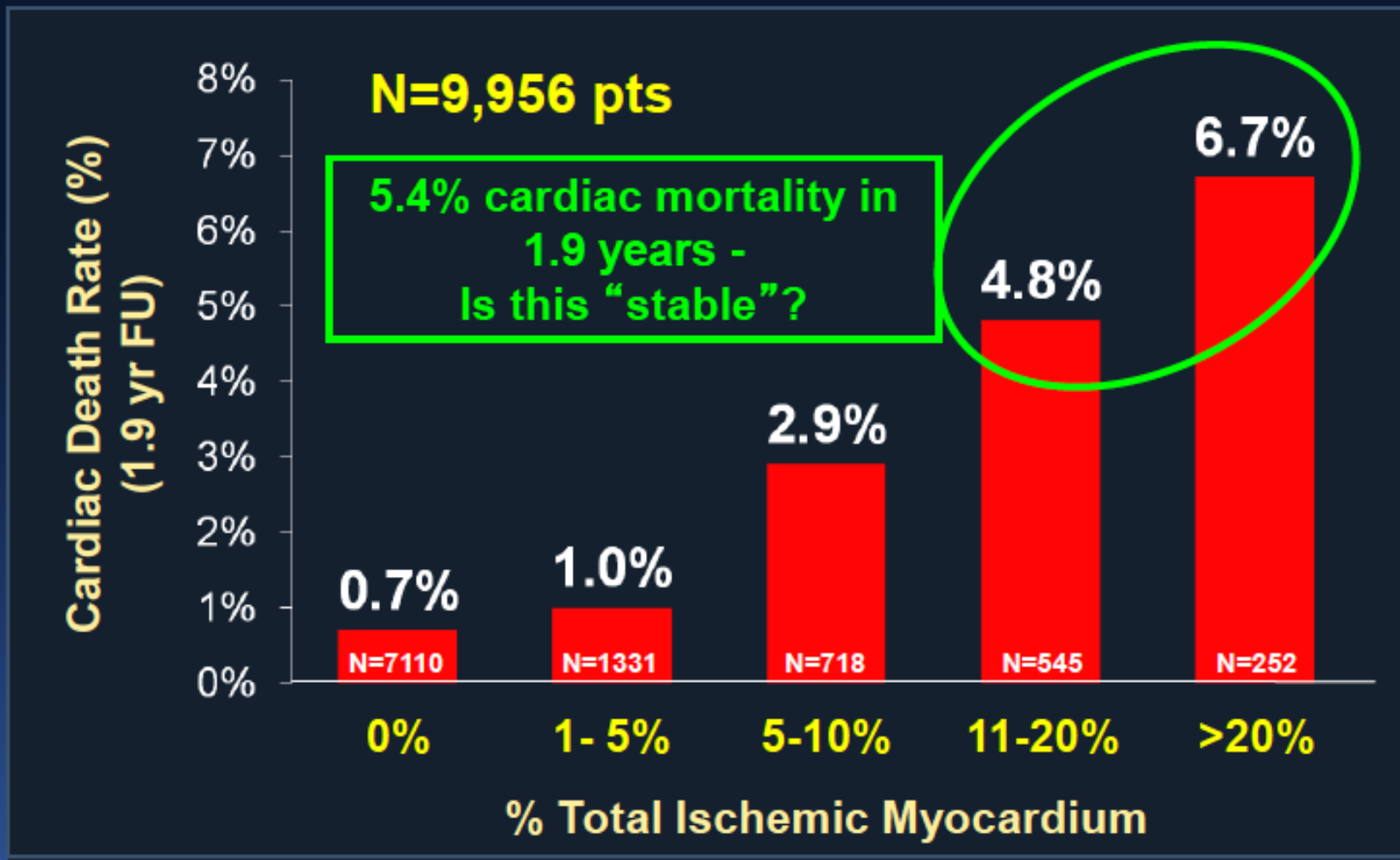
**Mortalidade
anual : 1- 7%**

**Miocárdio
Em
Risco**

- 1 - Disfunção sistólica (VE)**
- 2 - Extensão e intensidade da isquemia miocárdica (funcional)**
- 3 - Extensão da coronariopatia obstrutiva (anatômico)**

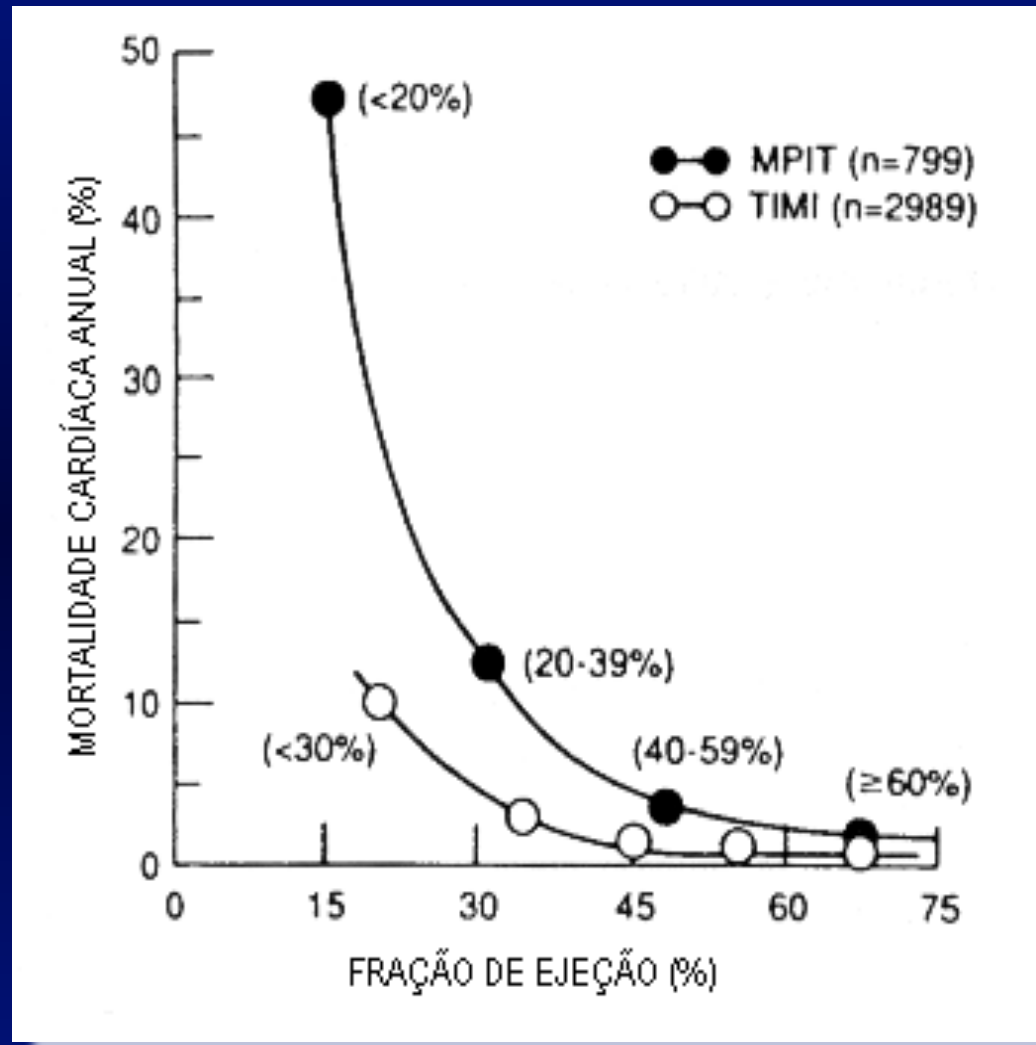
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There is a Wide-Range of Morbidity/Mortality among SIHD Patients

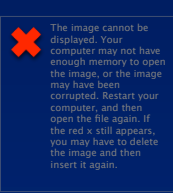


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FE(VE) vs MORTALIDADE



Bonow RO et col. J Nucl Cardiol 1994; 11: 280-291.



Doença Arterial Coronária Crônica Estável

Síntese de fisiopatologia e clínica

- **Doença subjacente : aterosclerose coronária**
- **Obstruções coronárias > 70% redução luminal**
- **Anamnese característica (Acurácia : 70 - 90%)**
- **Desequilíbrio oferta/consumo de O₂ miocárdico**
- **Esgotamento da reserva vasodilatadora coronária**
- **Exame físico frequentemente pouco alterado**
- **Testes de estresse detectam isquemia miocárdica.**