Due to a 6 month history of recurrent bronchitis associated with shortness in breath a female patient in the mid-50s was referred for radiographic evaluation. The radiographic examination of chest showed rounded lesions at the level of the right central lobe and increased interstitial reticular opacity [Table/Fig-1]. The patient’s history and the radiographical findings described were suspicious for malignant disease. Thus, the patient was admitted and subjected to further work-up (tumour search). A CT scan of the lungs confirmed the presence of intrapulmonary rounded nodular opacities of up to 1.5 cm in diameter corresponding to the X-ray findings [Table/Fig-2]. For histocytological confirmation of the origin of the nodules, a bronchoscopy was initiated. Unfortunately, the bronchoscopy with brush biopsy yielded the unspecific finding of an alveolar hyperplasia accompanied by lymphocytic and granulocytic inflammatory reaction. Finally, the patient was submitted to diagnostic partial lung resection. The histopathological evaluation of the resected, paraffin-embedded tissue revealed an overlaying, nearly confluent nodular structure of strongly hyalinized tissue with anthracotic pigmentation and peripheral accumulation of epitheloid cell granulomas accompanied by infiltration of lymphoid cells. No PAS-positive micro-organisms were detectable [Table/Fig-3a,b].

Necrotizing sarcoid granulomatosis (NSG) is a rare condition related to the family of sarcoidosis [1]. In imaging it can be confused with a malignant disease. Thus, patients may be confronted with the suspicion of suffering from malignant disease. Based on imaging direct referral to oncology centers and even initiating therapy might be discussed before further differential diagnoses are considered. However, not all suspicious pulmonary nodules are malignant. The diagnosis still has to be made by histopathology of cellular material from broncho-alveolar lavage (cytological examination) or trans-bronchial biopsy. Unfortunately, in our case, these procedures did not yield a clear diagnosis. A diagnostic lung resection had to be performed.

The diagnosis was Necrotizing sarcoid granulomatosis of the lungs. The patient was accordingly treated with anti-inflammatory agents (non-steroidal anti-inflammatory drugs) and symptoms were regressive thereafter. NSG is a rare but generally benign disease that shares similarities with pulmonary vasculitis and classical sarcoidosis [2]. It can reveal as benign cause of seemingly deleterious situation. It should always be taken into consideration, as differential diagnosis for intrapulmonary or systemic disease, alone or in association with other entities [3].

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REFERENCES

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