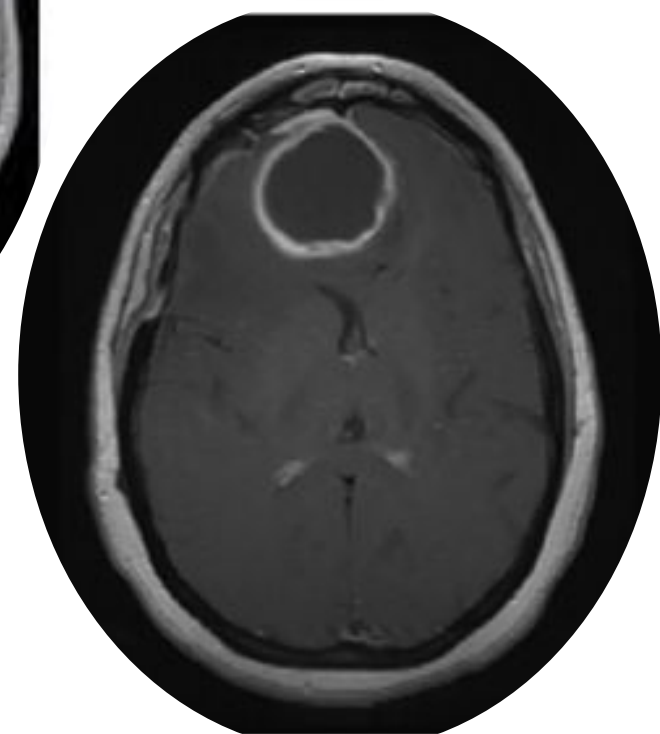
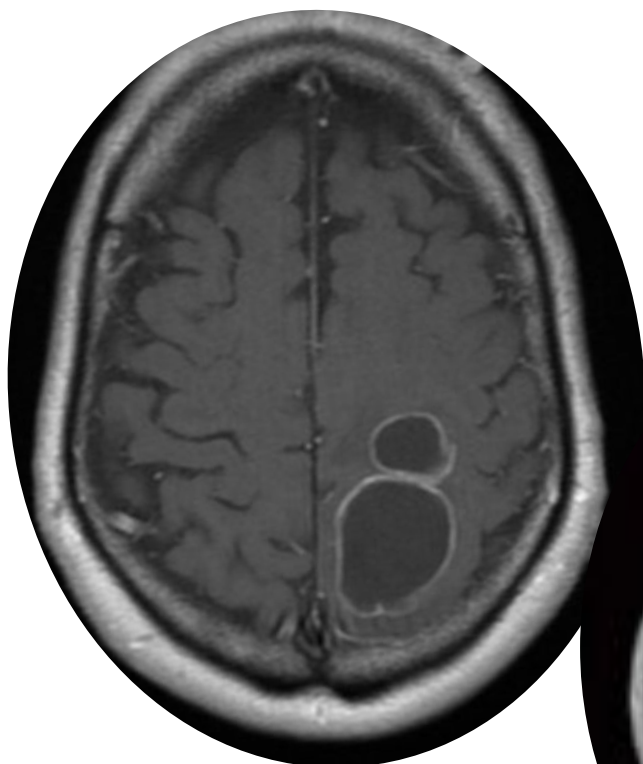


Abscesso Cerebral:

Principais diagnósticos diferenciais



Três patologias diferentes com aspecto de imagem semelhante...



Sequências ponderadas em T1 com gadolínio: vejam que em todas as lesões há um realce anelar.

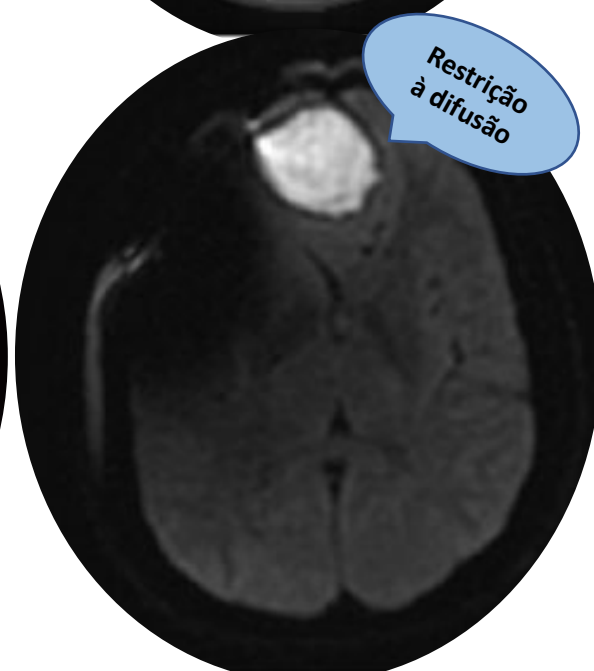
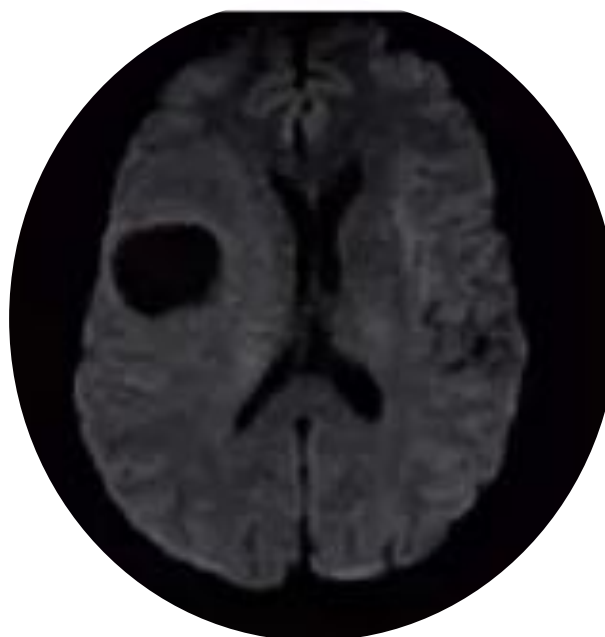
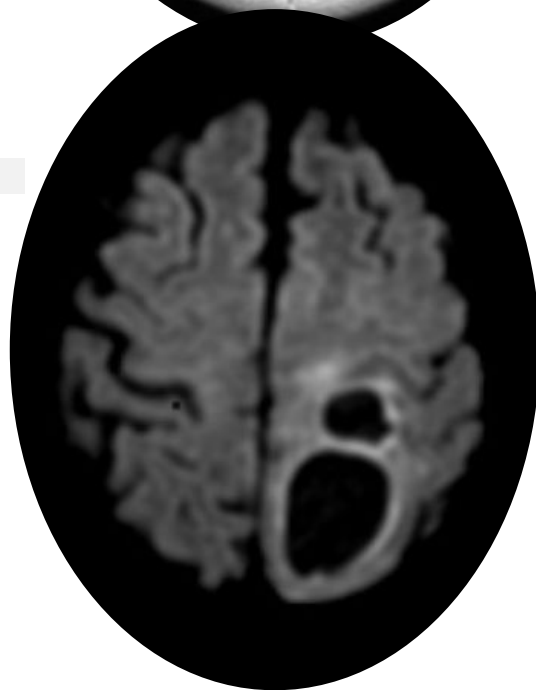
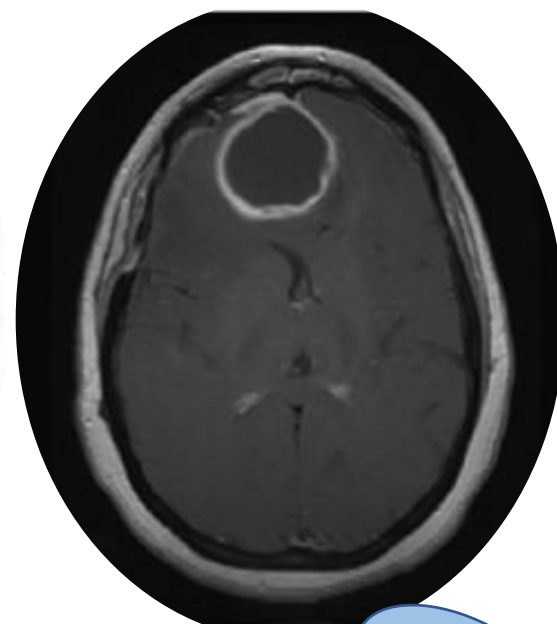
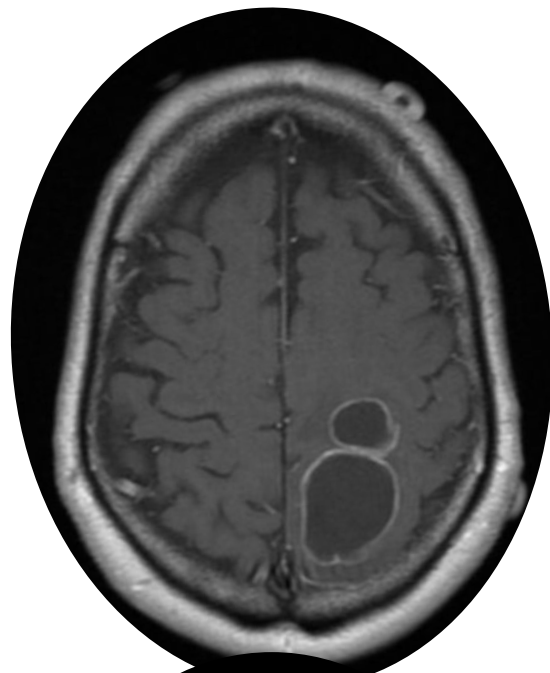
E agora? Como diferenciá-las?

Abscesso Cerebral:

Principais diagnósticos diferenciais



Ao adicionarmos a difusão, o diagnóstico pode parecer óbvio.



METÁSTASE CÍSTICA

GLIOBLASTOMA

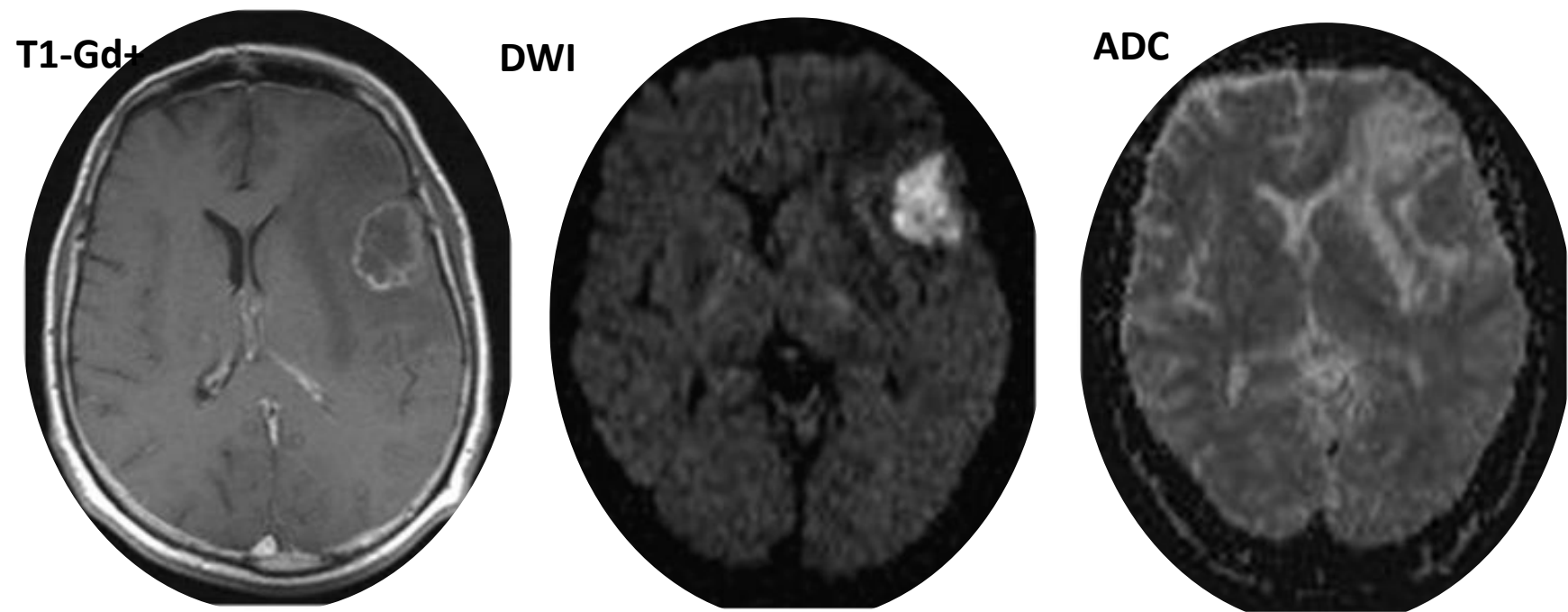
ABSCESSO

Abscesso Cerebral:

Principais diagnósticos diferenciais



Mas nem sempre será assim...

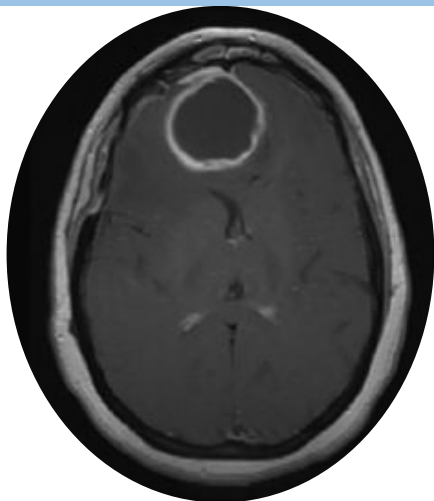


Lesão com realce anelar e restrição à difusão



Diagnóstico confirmado de metástase cerebral.

Principais diferenciais de realce anelar



ABSCESSO



GLIOBLASTOMA



METÁSTASE CÍSTICA

Abscesso Cerebral:

Principais diagnósticos diferenciais

Achados clássicos do Abscesso Cerebral

T2

Halo hipointenso

T1-Gd+

Realce anelar

Mais de
uma lesão

SWI

Dual rim sign

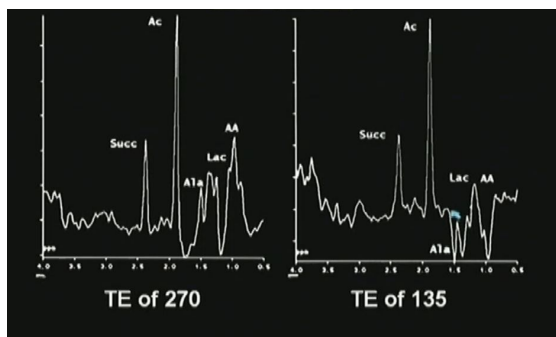
DWI

Restrição à difusão

ADC

PWI

Perfusão "fria"

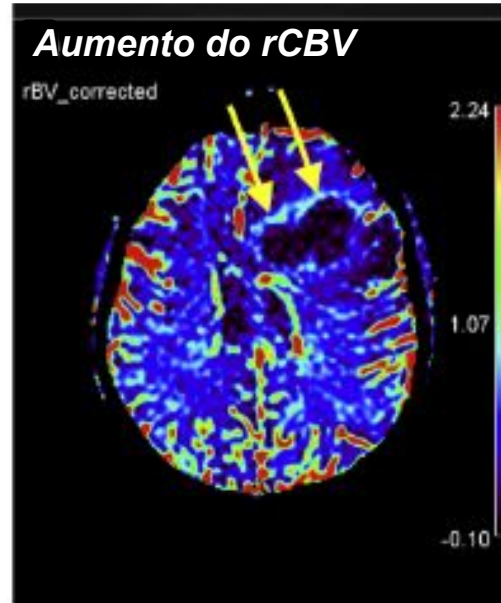
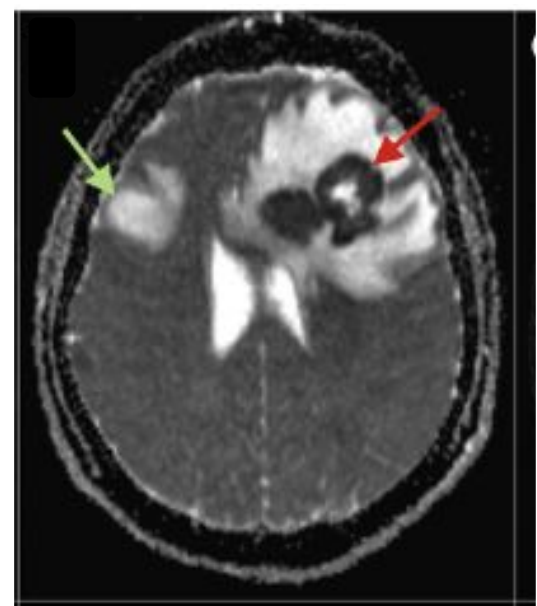
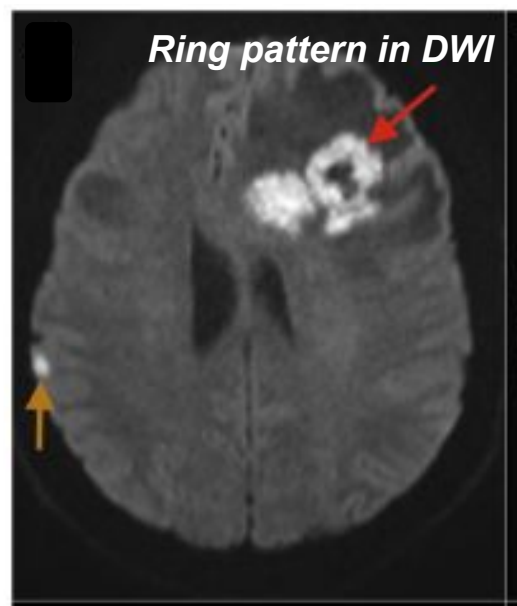
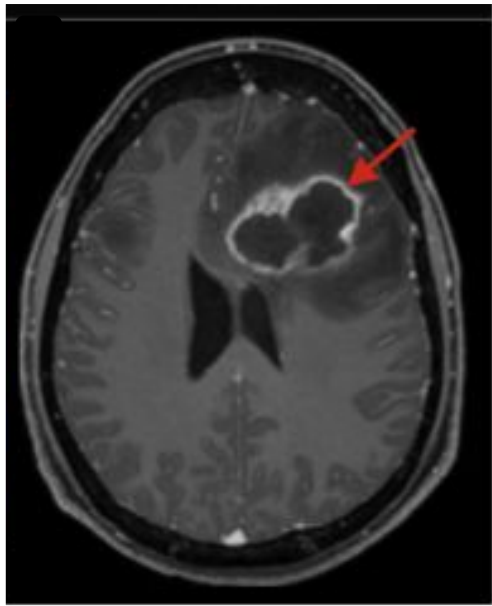


A espectroscopia é útil e demonstra a presença de aminoácidos, lactato, acetato e succinato.

Abscesso Cerebral:

Principais diagnósticos diferenciais

Às vezes, o abscesso pode ser atípico...



Dicas para diferenciar glioblastoma de abscesso

	Glioblastoma	Abscess
DWI	Low signal	Restriction in central abscess cavity
SWI	Incomplete irregular hypointense rim No dual rim sign	Complete smooth hypointense rim Dual rim sign
PWI	Higher rCBV values increased K2	Lower rCBV values than glioblastoma increased K2

DWI, diffusion weighted imaging; SWI, susceptibility weighted imaging; PWI, perfusion weighted imaging; rCBV, relative cerebral blood volume; K2, leakage coefficient.

- ✓ Chiang, I. C., et al. "Distinction between pyogenic brain abscess and necrotic brain tumour using 3-tesla MR spectroscopy, diffusion and perfusion imaging." *The British journal of radiology* 82.982 (2009): 813-820..
- ✓ Hakim, Arsany, Markus Oertel, and Roland Wiest. "Pyogenic brain abscess with atypical features resembling glioblastoma in advanced MRI imaging." *Radiology case reports* 12.2 (2017): 365-370..
- ✓ Toh, C. H., et al. "Differentiation of pyogenic brain abscesses from necrotic glioblastomas with use of susceptibility-weighted imaging." *American journal of neuroradiology* 33.8 (2012): 1534-1538.





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