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# ACADEMIA INVESTIGATION OF THE LEGALIST OF THE

# Pathological Stealing and Antisocial Behavior Associated with Fronto-Temporal Dementia

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The behavioral variant of fronto-temporal dementia (bv-FTD) is the second most frequent form of pre-senile dementia, following Alzheimer's disease among people below the age of 65 years and affects the frontal lobes, temporal lobes, or both.

Estimated prevalence: 15-22:100,000 in the age group between 45 and 65 years

Male = female; Symptoms onset is usually before the age of 65 years: mean age = approximately 58 years

The underling pathology invariably leads to focal atrophy of frontal and temporal lobes and is referred to as frontotemporal lobar degeneration (FTLD)

# **Main Behavioral Symptoms**

**Progressive change in personality** 

Emotional and cognitive dysfunction: lack of empathy, tactless

**Transgression of social norms:** compulsive and uninhibited behavior (impulsive actions, socially embarrassing)

**Apathy:** inertia, reduced motivation, lack of interest in previous hobbies, social isolation **Pathological stealing** (inability to resist stealing unneeded objects of insignificant value)

# **Diagnosis**

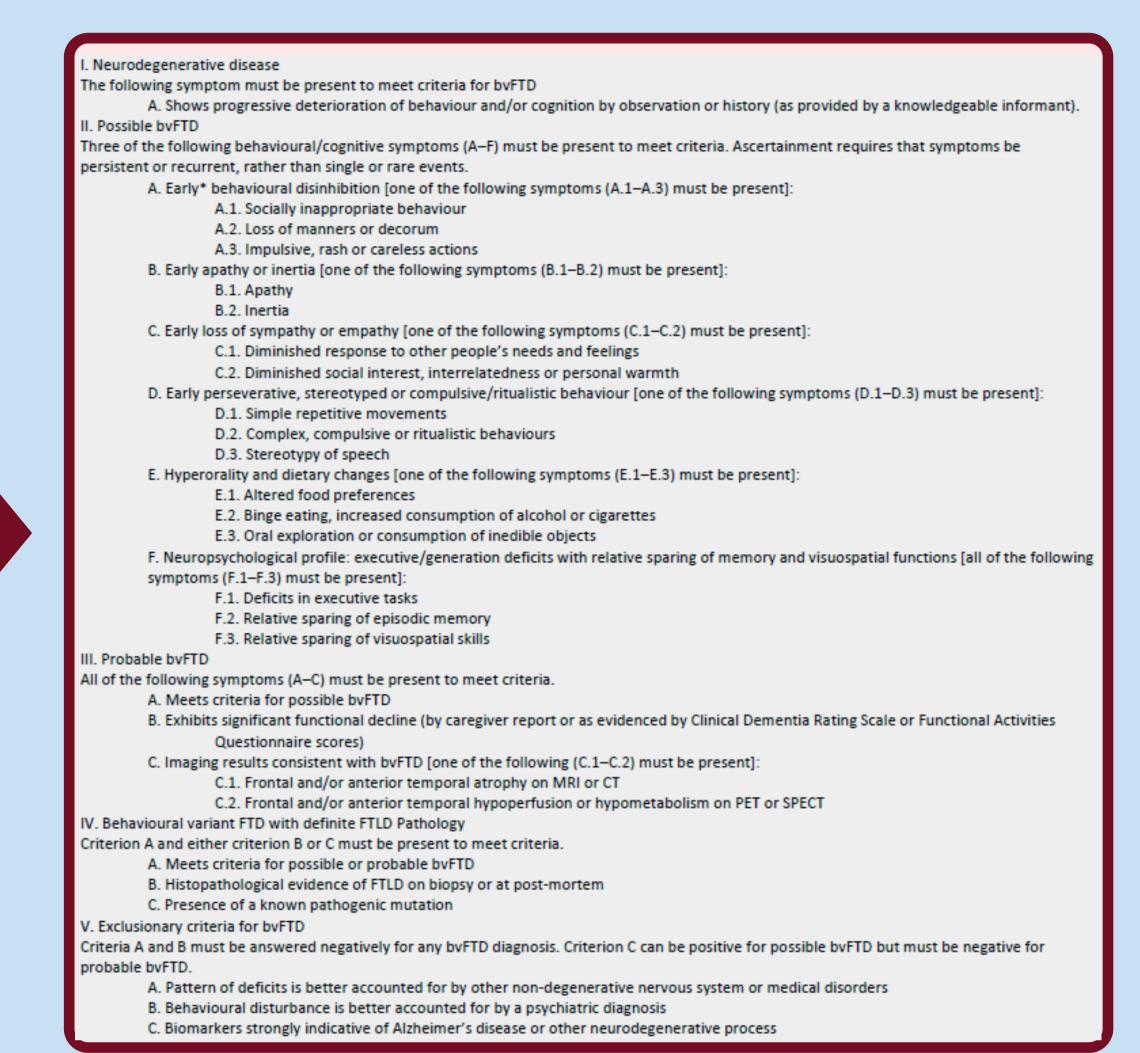
Tab. 1 - International consensus criteria for behavioral variant FTD published in 2011, free online (http://www.theaftd.org/wp-content/uploads/2009/02/Table-3-International-consensus-criteria-for-behavioural-variant-FTD.pdf)

# Pharmacological treatment

Serotonergic antidepressants: reducing behavioral disturbances, in particular dishinibition, apathy, repetive behaviors, sexually inappropriate behavior, hyperorality

Antipsychotics: commonly prescribed to treat disinhibition, agitation, and psychosis

Non-pharmacological interventions: identified by a multidisciplinary team for supporting patients' engagement in activities to ensure them an optimal quality of life



# **Case Report**

Italian 50-years-old man. Regular life until 2010: married, had a daughter, had a job and was described polite and well integrated

# In 2010 some critical events occoured:

he lost his job

his father in law died (he was particularly attached) his wife had a serious illness

# He began to show:

- mood changes: alternation of depression and hypomania
- emotional detachment from his family, blunting of affect
- significant weight loss
- apathy, inertia, reduced motivation, poor self-care
- lack of interest in his prior activities and social isolation
- lack of empathy, tactless
- compulsive hoarding (of components of computer)
- disinhibition, impulsive behavior (eg.reckless driving)
- memory deficits
- executive dysfunction
- alternation of fits of anger and excessive euphoria

He began stealing objects (components of computer), without concern for witnesses and without premeditation or concern for resulting legal action.

# WAIS-R test: middle-lower IQ level

PET exam: bilateral superior anterior and middle frontal hypometabolism, including inferior frontal gyrus and opercula

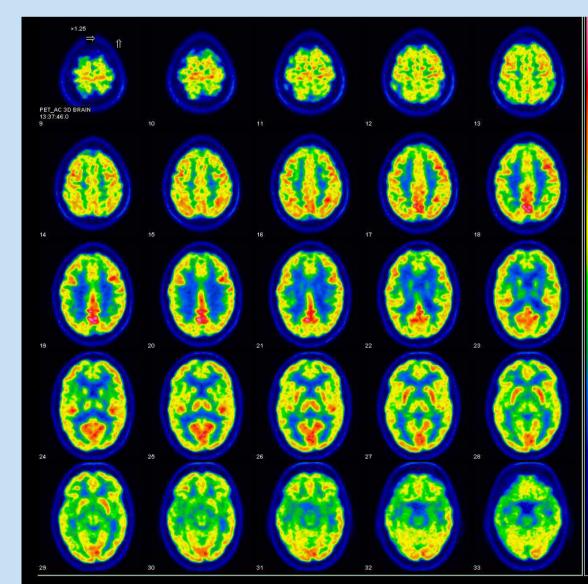


Fig.1
PET Scan
Bilateral superior
anterior and
middle frontal
hypometabolism
including inferior
frontal gyrus
and opercola.

# **Diagnosis:**

neurodegenerative progressive disease, defined as frontotemporal dementia (FTD) with executive dysfunction, behavior's anomalies and kleptomania

Charged by the Police with attempted robbery.
The Court asked for a psychiatric evaluation,
analyzing the effect on behavior from his neurodegenerative disease.

# **Mental examination**

- Deficits in attention and concentration
- Simple speech, poor in terms
- Affect not always appropriate (not worried about his clinical and juridical situation)
- Intellectual impairment
- Dyscalculia (difficult in simple operations as addition or subtraction)
- Poverty of thought
- Deficit in short and long-term memory
- Reduction of his capacity for critical analysis and judgment (did not fully realize the severity and the possible consequences of his illness)

Diagnosis: Frontotemporal dementia with executive dysfunction, behavior's anomalies and kleptomania

His wife illness, his job loss and the death of his father in law may have played a role in unmask and make manifest early symptoms of frontotemporal dementia, which usually has a slow and constant evolution.

Therapy: Quetiapine 100 mg/die (a short-acting atypical antipsychotic)

Valproic acid (VPA, valproate) 800 mg/die (a mood-stabilizing drug)

Reduction of impulsive behavior and irritability. He appeared peaceful and cooperative, he improved self-care and consideration of his family. No more episodes of kleptomania since June 2013

The man was considered not guilty for reason of mental insanity (Frontotemporal dementia with executive dysfunction, behavior's anomalies and kleptomania)

As far as he continues the pharmacological treatment and psychological support, he is considered not socially dangerous