

Management of a HIV-infected patient with a psychiatric disorder

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Main complaint

- Mr M is a 30-year-old HIV+ man
- In his regular visit to his HIV physician:
 - for the last 8 months he feels low energy and some memory difficulties







Medical history

- HIV+ and HCV+ since 1992
- He has remained asymptomatic
- He started HAART in 2003
 - -CD4 = 212; viral load = 182,000
- After starting HAART:
 - CD4 ~600s and undetectable VL
- He lives alone and has a high-level job
- He is meticulous dresses impeccably







Current symptoms

- In the last 8 months he has felt a loss of energy and difficulties with memory
- He thought this was due to work-related stress in the last 2–3 years
- He started to increase the intake of cocaine and alcohol to get more energy and to sleep better.
 This was only useful for a short time
- Two vacations did not help







Differential diagnosis?

- 1. Substance use disorder
- 2. Endocrine disorders (hypothyroidism, hypogonadism, adrenal insufficiency)
- 3. Opportunistic diseases / CNS cancer
- 4. Cognitive disorder due to HIV and / or HCV encephalitis
- 5. Depression / anxiety

CNS = central nervous system







Which tests do we need?

- 1. General laboratory tests (haematology and biochemistry)
- 2. Hormones
- 3. Brain imaging
- 4. Mental health evaluation (by Psychiatry)
- 5. Anything else?







Results

- Complete blood count and liver function tests: wnl
- Thyroid function tests: wnl
- Testosterone levels:
 - Free testosterone: 10.1 ng/dL [10.5-55]
 - Total testosterone: 550 ng/dL [437-707]
- CD4 ~600/mm³ and undetectable VL
- Brain CT scan showed no significant changes

wnl = within normal limits; CT =







Medical intervention

- HAART was maintained
- Testosterone replacement initiated
- Patient referred to Psychiatry for mental health evaluation







Mental health evaluation (family history)

- Mother: somatic anxiety symptoms
 - Died of cancer 2 years ago
- Father: alcoholism
- One sister with anxiety disorders







Mental health evaluation (personal history I)

- Personality traits: anxious, excessive and obsessive thinking
- Lives alone
- Separated from his partner 1 year ago
- Short social network (isolated)
- Normal developmental history no learning disorders. Education through college and graduate professional school
- Highly qualified job and a high degree of responsibility







Mental health evaluation (personal history II)

- Adjustment disorder in 1992 (HIV diagnosis) and in 2003 (started with HAART)
- Alcohol and cocaine use for many years
- Occasional use of marijuana







Mental status examination

- Appearance: well developed, well dressed, good eye contact
- Oriented x 3
- Thoughts: coherent, goal oriented, content appropriate to affect
- Speech: not pressured or slowed
- Affect is somewhat anxious, increased difficulty with sleep and appetite, related to work stress
- Decreased sexual drive, related to work stress
- No evidence of psychotic thinking, no auditory or visual hallucinations, no delusions, not paranoid







Cognitive examination

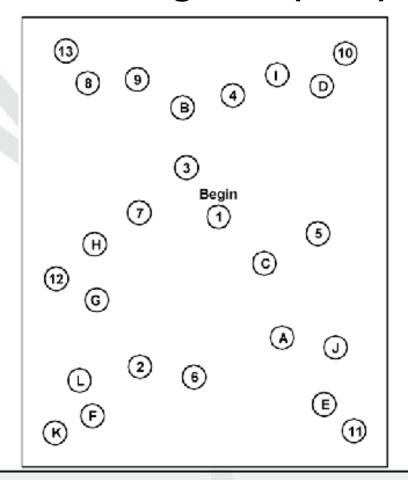
Test	Result
Memory 4 words	3/4, but 4/4 with cue
Serial 7s	OK
5 digits	Forward and backward
Trials A	OK
Trials B	2 errors
Judgment	Intact
Draw a cube	Intact
Clock	Intact
Word generation	Slow







Brief neuropsychological tests Trail Making Test (TMT)-B









Hospital Anxiety and Depression Scale

Zigmond AS, Snaith RP. The Hospital Anxiety and Depression Scale.

Acta Psychiatr Scand 1983;67:361–70

- Anxiety subscale: 3 (cut-off score = 10)
- Depression subscale: 6 (cut-off score = 10)







What recommendations would you expect to receive from the Psychiatrist?

- 1. Treat the alcohol/cocaine use disorder
- 2. Initiate testosterone replacement
- 3. Consider psychotherapy







Recommendations received from the Psychiatrist

- Treat the alcohol / cocaine use disorder
- Continue testosterone replacement
- Initiate psychopharmacological treatment of sleep disorders







Follow-up: 7 months later

- No substance use (either alcohol or cocaine)
- Energy improves during 2 months of testosterone
- However:
 - complains of feeling depressed, hopeless, anhedonic
 - increased isolation
 - poor appetite, sleep remained disturbed
 - hopeless and mild suicidal thoughts
 - difficulties with memory and concentration persist







 How reliable are the traditional signs and symptoms of depression in people with HIV?







What symptoms should be given more emphasis?







Depression in HIV: diagnostic criteria

SOMATIC SYMPTOMS (of depression)

- Poor appetite or changes in weight
- Loss of energy and fatigue
- Psychomotor retardation
- Insomnia
- Diminished ability to think or to concentrate

ENDICOTT'S SUBSTITUTIVE CRITERIA

- Tearfulness or depressed appearance
- Social withdrawal, decreased talkativeness
- Brooding, self-pity, pessimism
- Lack of reactivity, cannot be cheered up







Hospital Anxiety and Depression Scale

Zigmond AS, Snaith RP. The Hospital Anxiety and Depression Scale.

Acta Psychiatr Scand 1983;67:361–70

- Anxiety subscale: 7 (cut-off score = 10)
- Depression subscale: 17 (cut-off score = 10)







New diagnosis: Major depression

 The psychiatrist recommends an antidepressant and psychotherapy







Which antidepressant?

- 1. Paroxetine
- 2. Mirtazapine
- 3. Fluoxetine
- 4. Sertraline
- 5. Citalopram
- 6. Escitalopram

- 7. Venlafaxine
- 8. Duloxetine
- 9. Bupropion
- 10.Tricyclics







Follow-up: 2 months later

- Citalopram 20 mg once daily has improved depression, concentration and memory
- Final diagnoses:
 - Alcohol and cocaine use disorder
 - Hypogonadism
 - Major depression







Follow-up: 2 years later

- Mr M arrives very late to his appointment unusual for him
- He looks unkempt
- He seems distracted
- New complaints:
 - Difficulty concentrating at work
 - Has to re-read documents over several times
 - Fatigues easily when doing mental work







Differential diagnosis

- Alcohol?: No
- Cocaine?: No
- Depression?: No
- Testosterone?: Normal
- Liver function tests, thyroid and HIV tests?: No changes
- Then?







What would your next consideration be for this patient?

- 1. Increase antidepressant medication
- 2. Refer patient for further psychiatric testing
- 3. Request drug screening to confirm patient reports
- 4. Other?







Plan for Mr M: Treatment

- ARV that cross the blood-brain barrier
- Ensure adherence
- Avoid alcohol, drugs, sedating medications
- Stimulants: methylphenidate
- Environmental interventions
- Rehabilitation
- Family, work, friends
- Support groups, education







Summary

- Psychiatric problems are common among patients with HIV infection and increasingly recognized in clinical practice
 - previous psychiatric illness
 - medical comorbidities
 - medication side effects
 - direct effect of HIV on the brain (HAND)



