

Depression and cerebral strokes - own experience

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Some cerebral strokes cause an impairment of motor, intellectual and cognitive functions. This was the cause that cerebral vascular diseases became a social problem. In recent years great interest has been aroused by emotional reactions occurring in the course of cerebral strokes [1]. Depressive reactions described in literature as post-stroke depression became the subject of many reports. Already in 1921, Kraepelin reported frequent occurrence of depressive states in the course of cerebral ischaemic strokes. The reports by Blenler in 1951 also demonstrated that after cerebral infarcts a condition of melancholia can appear. A number of studies confirmed that emotional reactions and behaviour disturbances are the manifestation of focal damage of the central nervous system. Robinson and Starkstein demonstrated that depression developed more frequently and was more intense in patients with ischaemic focus in the anterior part of the left frontal lobe cortex or in the basal nuclei. The same authors proved higher incidence of depression in the cases of infarcts in the middle cerebral artery region than in the case of their location in regions supplied by the vertebrobasilar arteries. Sinyor et al. confirmed the fact of higher intensity of depression in patients with infarct focus in the frontal region. The occurrence of depression in case of cerebral strokes with aphasia remains still a significant problem. Benson in his paper on psychiatric aspects of aphasia suggested that aphatic speech disturbances may cause secondary and understandable depressive reactions. Starkstein and Robinson, on the basis of the American Psychiatric Association classification (DSM-III), distinguished two types of post-stroke depression: major depression and minor depression. Major depression is similar to endogenous depression. The occurrence of major depression is in a strong relation with the ischaemic focus location in the left cerebral hemisphere, in the frontal lobe or basal nuclei. On the other hand, minor depression may correspond to the criteria of dysthymic disorders. The occurrence of minor depression is connected with focal lesion location in the parieto-occipital region on the left, as well as the right sides.

Case report

Male patient B.G., aged 57 years, previously never received any psychiatric treatment. The patient was born after normal pregnancy and labour. His childhood was very good. He was the only child in the family. His parents were very quiet, considerate, affective, caring, hard working. At home warm and loving atmosphere was always present. In primary school and secondary school the patient achieved very good results. He was very friendly, not quarrelsome, maintaining close and cordial social contacts with his peers. Then, after obtaining his secondary school certificate, he studied with very good results and graduated from the Faculty of Economics. Since the graduation until now he has been working as chief accountant in a big trading company. In his work he has been liked by co-workers, friendly, hard working, dutiful. He failed to settle a family. He suffers from chronic impotence and does not want to make his future wife unhappy. He still lives with his parents who, in spite of elderly age, are in good mental and physical shape. The patient has never wanted to diagnose or treat his impotence. In spite of the fact that he failed to settle a family, he regards himself as a happy man. He has a girlfriend with whom he is in strong platonic love.

No mental diseases occurred in the patient's family. The patient denied any head trauma or loss of consciousness. Of serious somatic diseases, the patient has had for years fixed atrial fibrillation which he refuses to diagnose or treat.

The patient was hospitalized due to cerebral ischaemic stroke. The ischaemic focus was located in the anterior part of the left frontal lobe cortex. After discharge from hospital he came to the author of this paper. Detailed psychiatric examination revealed major depression of high intensity. The diagnosis was confirmed by the following tests:

- Hamilton Depression Scale
- Montgomery-Asberg Scale
- Beck Depression Self-Assessment Inventory

- DSM-III Scale
- CGI Scale

Laboratory tests:

- laboratory blood and urine analyses gave normal results
- ECG record demonstrated fixed atrial fibrillation with ventricular rate about 80 bpm,
- EEG record: normal,
- chest radiogram: normal,
- neurological examination: slight motor aphasia, trace right-sided hemiparesis, trace bilateral extensor plantar response,
- eye fundus examination: normal,
- cerebrospinal fluid analysis gave normal result,
- physical examination: completely arrhythmic heart function with about 82 bpm rate; besides that the physical examination gave normal results,
- result of magnetic resonance imaging of the head: by MRI examination numerous small ischaemic foci were visualized in the anterior part of the left frontal lobe cortex. The ventricular system and other fluid spaces were unchanged.

The author treated the patient with individual psychotherapy and oral sertraline from low doses up to 100 mg daily. Complete remission of the major depression was obtained.

Discussion

The author decided to treat the patient with sertraline in view of the very high safety of the drug [2]. Extrapyramidal symptoms after the drug are rare [3]. Extremely rare, isolated cases of catatonic syndromes after the drug were described worldwide [4]. Apart from depression treatment, the author intended to improve the quality of life of the described patient after his cerebral stroke. It is known [5] that sertraline improves the quality of life of

patients with respect to their energy, vitality, cognitive functions, social interactions, vivid reactions, behaviour in the place of work, coping at home, satisfaction with life and taking of sick-leaves.

In the described patient, sertraline evidently improved his quality of life with respect to most of the above mentioned aspects.

The author administered sertraline to the described patient in view of its safety in cardiac diseases. The patient has fixed atrial fibrillation. Other authors used the drug in patients after acute myocardial infarction [6].

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Դեպրեսիան եւ ուղեղային ինսուլտները. անձնական փորձից

I. S. Ռոշ

Հոդվածում հաստատվում է սերտրալին դեղամիջոցի արդյունավետությունը հետինսուլտային դեպրեսիայի

սիայի բուժման մեջ՝ մեկ հիվանդի օրինակի վրա:

Депрессия и церебральные инсульты – личный опыт

Л.Т. Рош

В статье показана высокая эффективность препарата сертралин в комбинированном психотерапевтиче-

ском лечении постинсультной депрессии на примере одного больного.