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## Manuscript Title:

A case report of mammary-type myofibroblastoma with infarction and atypical mitosis: a potential diagnostic pitfall

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### Abstract:

**Background:** Mammary-type myofibroblastoma (MTMF) is a rare benign extramammary soft tissue tumor with myofibroblastic differentiation. Although 160 cases of MTMF have been reported in the literature since 2001, no cases of infarction or atypical mitosis have been reported so far. Herein, we report an unusual case of MTMF in the pelvic cavity, which mimicked some malignant features, including infarction, atypical mitosis, infiltrative growth, and prominent cytologic atypia, making it difficult to ascertain whether the tumor was benign.

**Case Summary:** A 49-year-old male complained of pain and discomfort in the right buttock for more than 4 months and did not receive any treatment. Nuclear magnetic resonance imaging (MRI) showed a 13-cm-sized mass in his right pelvic cavity. Histologically, significant differences were atypical mitosis figures and multiple necrotic foci in the tumor. In addition, smooth muscle and skeletal muscle were invaded within and at the edge of the tumor. The morphologic feature is often reminiscent of malignant tumors and therefore poses diagnostic challenge to pathologists. The immunophenotype was strongly positive for both CD34 and desmin (Des), and...

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