Mood disorder with psychotic symptoms and overlooked skin lesions: the strange case of Mrs. O

Disturbo dell’umore con sintomi psicotici e lesioni cutanee trascurate: lo strano caso della signora O

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SUMMARY. Here we report the case of Mrs. O., a 57 years-old woman presenting with mood disorder with psychotic symptoms developing strange skin lesions, ultimately leading to the suspected diagnosis of varicella-zoster encephalitis. The later appearance of a post-infectious acute inflammatory demyelinating polyradiculoneuropathy further confirmed the suspect. This case stresses the importance for not discarding a priori neurological diagnoses when facing with psychiatric patients, especially when atypical details are present.

KEY WORDS: encephalitis, varicella-zoster virus, differential diagnosis, psychiatric onset.

RIASSUNTO. Riportiamo qui il caso della signora O., una paziente di 57 anni giunta alla nostra attenzione per un disturbo dell’umore associato a sintomi psicotici e strane lesioni cutanee, la cui interpretazione ha poi portato a formulare il sospetto di encefalite da virus varicella-zoster. La successiva comparsa di una poliradicolonevrite demielinizzante infiammatoria acuta post-infettiva ha ulteriormente rafforzato tale sospetto. Questo caso sottolinea l’importanza di non scartare a priori diagnosi neurologiche quando si affrontano pazienti psichiatrici e specialmente nel caso in cui siano presenti dettagli di atipicità.

PAROLE CHIAVE: encefalite, virus varicella-zoster, diagnosi differenziale, esordio psichiatrico.

CASE REPORT

Mrs. O. is a 57-year-old woman holding a university degree and mother of two sons; she works as manager’s secretary and her past medical history is unremarkable for either psychiatric or any other type of disease. She came to the ER accompanied by her husband because of few days of a sudden and severe depressive symptomatology including thoughts of death and refusal of food and beverages; the family connected this behavior to a very important emotional stress period caused by work-related problems and by a conflicting relationship with her daughter. Her thoughts appeared sometimes delusional centered on ruin ideas and other depressive themes. Moreover, sometimes she presented very short episodes of confusion during which she displayed depersonalization, identification of herself with her mother, recalling specific biographic details and showing short moments of spatial and temporal disorientation. These latter moments presented unexpectedly, giving the impression of a discontinuous process, within a general frame of mood dysfunction with good enough orientation competences, both in time and space. She was hospitalized in the psychiatric ward and underwent to blood routine tests, neurological examination and a brain MR scan, without showing any significant abnormality. Notably, she presented a maculopapular rash following a T5-T6 dermatomal distribution on the right side of the trunk, later becoming vesicular and that was compatible with
myelinating polyradiculoneuropathy (AIDP) was formulated. A further LP did not show a clear pattern of albumino-cytological dissociation (16 cells/µl, proteins 65 mg/100 ml, normal glucose) and oligoclonal bands were present in the CSF but not in the corresponding plasma sample. The EMG was compatible with an axonal involvement. The patient received a course of IV Ig and was started on gabapentin. Due to the plasma increase of the neoplastic marker CA19.9, a total-body \(^{18}\)F-FDG PET scan was performed searching for malignancies, documenting a focal area of increased captation at the transverse colon level subsequently demonstrated to be an adenoma at the colonoscopy followed by biopsy. PET hypocaptation was shown at the cortical level within the frontal lobes. Subsequent controls demonstrated the normalization of the CA19.9 levels. At that moment, psychopathological conditions of Mrs. O. were characterized by partial regression of the mixed mood disorder with psychotic symptoms, but paranoid delusions, focused on her job and family were still present, along with poor critic, depression (that sometimes switched in euphoric mood) and detachment from the usual environmental context. The LP control showed: 10 mononuclear cells/µl, proteins 46 mg/100 ml, normal glucose, positive oligoclonal bands). CSF PCR viral tests came back completely negative. The ENG follow-up documented a picture of axonal dysfunction with minor variations with respect to the previous exam. Glove-and-stocking paresthesias ameliorated increasing gabapentin dose and fluvoxamine was reintroduced. Thirty days later Mrs. O.’s strength deficits were improving steadily and she was transferred to the rehabilitation wards for continuing physiotherapy. The psychiatric symptoms had now completely receded.

**DISCUSSION**

Viral encephalitides often present with psychiatric symptoms including psychosis and mania (1,2); only rarely the presenting picture might represent a challenge in the differential diagnosis since prominent focal neurological deficits and unusual clusters of psychiatric symptoms are common. Age represents also an important clue, since psychotic breaks in older adults might warrant further searches for an underlying “organic” brain disease. In these cases, the subsequent neuroimaging often solves the conundrum since clearly demonstrates structural anomalies pointing out to the correct diagnosis of the mimic. This was not our case since the MR scan showed only minor and aspecific alterations. Nevertheless, middle age and the ab-

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The presence of previous psychiatric manifestations argued for further search and both the EEG and, especially, the LP were compatible with the diagnosis of encephalitis. Surprisingly, viral search came back negative although the concurrent presence of a Herpes Zoster skin lesion suggests the possible involvement of VZV. LP timing and the initial valacyclovir course might have been crucial, in this case, in influencing PCR results. The absence of MR alterations is still compatible with VZV encephalitis, although discrete subcortical non-enhancing spherical lesions that eventually coalesce developing enhancement and spreading to the gray matter are commonly found. Moreover, MR abnormalities have also been observed in patients with herpes zoster presenting without clinically apparent CNS involvement. Accordingly with the hypothesis of a viral episode, the following AIDP is compatible with a post-infectious disimmune etiology, and Guillain-Barré syndromes post-VZV infection have already been reported. Moreover, also VZV involvement in isolated psychiatric cases has already been reported: McKenna and collagues described the case of a 38-year old woman with a history of panic disorder and dysthymia and with a previous single manic episode that developed prominent mental changes and manic symptoms. Six weeks before she had been treated for a herpes zoster ophthalmicus, and both the subsequent EEG and LP were compatible with the diagnosis of VZV encephalitis. Although the CSF cell count was only mildly elevated with respect to our case (20 cells/µl), the CT scan demonstrated a compatible lesion within the right temporo-parietal region. Notably, this patient presented with a positive history of manic disorder that raised the differential diagnosis and/or mania with psychotic symptoms that can persist in the fact that a careful neurological examination was crucial for the differential diagnosis, as they are less common in pure psychic conditions where orientation and memory functions are usually maintained. In fact, in the case of Mrs. O, the impression of an underlying neurological disorder was specifically raised only after careful noticing and discussing the fast cycling features of these intermittent moments of disorientation, since the patient few minutes later returned back every time to a state of standard orientation in time and space.

Nevertheless, our patient clearly claims the attention of the psychiatrist towards cases of isolated depression and/or mania with psychotic symptoms that can be initially overlooked and tagged as “non-organic”, delaying the necessary therapies and diagnostic tests. On the other hand, a point of interest of this case consists in the fact that a careful neurological examination and the consultation with a neurologist were performed immediately, but were both not informative, with the presence of neurological signs only later on. This might suggest that special attentions might be always justified in atypical psychiatric presentations, since it can be difficult to diagnose them, at least at the onset, as neurological, for example due to the expression of an encephalitic process.

REFERENCE