

FRONTAL BEHAVIORAL INVENTORY (FBI)

NAME:
AGE:
DIAGNOSIS:
DATE:
CAREGIVER:
EXAMINER:

Explain to the caregiver that you are looking for a change in behavior and personality.
Ask the caregiver these questions in the absence of the patient. Elaborate if necessary.
At the end of each question, ask about the extent of the behavioral change, and then score it according to the following:

0	1	2	3
(none / never)	(mild / occasional)	(moderate / often)	(severe / most of the time)

Negative Behavior Score: Total of 1 – 12: _____

Disinhibition Score: Total of 13-24 : _____

Total Score: _____

References:

Kertesz, A., Davidson, W., & Fox, H. (1997). Frontal behavioral inventory: diagnostic criteria for frontal lobe dementia. *Can J Neurol Sci*, 24(1), 29-36.

Kertesz, A. (1998). The quantification of behavior in frontal lobe dementia. In A. Kertesz & D. G. Munoz (Eds.), *Pick's disease and Pick complex* (pp. 47-67). New York: Wiley & Sons, Inc.

Kertesz, A., Nadkarni, N., Davidson, W., & Thomas, A. W. (2000). The Frontal Behavioral Inventory in the differential diagnosis of frontotemporal dementia. *Journal of the International Neuropsychological Society*, 6(4), 460-468.

Kertesz, A., Davidson, W., McCabe, P., & Munoz, D. (2003). Behavioral quantitation is more sensitive than cognitive testing in frontotemporal dementia. *Alzheimer Disease & Associated Disorders*, 17(4), 223-229.

Marczinski, C. A., Davidson, W., & Kertesz, A. (2004). A longitudinal study of behavior in frontotemporal dementia and primary progressive aphasia. *Cogn Behav Neurol*, 17(4), 185-190.

Negative Behavior Questions:

1. **Apathy:** Has s/he lost interest in friends or daily activities or is s/he interested in seeing people or doing things?
0 1 2 3
2. **Spontaneity:** Does s/he start things on his/her own, or does s/he have to be asked?
0 1 2 3
3. **Indifference, Emotional Flatness:** Does s/he respond to occasions of joy or sadness as much as ever, or has s/he lost emotional responsiveness?
0 1 2 3
4. **Inflexibility:** Can s/he change his/her mind with reason or does s/he appear stubborn or rigid in thinking lately?
0 1 2 3
5. **Personal Neglect:** Does s/he take as much care of his/her personal hygiene and appearance as usual, or does s/he neglect to wash or change his/her underwear?
0 1 2 3
6. **Disorganization:** Can s/he plan and organize complex activity or is s/he easily distractible, impersistent, or unable to complete a job?
0 1 2 3
7. **Inattention:** Does s/he pay attention to what is going on or does s/he seem to lose track or not follow at all?
0 1 2 3
8. **Loss of Insight:** Is s/he aware of any problems or changes in behavior, or does s/he seem unaware of them or deny them when discussed?
0 1 2 3
9. **Logopenia:** Is s/he as talkative as before or has the amount of speech significantly decreased?
0 1 2 3
10. **Semantic Dementia:** Does s/he ask what words mean, has trouble comprehending words, and/or objects, or does s/he know the meaning of words?
0 1 2 3
11. **Aphasia and Verbal Apraxia:** Does s/he make language or pronunciation errors or has s/he developed stuttering or repeating sounds recently?
0 1 2 3
12. **Alien Hand and/or Apraxia:** Has s/he developed clumsiness, stiff hand, inability to use utensils or appliances, or does a hand interfere with the other, or behaves as if it did not belong, or can s/he use both hands as before?
0 1 2 3

Negative Behavior Score: Total of 1 – 12: _____

Disinhibition Questions:

13. **Perseverations, Obsessions:** Does s/he repeat or persevere actions or remarks? Are there any obsessive routines or behaviors, or has s/he always been a creature of habit?
0 1 2 3
14. **Irritability:** Has s/he been irritable, short-tempered, or is s/he reacting to stress or frustration as s/he always had?
0 1 2 3
15. **Excessive Jocular:** Has s/he been making jokes excessively or offensively or at the wrong time, or has s/he always had a jocular manner or a quirky sense of humor?
0 1 2 3
16. **Impulsivity/Poor Judgment:** Has s/he been using good judgment in decisions, spending or driving, or has s/he acted impulsively, irresponsibly, neglectfully or in poor judgment?
0 1 2 3
17. **Hoarding:** Has s/he started to hoard objects or money excessively or has her/his saving habits remained unchanged?
0 1 2 3
18. **Inappropriateness:** Has s/he kept social rules or has s/he said or done things outside what are acceptable? Has s/he been rude, or childish?
0 1 2 3
19. **Restlessness/Roaming:** Has s/he been pacing, walking, driving excessively or is the activity level normal?
0 1 2 3
20. **Aggression:** Has s/he shown aggression, or shouted at anyone or hurt anyone physically or is there no change in this respect?
0 1 2 3
21. **Hyperorality:** Has s/he been drinking or eating excessively anything in sight, or developing food fads, or even putting objects in his/her mouth, or has s/he always had a large appetite?
0 1 2 3
22. **Hypersexuality:** Has sexual behavior been unusual or excessive? This could include remarks or undressing, or is there no change in this respect?
0 1 2 3
23. **Utilization Behavior:** Does s/he seem to need to touch, feel, examine, or pick up objects within reach and sight, or can s/he keep his/her hands to him/herself?
0 1 2 3
24. **Incontinence:** Has s/he wet or soiled his or herself or does s/he have problems that can be explained by urinary infection or childbirth/prostate?
0 1 2 3

Disinhibition Score: Total of 13-24 : _____

Total Score: _____