Neuro-Behçet's Syndrome: A Case Report
H Foyaca-Sibat, L Ibañez-Valdés

Abstract
We report a case fulfilling the diagnostic criteria of Behçet's disease (BD) with an intracerebral hemorrhage who improved from this cerebrovascular complication and remained free of BD's activity for more than two years after being treated traditionally. The authors believe it is an anecdotic report but herbal medicines probably can be useful in the management of some patients with this condition.

INTRODUCTION
Something very similar to the current process known as Behçet's disease (BD), Adamantiades-Behçet's Syndrome, Halushi-Behçet's Syndrome, Oculo-Bucco-Genital Syndrome, Touraine's Aphthosis, or Triple Symptom complex of Behçet was described by Hypocrates centuries ago and probably not by coincidence it was re-described in a ten years period by a Turkish dermatologist Hulusi Behçet in 1937. Most of the confirmed patients have been identified along the ancient Silk Road which extend from Eastern Asia and Middle East to the Mediterranean basin, and most of the papers presented on the 10th International Congress on Behçet's Disease held in Berlin during June 27-29, 2002 based on epidemiology, reported a higher prevalence of BD in those mentioned countries. Epidemiological findings suggest that both genetic and environmental factors influence the pathogenesis of the disease. BD is a rare and chronic condition of unknown cause that affects in young peoples the inner lining of the mouth and genitals and the small blood vessels all over the body including eyes and brain among others system, causing recurring mouth and genital ulcers; those sores can occur in the tongue, and on the inside of the lips and cheeks usually lasting for one to three weeks, the genital ulcers appear less often than the mouth sores and they are sometimes mistaken for herpetic lesions; skin involvement is also common. Uveitis and retinitis causing blindness can be present, also arthritis, peripheral vasculitis and neurological complications often called Neuro-Behçet's Syndrome (NBS). Clinical criteria for the diagnosis of BD, are summarized in Table I.

Table I: CRITERIA FOR THE DIAGNOSIS OF BEHÇET'S DISEASE

<table>
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<th>Finding</th>
<th>Definition</th>
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<tr>
<td>Recurrent oral ulceration (Ma)</td>
<td>Minor aphthous, or herpetic ulcers observed by the physician or patient, which have reappeared at least three times over a 12-month period.</td>
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<td>Recurrent genital ulceration (Ma)</td>
<td>Aphthous ulceration or scarring observed by the physician or patient.</td>
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<td>Eye lesions</td>
<td>Anterior uveitis, posterior uveitis, or cells in the vitreous on slit-lamp examination, or retinal vasculitis detected by an ophthalmologist.</td>
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<tr>
<td>Skin lesions (Ma)</td>
<td>Erythema nodosum observed by the physician or patient.</td>
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<td>Positive pathergy test (Ma)</td>
<td>Test interpreted as positive by the physician at 24 to 48 hours.</td>
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*For the diagnosis to be made, a patient must have recurrent oral ulceration plus at least two of the following findings: the absence of the other clinical explanations. (From the International Study Group for Behçet's Disease, 1990).

More than 55 percent of patients with NBS are positive for HLA-B51 allele; levels of circulating tumor necrosis factor alpha, interleukin-1 beta, and interleukin-8 have been reported to be elevated and their lymphocyte function is abnormal.

Pallis and Fudge, in 1956 and Wadia and Williams, in 1957,
described the clinical manifestations of NBS for the first time and they established three different types such as: 1) Brainstem disturbances, 2) Meningomyelitis, and 3) Confusional syndrome, dementia, Parkinsonism, pseudobulbar palsy and quadriplegia. Vascular complications as a result of vasculitis of the vasa vasorum or dural venous sinus thrombosis, intracranial hypertension, polymiositis, and peripheral neuropathy, spinal cord lesions, optic neuropathy, and vestibulocochlear involvement have been reported. In 5 to 50 percent of patients with BD a chronic and progressive involvement of the nervous system mainly in male patients in whom the disease began at an early age, are present. Neurological involvement is either caused by primary neural parenchyma lesion (Neuro-Behçet) or secondary to major vascular involvement (Vasculo-Behçet). The course is relapsing-remitting, secondary progressive or primary progressive and the most commonly affected area is the brain stem with other additional symptoms or signs, and hemispherical involvement with mental changes.

Factors suggesting a poor prognosis are repeated attacks, incomplete recovery, progressive disease course and high level of CSF leucocytosis during acute attack. Erectile dysfunction secondary to NBS is well known, but this condition without neurological involvement has been reported recently. Cerebrovascular complications in BD are unusual, however a few patients with ischemic stroke, cerebral vaculitis, subarachnoid hemorrhage and intracerebral hemorrhage have been documented, and published. In 2002, Kikuchi reported three cases of NBS presenting with intracerebral hemorrhaging and divided them into two groups: cerebrovascular or cyclosporine related. The limited number of patients reported is not enough for further considerations. The aim of this communication is to report our findings in one patient affected by NBS who improved after being treated traditionally.

REPORT OF A CASE

A 29 years-old male patient was born as a second child to healthy non-consanguineous parents from The Kingdom of Khosa and The Kingdom of Zulu. Pregnancy and birth were normal. His relatives referred a previous history of successfully treated pulmonary tuberculosis while he was working in a gold mine two years ago. They also said that he was on anti-epileptic treatment for recurrent right focal simple motor seizures of unknown cause and he was also taking “pills” for recurrent ulcers on his mouth and genital region. On the admission day the patient was brought by her parents to Umata General Hospital (tertiary neurological care services for 6, 4 million of peoples) and admitted in its male Stroke Unit in comatose stage. The family history was unremarkable. On examination some aphthous ulcerations on the tongue and gingival region are seen (Figure 1) also reddish bumps, pimples sores on both legs were present (Figure 2) some acneiform nodules all over the back, neck and face were also seen.

His head circumference was 57 cms, he was deeply unconscious his pupils isochoric and more reactive to light stimulation on the right side compare with the left, no deformation of the iris or signs of retinopathy were not found. Babinski sign and other motor signs on the right hemi body, ipsilateral central facial palsy, doll's eyes response and ciliospinal reflexes were present. Horizontal nystagmus was absent on calorice test. No signs of decerebrate or decorticate positioning were detected, and no other cranial nerves were involved. Cardio respiratory system was intact. CT Scan of the head showed an intraparenchymal hemorrhage on the left putamen region and associated processional edema (Figure 3).
other laboratory test doesn't show abnormalities. A diagnosis of *vasculo-nbs* was made. After the medical, physical, and supportive treatment the patient began to improve gradually and was discharged home seven weeks later walking with support. Unfortunately the skin lesions and recurrent ulcers did not improve remarkably in spite of treatment. At this point the patient went to traditional healer (sangoma) for treatment and after five months therapy with *vulindaba*: a combination of two powerful plants: *sutherlandia* and *leonotis* (figure 4), formulated by Sanusi Vusamazulu Credo Mutwa. After that course of herbal medicines apart from some irritation of the skin after shaving, no more signs of Behçet's activity for the past two years were observed.

**Figure 3**

![CT Scan of the brain shows an intracerebral hemorrhage and associated perileonial edema on the left fronto-parietal lobe.](image)

**Figure 4**

![Mashing a combination of flowers Sutherlandia (on the top) and Leonotis (bottom) etc. as part of the process dehybridation, distillation, extraction, and compounding.](image)

**COMMENTS**

Intracerebral hemorrhage is extremely rare vascular complication of NBS and this report should be considered as an anecdotic coincidence. BD is a very rare disease in Sub-Saharan Africa countries compared with its incidence and prevalence in patients of North Africa origin.

Apart from genetic factors other than HLA-B51 a linkage on chromosome 16 and 12 seems to be present in multicase families with BD along the ancient Silk Road countries; other findings related with -403 AA haplotype of the chemokine RANTES, -2516 AA, -2076 AA haplotypes of the MCP-1 chemokine, TNF-1031 allele, ICAMI 489*E variant, methylation of genes, TTbb phenotype, and MEVF mutations in patients with BD serve to support the immunogenetic mechanism in the pathogenic of BD. There was a general consensus among the immunological studies presented in the above-mentioned congress that the inflammatory reaction in BD has mainly a Th1 cytokine profile, therefore environmental conditions, nutritional aspects, and associated infections can play an important role in the pathogenesis of this process and its geographical distribution.

Current tendencies for treatment of BD are focusing on interferon and tumor necrosis factor-alpha, although pentoxifylline, cyclosporine, and azathioprine remain its validity.

In South Africa more than 75% of the population use traditional medicine on regular basis, those herbal medicines can be gathered in many regions and combined at home, can be bought from herbal sellers in urban areas, or even can be ordered by phone. This *Muti* created and used successfully by Sanusi Mutwa family for over hundred years for the treatment of all sorts of ailments such as: Depression, Stress, Cancer, Tuberculosis, Rheumatoid arthritis, Headache, etc. It is an appetite stimulant enhances well-being, it is also mild aphrodisiac, and also builds up the immune system, it is not only non toxic and with no adverse side effects it is also affordable to the peoples that need it most and have not other choice because of their extreme poverty. There is a general concern about the role played by Vulindaba in immunocompromised patients, and new alternative ways to fight HIV/AIDS are under discussion between sangomas’ populations.
The Behçet's Current Activity Index has been described elsewhere, and is a useful way for measurements the BD's outcomes; in our patient the absent of BD's activity for more than two years can be considered as a successful respond to herbal medication, however the marked geographical differences in disease expression, as well as possible ethnic and intercultural differences in disease impact among individuals from different geographical regions are obvious, therefore an evaluation of this results through a randomized, double-blind placebo trial in other countries before recommending its therapeutic use universally is required.

CORRESPONDENCE TO
Foyaca-Sibat H, Department of Neurology, University of Transkei. Private Bag X1. Umtata 5099 South Africa. Email: foyaca@intekom.co.za

References
Author Information

H. Foyaca-Sibat
Department of Neurology, University of Transkei

LdeF Ibañez-Valdés
Department of Family Medicine, University of Transkei