Still crazy after all these years
– Tuberculosis as an Old Disease with Diverse Facets in a Thirty-five-year-old Male Patient

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“Still crazy after all these years” – die „alte Dame“ Tuberkulose mit ihren verschiedenen Facetten bei einem 35-jährigen Patienten

Authors

U. Knoop 1, J. W. Dietrich 2, C. M. Heyer 3, A. Koch 1, H. Knoop 1

Institutions

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Abstract

We report about a thirty-five-year-old male patient with miliary TB as first manifestation of HIV-infection.

The Case

A thirty-five-year-old black male patient (BMI 21.1 kg/m2) was transferred to our hospital for further treatment of miliary tuberculosis (TB) which had been diagnosed elsewhere. Besides hepatomegaly due to confirmed tuberculotic affection, a CT scan showed enlarged mediastinal and abdominal lymph nodes with features of central necrosis and multiple disseminated pulmonary and splenic lesions (Fig. 1–3). HIV testing was positive, most likely as a consequence of unsafe sexual contacts with changing partners during a long-term stay in his home-country Kenya. Therefore, due to 1) HIV infection, 2) tuberculosis as acquired immune deficiency syndrome (AIDS)-defining disease and 3) a CD4-cell count of 30 per µl AIDS in CDC category C3 was diagnosed [1]. Standard antituberculotic treatment consisting of isoniazide (H), rifampicine (R), ethambutole (E) and pyrazinamide (Z) [2] had been paused at the time of admission to our hospital due to elevation of liver enzymes. Consequently, first sputum samples obtained in our hospital showed smear-positive pulmonary TB. Later on, the cultural result showed Mycobacterium tuberculosis (MTB) multiresistant to the antituberculotic medication mentioned above. We restarted treatment with E and replaced R, Z and H by levofloxacin (LFX), streptomycin (SM) and rifabutin (RFB). As to lymph node enlargement, lymphoma as well as Pneumocystis jiroveci (PCJ)-pneumonia as additional AIDS-defining diseases was excluded. Meanwhile, bone marrow samples indicated additional TB-attack (Fig. 4). Under treatment with SM for 30 days, LFX, RFB and E sputum samples were negative for MTB. Blood samples showed rising CD4-cell count and 1734015 copies of HIV-1 per ml. After patient’s transfer to a specialized department for AIDS, antituberculotic medication could be switched to RFB, E, Z and H with sustained success concerning microbiological results and stable laboratory liver parameters. Antiretroviral treatment with efavirenz, emtricitabine, and tenofovir was initiated. After four months of therapy, antituberculotic treatment could be reduced to RFB and H. Before admission to our hospital electrolyte imbalance with severe hyponatremia had been observed. Retrospectively, they were most likely due to syndrome of inadequate antidiuretic hormone secretion (SIADH) as TB-related phenomenon [3]. However, this assumption could not be verified, since levels of electrolytes and Copeptin A, a new biomarker for SIADH [4], were normalized at time of admission to our department. Copeptin has been evaluated as prognostic biomarker in community acquired pneumonia [5,6], but its diagnostic value in SIADH in the context of infectious diseases might be limited to a narrow time slot.

Conclusion

We present a case of extended miliary TB in a black male patient with African migration background and HIV infection as sexual transmitted disease (STD) and TB favouring disease.

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Conflict of Interest

The authors have no conflict of interest.

Institutions
1. Department of Internal Medicine III – Respiratory Medicine, Berufsgenossenschaftliches Universitätsklinikum Bergmannsheil GmbH, Ruhr-University of Bochum, Germany
2. Department of Internal Medicine I – Internal Medicine, Diabetology and Endocrinology, Berufsgenossenschaftliches Universitätsklinikum Bergmannsheil GmbH, Ruhr-University of Bochum, Germany
3. Institute of Diagnostic Radiology, Interventional Radiology and Nuclear Medicine, Berufsgenossenschaftliches Universitätsklinikum Bergmannsheil GmbH, Ruhr-University of Bochum, Germany

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