


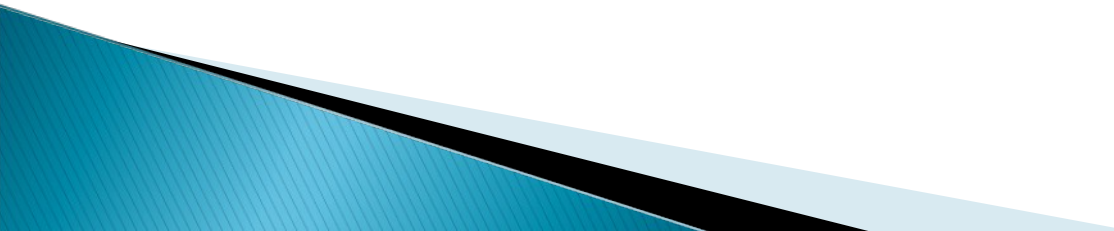
Acidente Vascular Cerebral Isquêmico

▶ **Dr. Antonio Vinicius Ramalho Leite**



Acidente Vascular Cerebral Isquêmico



- Início súbito de um déficit neurológico atribuído a dano vascular focal.
 - Aproximadamente 200.000 mortes nos EUA cada ano.
 - Principal causa de incapacidade.
 - A admissão em unidade de AVC diminui mortalidade em 30% e melhora resultados.
- 

Cause of Ischemic Stroke

Common Causes	Uncommon Causes
Thrombosis	Hypercoagulable disorders
Lacunar stroke (small vessel)	Protein C deficiency
Large vessel thrombosis	Protein S deficiency
Dehydration	Antithrombin III deficiency
Embolic occlusion	Antiphospholipid syndrome
Artery-to-artery	Factor V Leiden mutation*
Carotid bifurcation	Prothrombin G20210 mutation*
Aortic arch	Systemic malignancy
Arterial dissection	Sickle cell anemia
Cardioembolic	β-Thalassemia
Atrial fibrillation	Systemic lupus erythematosus
Mural thrombus	Homocysteinemia
Myocardial infarction	Thrombotic thrombocytopenic purpura
Dilated	Disseminated intravascular coagulation
Cardiomyopathy	Dysproteinemias
Valvular lesions	Nephrotic syndrome
Mitral stenosis	Inflammatory bowel disease
Mechanical valve	Oral contraceptives
Bacterial	Venous sinus thrombosis*
endocarditis	Fibromuscular dysplasia
Atrial septal aneurysm	Vasculitis
Spontaneous	Systemic vasculitis [PAN, granulomatosis with
echo contrast	polyangiitis (Wegener's), Takayasu's giant cell arteritis]
	Primary CNS vasculitis
	Meningitis (syphilis, tuberculosis, fungal, bacterial, zoster)
	Cardiogenic
	Mitral valve calcification
	Atrial myxoma
	Intracardiac tumor
	Marantic endocarditis
	Libman-Sacks endocarditis
	Subarachnoid hemorrhage vasospasm
	Drugs cocaine, amphetamine
	Moyamoya disease
	Eclampsia

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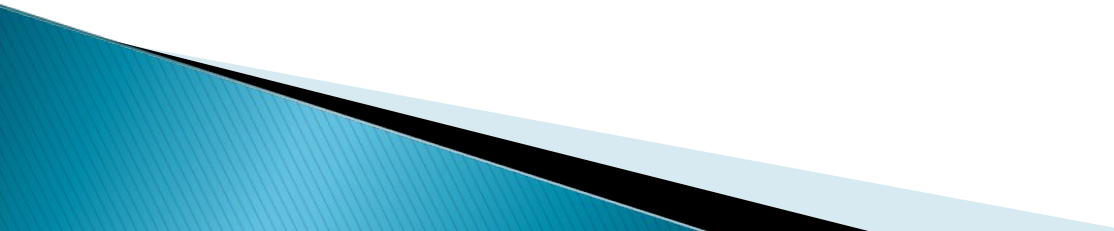
Formas de Apresentação

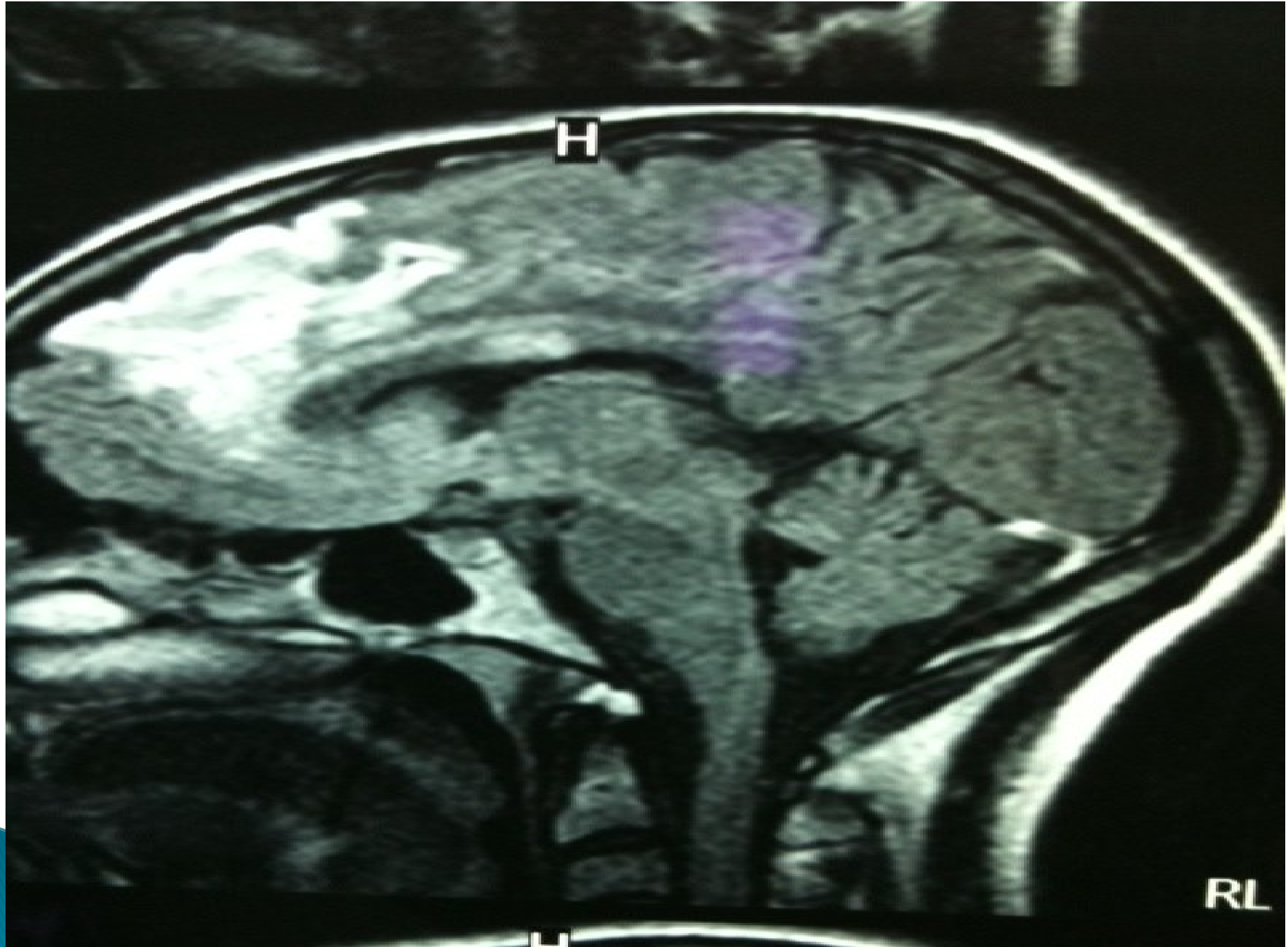
- AITT
 - RIND
 - STEP-WISE
 - Déficit instalado
- 

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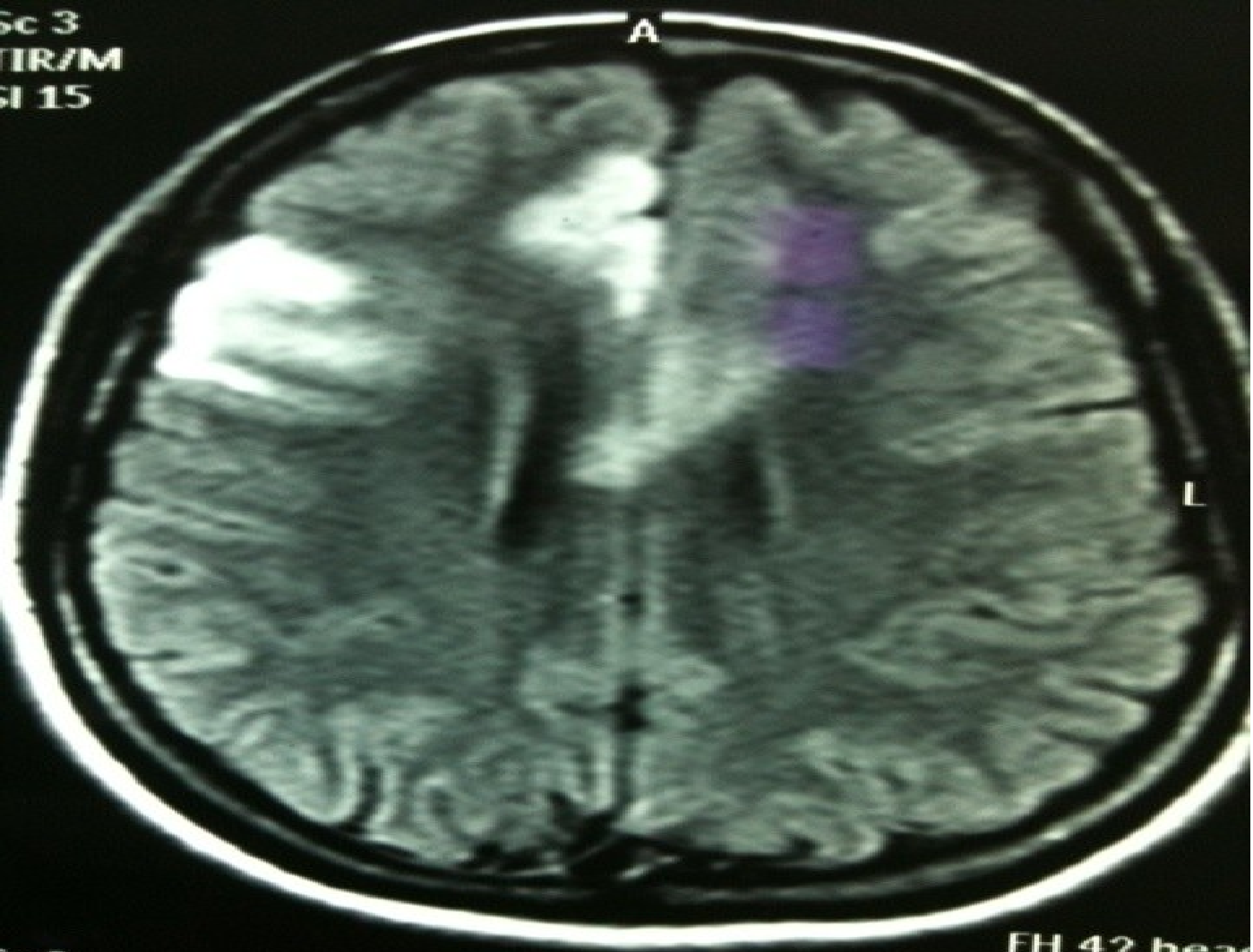


Diagnóstico por Imagem

- Tomografia do crânio
 - Angiotomografia ou Angioressonância
 - Ressonância com difusão
 - Angiografia cerebral
 - Doppler transcrâniano
- 

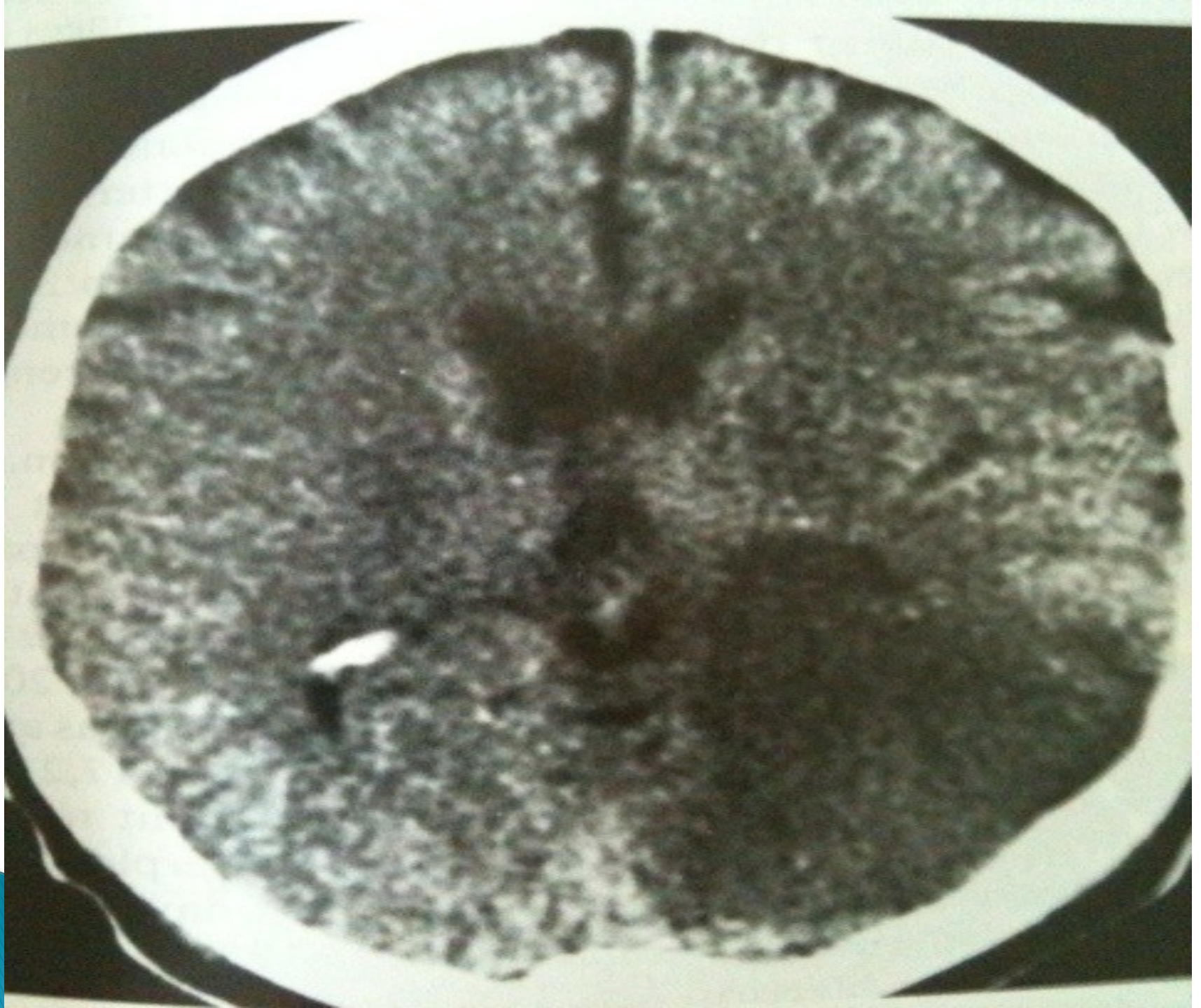


Sc 3
TIR/M
SI 15

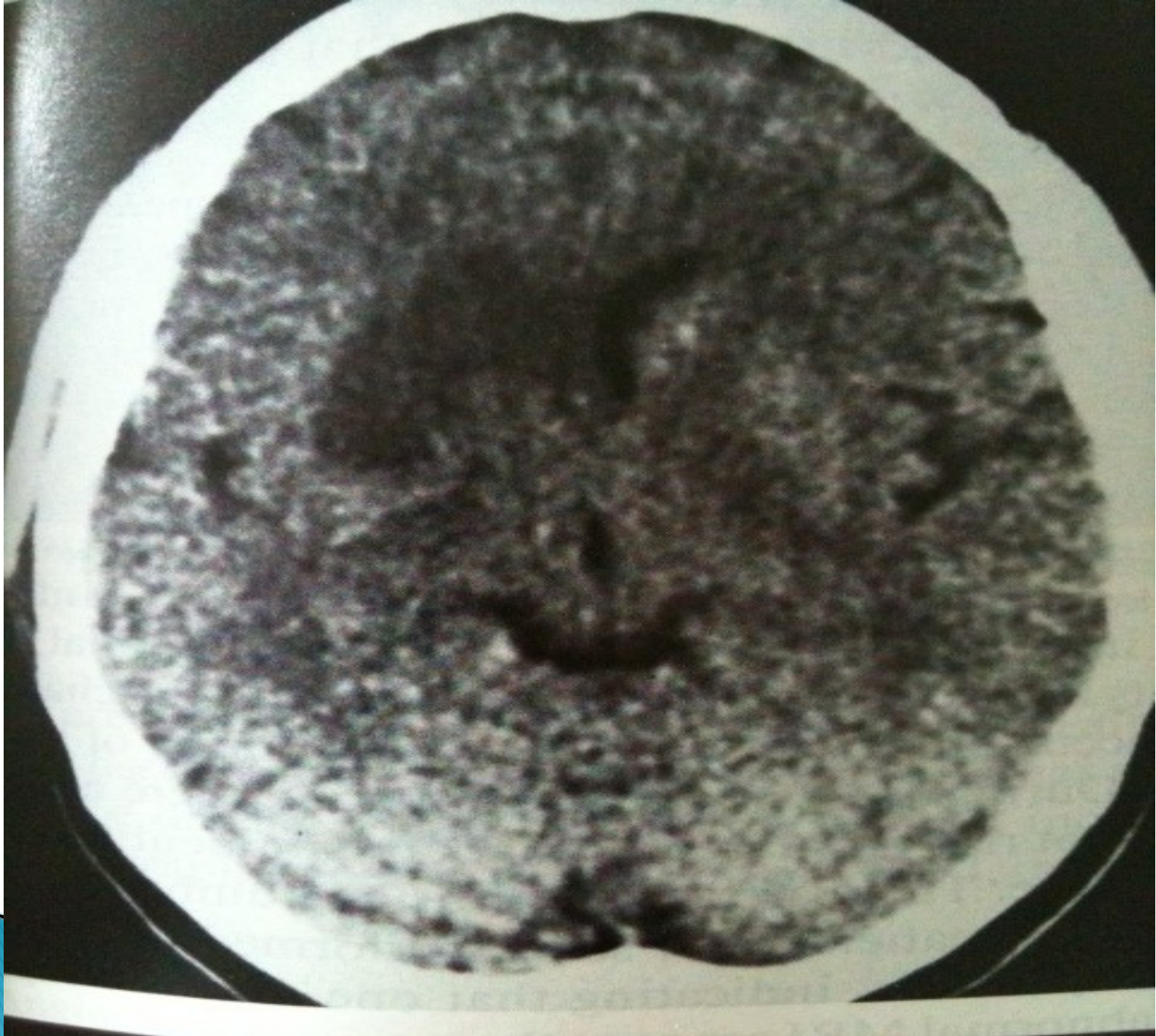


FH 42 head



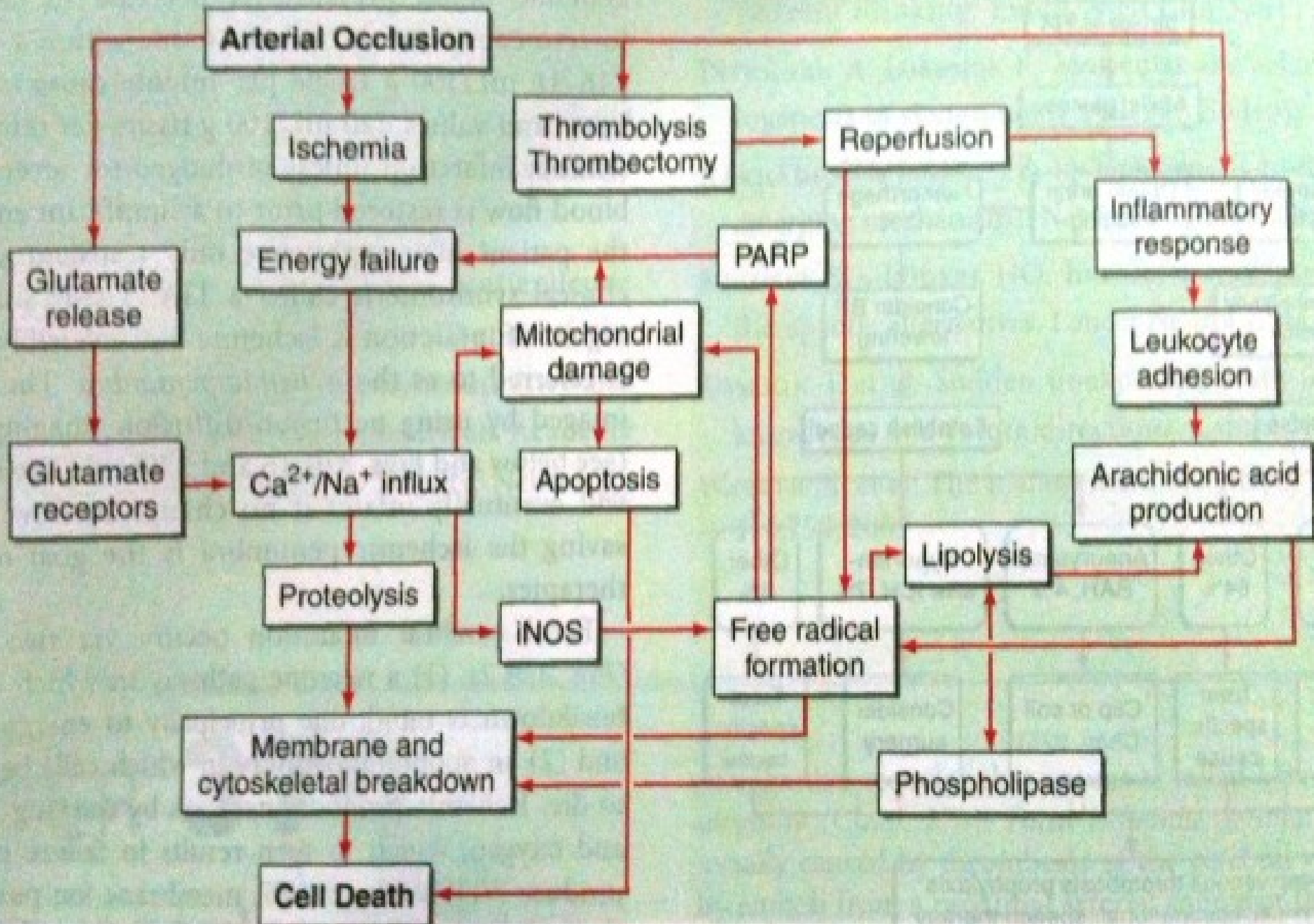








CASCADE OF CEREBRAL ISCHEMIA



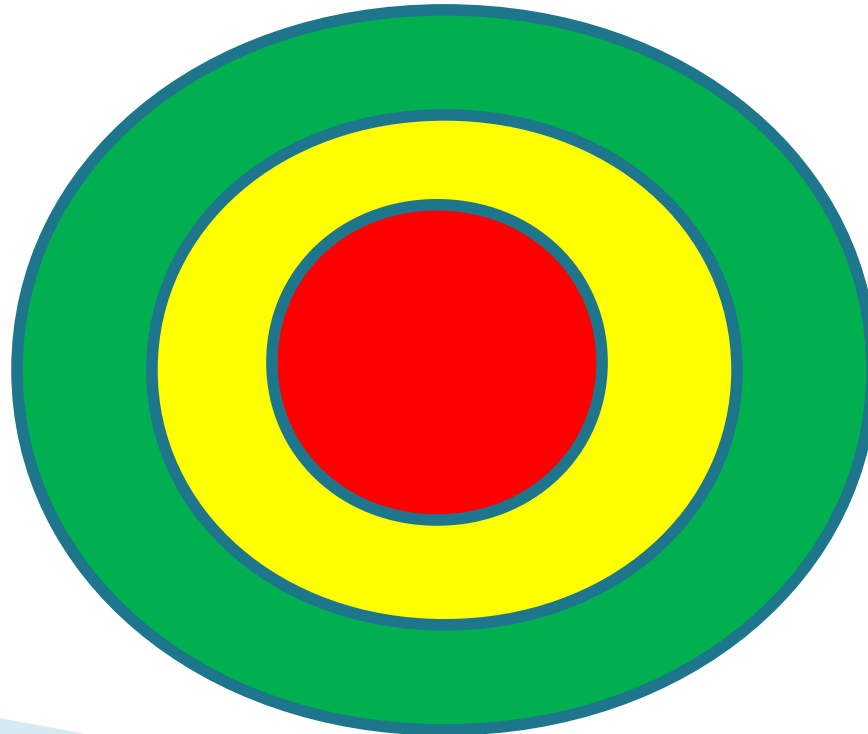
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Estratégia do Tratamento AVCI Agudo

Área Isquêmica
Central



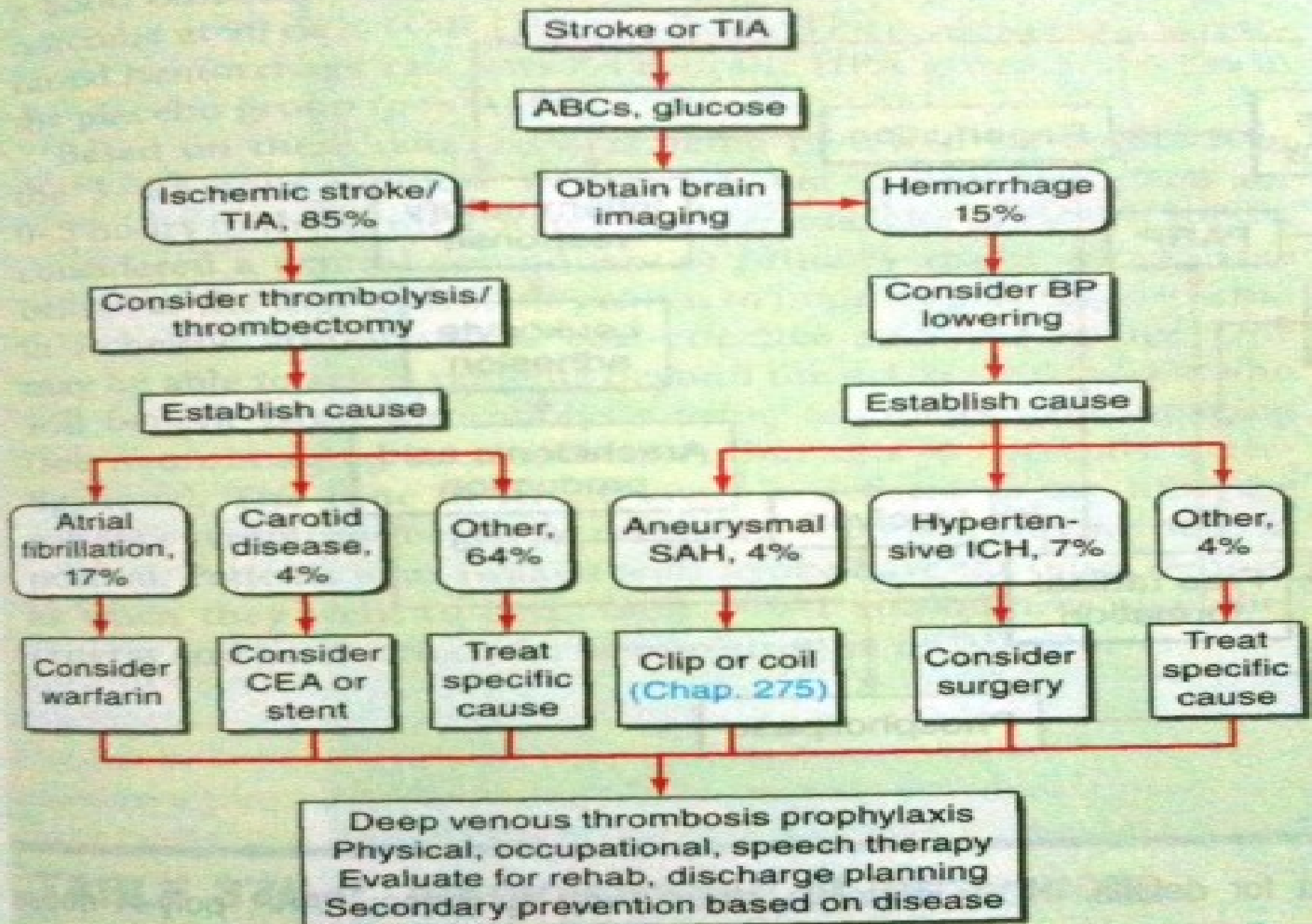
Área de
Penumbra



Quanto > área central e <
penumbra = pior resultado

Imagem da tomografia
x
penumbra

ALGORITHM FOR STROKE AND TIA MANAGEMENT



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Medidas Gerais

- Oxigenação adequada – vias aéreas
- Manutenção da PPC (PAM-PIC) - desidratação
- Vasopressores se PA baixa
- Baixa PA se $\geq 185/120$ em:
 - HAS maligna com encefalopatia hipertensiva
 - IAM ou angina associada (LVF)
 - Transformação hemorrágica
 - Dissecção de aorta
 - Antecipar trombólise
- Preservação TVP; MEIA, fisioterapia com manipulação precoce, heparina/derivados
- Atenção para infecção (pulmão, urina, pele)
- Tratamento precoce de febre
- Glicemia: evitar extremos
- Combate ao edema cerebral (restrição líquida/manitol) cabeceira elevada, etc.

Tratamiento Específico

Administration of Intravenous
Recombinant Tissue Plasminogen
Activator (rtPA) for Acute Ischemic Stroke (AIS)*

Indication	Contraindication
Clinical diagnosis of stroke Onset of symptoms to time of drug administration CT scan showing no hemorrhage or edema of > 1/3 the MCA territory Age \geq 18 years Consent by patient or surrogate	Sustained BP > 185/110 mm Hg despite treatment Platelets <100,000; HCT<25% glucose <50 or>400 mg/dl Use of heparin within 48h and prolonged PTT, or elevated INR Rapidly improving symptoms Prior stroke or head injury within 3 months: prior intracranial hemorrhage Major surgery in preceding 14 days Minor stroke symptoms Gastrointestinal bleeding in preceding 21 days Recent myocardial infarction Coma or stupor

Administration of Intravenous Recombinant Tissue Plasminogen Activator (rtPA) for Acute Ischemic Stroke (AIS)*

Administration of rtPA

Intravenous access with two peripheral IV lines (avoid arterial or central line placement)

Review eligibility for rtPA

Administer 0,9 mg/kg IV (maximum 90 mg) IV as 10% of total dose by bolus, followed by remainder of total over 1h

Frequent cuff blood pressure monitoring

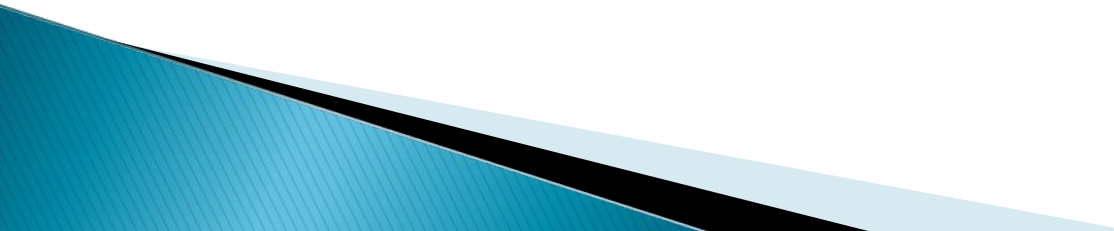
No other antithrombotic treatment for 24 h

For decline in neurologic status or uncontrolled blood pressure, stop infusion, give cryoprecipitate, and reimaging brain emergently

Avoid urethral catheterization for ≥ 2 h.

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- Tratamento Antitrombótico – ASS 300mg/Clopidogrel 75mg
 - Tratamento anticoagulante
 - Hoje para prevenção TVP: Heparina ou Heparina LW
 - Hemicraniectomia descompressiva (casos selecionados)
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Obrigado!



Dr. Antonio Vinicius