Anaplastic Meningioma With Intratumoral Abscess (Poster ID: 2373)

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Disclosure

I have nothing to disclose.
Introduction

• The concurrence of a meningioma with intratumoral infection is a rare clinical presentation, currently only 11 cases have been reported in the literature. In this work we present the first anaplastic meningioma (WHO III) associated with infection.
Methods (Clinical case)

• A 63 year old homeless man with personal history of Diabetes Mellitus type 2 without treatment, alcohol abuse and poor dental hygiene, presented at the emergency room with a Glasgow score of 13, with rapid deterioration to 10 points, without any other focal deficit.

• With CT findings the patient was scheduled for emergency surgery due to clinical deterioration, with clinical suspicion of infected chronic subdural hematoma versus bran abscesses
Results

Figure 1. Preoperative emergency CT (A,B). Simple head CT at emergency room, showing multiple heterogenous lesions, with hypodense center. (C,D) Contrast head CT, with no enhancement.
Results

In surgery three extra axial rubberish lesions were found, one of them with purulent intratumoral content.
RESULTS

Figure 2. The pathology reported **anaplastic meningioma (WHO III)**, with fibrous and necrotic tissue, inflammatory neutrophil infiltration, and multiple bacterial colonies. Immunohistochemistry reported EMA paranuclear and membrane positivity. Progesteron receptors (+) (60%) nuclear, Ki67 index 48%, CD34 (-), HMB-45(-), TTF-1(-)
Figure 3. Postoperative CT. The study shows craniectomy area, minimal midline deviation, free perimesencephalic cisterns and residual lesion at parietal lobe
To the date only 11 cases of infected meningioma have been reported, Our current work is the first to address the histopathological grading of the reported cases (and adds one more case, which constitutes the first one classified as Anaplastic meningioma with intratumoral abscess.
Summary points

• The current case describes an atypical clinical presentation, of an infected anaplastic (malignant) meningioma.
• The available image in this emergency scenario showed limited aid to the final diagnosis.
• Only 11 cases of infected meningioma have been previously reported, 2 were classified as atypical meningioma (WHO II), 10 were identified as benign (WHO I).
• Our current work constitutes the first one classified as Anaplastic meningioma with intratumoral abscess.