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Title: Unusual metastases in lung cancer

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Body: Introduction: Common sites of lung cancer metastases are liver, bone, brain and adrenal. However, few other locations have been described in the literature such as cutaneous, muscular, renal, pancreatic and cardiac. Purpose: Illustrate the unusual locations of lung cancer metastases. Methods: A retrospective study conducted during a period of five years including the patients with lung cancer and unusual metastatic sites. Results: Eleven patients (9men and 2women) with a mean age of 52 years [32-70]. The mean duration of symptoms was 2.5 months. Histological types were: adenocarcinoma (7 cases), a small cell carcinoma (2 cases), squamous cell carcinoma(1 case) and a large cell cancer(1case). Two patients had more than one metastasis (two different sites). There were cutaneous metastases (4cases), renal (4cases), pancreatic (2cases), ovarian (1case), cardiac (1case) and muscular (1case). Metastasis had revealed lung cancer in one case. The histological diagnosis of lung cancer was confirmed by bronchial biopsy (6cases) percutaneous CT guided biopsy (1case) mediastinoscopy (1case) and the biopsy of ovarian site (1case). Chemotherapy was given in nine cases and palliative treatment in two cases. The evolution was rapidly progressive in all patients. The median survival was 4 months. Conclusion: Unusual metastases in lung

cancer have a poor prognosis because of a late diagnosis. These are often asymptomatic and discovered in radiology. Therefore, their screening should be systematic.