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Benign leiomyoma metastasizing to multiple organs and literature review

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Uterine leiomyomas are highly common. Their incidence is generally cited as 20-25%, but has been shown to be as high as 70-80% in studies using histologic or sonographic examination. Disease metastasis is extremely rare and is of unknown etiology. It primarily affects women of reproductive age and might appear years after myomectomy or hysterectomy procedures. Most common theory is of leiomyoma spread hematogenously. Most common sites are the lungs, heart, lymph nodes, omentum, peritoneum, pelvic cavity, breast, bone, mediastinum and nervous system. In our case the patient presented with abdominal pain with a history of a 9 cm leiomyoma removal 2 years prior. On CT scan, a heterogenous uterus measuring 19 × 14 × 19 cm was visualized along with multiple vertebral sclerotic/blastic lesions. Due to increased concern of metastatic disease, additional imaging was performed unmasking multiple nodules in the lungs, pleura, sternum and mediastinum. Pleural biopsy revealed benign leiomyoma pathological structure. There are no randomized studies which were conducted on the best way to manage these cases. 100 cases were described so far in English literature, even though these were milder and did not involve lesion spread to such extent.

Biography

Polonsky Ariel graduated from medical school in 2011. He finished a year of internship in Kfar-Saba Medical Center in Israel and started his residency in Obstetrics and Gynecology in Laniado-Sanz Medical Center in Netanya Israel in 2013. In 2015, he moved to Jersey city and initiated his residency there. He has published 3 articles and presented in 5 conferences. He is currently conducting 2 prospective observational studies.

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