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QUAL A HIPÓTESE DIAGNÓSTICA?

Masc, 69 anos, hemiparesia DIR



- A. AVC agudo
- B. Hematoma subdural agudo
- C. Hematoma subdural subagudo
- D. Hematoma epidural

RESPOSTA

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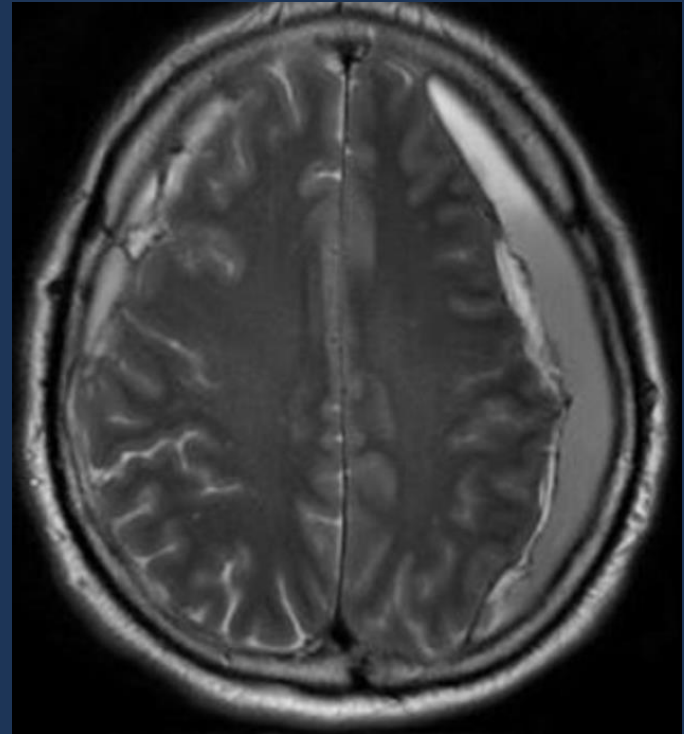
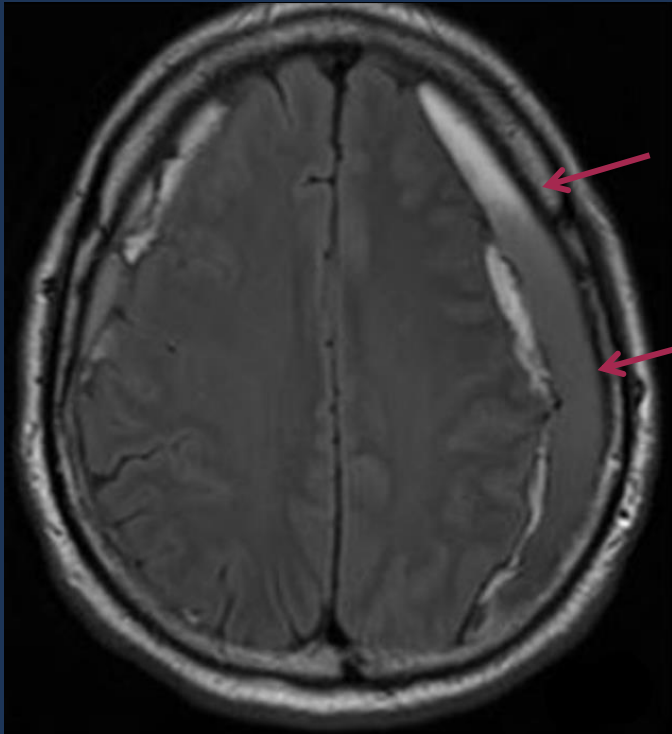
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DISCUSSÃO



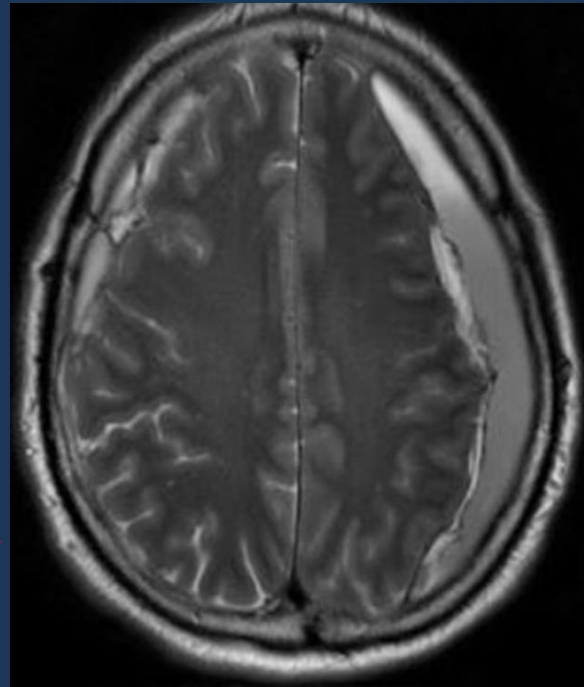
neurosky

Hematoma subdural



- Morfologia em crescente (*setas contínuas vermelhas*)
- Relacionado à ruptura de veias em ponte
- Não respeita (ultrapassa) suturas
- Respeita inserções durais
- 95% supratentoriais
- Etiologia: trauma, etilismo, anti-coagulantes, idosos

Hematoma subdural subagudo



- 03-14 dias
- TC: isodenso à substância cinzenta (*setas contínuas vermelhas*)
- RM:
- Subagudo precoce: hiperintenso em T1 e hipo/isointenso em T2
- Subagudo tardio: hiperintenso em T1 e hiperintenso em T2

Hematoma subdural

fases de degradação x imagem

Table 1: Classic SDH stages in CT and MRI (at 1.5T)^a

Characteristics	Stage				
	Hyperacute	Acute	Early Subacute	Late Subacute	Chronic
Assumed time range ^b	Min: 0 hr Max: 24 hr	Min: 1 day Max: 3 days	Min: 2 days Max: 2 wk	Min: 1 wk Max: 3 wk	Min: 2 wk
NECT ^c	↓/↔	↑	↑	↔	↓
MRI ^c (T1)	↔	↔	↑	↑	↓
MRI ^c (T2)	↑	↓	↔/↑	↑	↑
Hb state	Oxy-Hb	Desoxy-Hb	Met-Hb	Met-Hb	Ferritin/hemosiderin
Hb localization	Intracellular	Intracellular	Intracellular	Extracellular	Extracellular
Fe oxidation state	Fe ²⁺	Fe ²⁺	Fe ³⁺	Fe ³⁺	Fe ³⁺
Pathophysiology	Unclothed blood	Clotted blood, clot retraction	Max clot retraction, erythrocytes predominantly (still) intact, oxidative denaturation of the desoxy-Hb into met-Hb	Lysis of erythrocytes, thereby increase of extracellular met-Hb, start of disintegration to heme and globin, Fe ³⁺ is stored within the macromolecule ferritin and the phagocytic product hemosiderin, respectively	In contrast to intraparenchymal hematomas, removal of ferritin and hemosiderin within the extra-axial space is accelerated due to the missing blood-brain barrier (therefore ↑ in T2)

Note:—NECT indicates nonenhanced CT; Hb, hemoglobin; ↑, hyperdense/hyperintense; ↓, hypodense/hypointense; ↔, isodense/isointense; Min, minimum; Max, maximum; Desoxy-Hb, Desoxy-Hemoglobin; Oxy-Hb, Oxy-Hemoglobin; Met-Hb, Met-Hemoglobin.

^a According to Hedlund,²² Vezina,²⁸ Lee et al,⁶¹ Duhem et al,⁶² Tung,⁶³ Cramer et al,⁶⁴ Bradley,⁶⁵ and Bergström et al.⁶⁶

^b Due to insufficient data base, the time intervals stated do not represent absolute borders—that is, the ranges may be exceeded or undercut in single cases.

^c Density/signal intensity compared with cortical brain tissue.

Skyforce choice

- *Imaging of Subdural Hematomas. Neurosurg Clin N Am . 2017 Apr;28(2):179-203*
- *Osborn's Brain 2nd Edition. 2017; Elsevier*
- *Understanding Subdural Collections in Pediatric Abusive Head Trauma. AJNR Am J Neuroradiol . 2019 Mar;40(3):388-395*