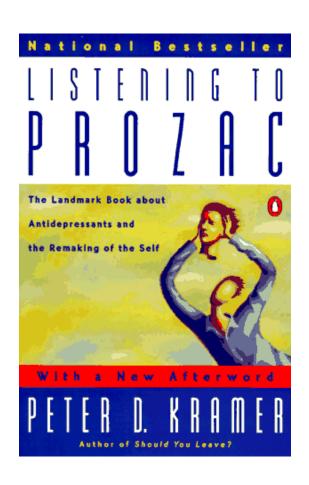
# Neuroethics Learning Collaborative Brain enhancement II: Mood and Personality enhancement

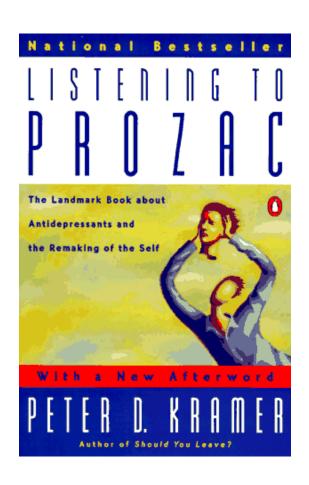
- Definition: Revisiting therapy vs enhancement
- SSRIs (how) do they work as enhancers?
- Beyond SSRIs: Other drugs that lift mood and brighten personality
- Ethical, legal and social issues

## Listening to Prozac



"The self, and how it fares in a world where personality is understood as 'biological' and subject to biological influence, is a central issue for our time... Who are we, if we can be so altered by medication? And why should the medicated self on occasion feel more 'true' than the unmedicated?"

## Listening to Prozac



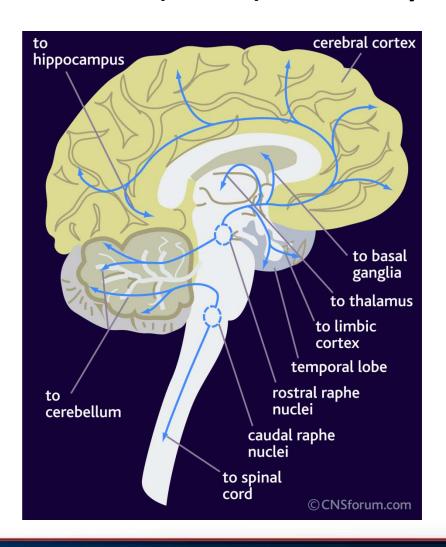
Not promoting SSRI for mood/personality enhancement

'Enhancement'? Pts not hunky dory

 fuzzy and moving line between therapy and enhancement

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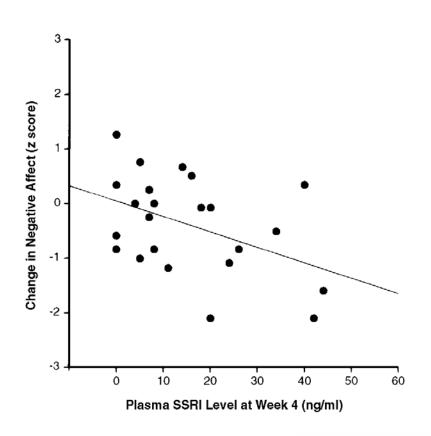
### SSRIs – (how) do they work as enhancers?

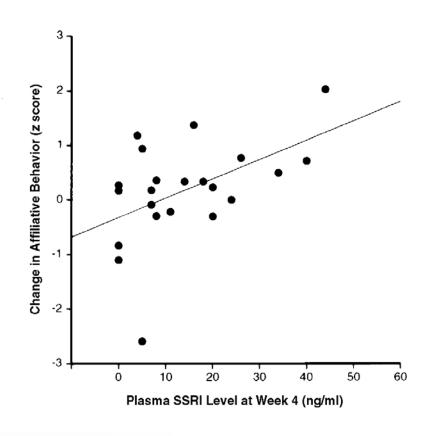


- Serotonin reuptake
- Mood effects downstream
- More effective for severe than mild depression
- But do affect mood and behavior in normal people

# paroxetine in healthy normal Ss

Knutson et al (1998) Am J. of Psychiatry





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# Mother's little helpers

- 1950's-1960's
- Tranquilizers, amphetamine
- Treat ups and downs of life
- Doctors turn away in 70's because of addiction



Syndromes of the Sixties

# The battered parent syndrome

She's the paradox of our age. Compared to her mother, she has more education, more usable income and more labor-saving devices. Yet she is physically and emotionally overworked, overwrought and—by the time you see her—probably overwhelmed.

What went wrong? Is parenthood something other than the rosy fulfillment pictured by the women's magazines? Is anxiety and tension fast becoming the occupational disease of the homemaker?

Some say it's unrealistic to educate a woman and then expect her to be content with the Cub Scouts as an intellectual outlet.

Or to grant that she is socially, politically and culturally equal, while continuing to demand domestic and biological subservience.



Or to expect her to shoulder the guilt burden of this child-centered age without unraveling around the emotional edges.

Or to compete with her husband's job for his time and involvement.

But whatever the cause, the consequences—anxiety, tension, insomnia, functional disorders—fill waiting rooms. Sometimes it helps to add 'Miltown' to her treatment—to help her relax both emotional and muscular tension. It's no substitute for a week in Bermuda, or for emotional readjustment. But it will often make the latter easier for her, as well as for the physician.

And 'Miltown' has been doing just that—for a dozen years now—with substantial success.

Indications: Effective in relief of anxiety and tension states; adjunctively when anxiety may be causative or disturbing factor. Fosters normal sleep through anti-anxiety and muscle-relaxant properties.

Contraindications: Previous allergic or idiosyncratic reactions to meprobamate. (Brief summary of prescribing information is continued on next page.)

Wallace Pharmaceuticals/Cranbury, N.J.

MILTOWN (MEPROBAMATE) when reassurance is not enough

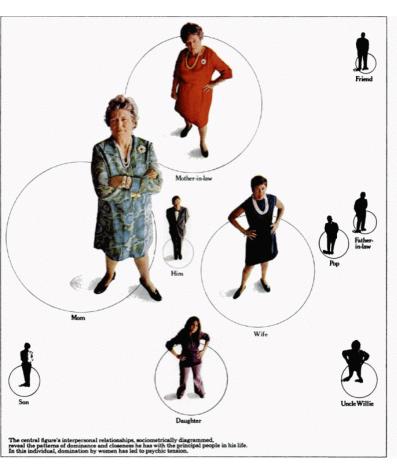


#### why is this woman tired?

She may be tired for either of two reasons:

- because the is physically overworked. If this is the case, you prescribe rest,
   because rest is the only core for this kind of physical tiredness.
- because she is mentally "done in". Many of your patients—particularly housewives—are crushed under a load of dull, routine dulies that leave them in a state of mental and emotional fatigue. For these patients, you may find "Dexedrine" an ideal prescription. 'Dexedrine will give them a feeling of energy and well-being, renewing their interest in life and living. Dexedrine\* (dextro-ampletamine sulfate, S.K.F.) is available as tablets, citic, and Spossule\* capsales (sustained release capsules, S.K.F.) and is manufactured by Smith, Kline & French Laboratories, Philadelphia.

\*T.M. Reg. U.S. Far. Off. Pagent Applied For.



#### Women dominate his universe

#### psychic tension can rule his life

He doesn't understand the source of his psychic tension. But you do. He relates well to women with domineering traits. But not to men. Not even his own son.

Whenever psychic tension is a significant component in the clinical profile, consider the use of Valium (diazepam). On proper maintenance dosage, Valium can help reduce the psychoneurotic patient's tension—anxiety, apprehension, agitation, alone or with depressive symptoms—to more comfortable and adaptable levels. The most commonly reported side effects are drowsiness, fatigue and ataxia.

For your passive-dependent, tension-ridden patient dominated by women—and for countless other psychoneurotics—Valium may prove itself a helpful partner to your psychotherapeutic skills.

Please see last page of this advertisement for prescribing information.

for the relief of psychic tension in psychoneurotic states

Valium<sup>o</sup> (diazepam)

2-mg, 5-mg, 10-mg tablets t.i.d. and h.s.



By relieving psychic tension, it can help:

ease patients into therapy, lessen emotional stress reaction to crisis situations, improve communication, reduce tension-induced insomnia and fatigue, relieve stress-induced psychosomatic symptoms, support the patient between therapeutic sessions.

Before prescribing, please consult complete product information, a summary of which

Indications: Tension and anxiety states; somatic complaints which are concentiants of emotional factors; psychoneurotic states manifested by tension, anxiety, apprehension, fatigue, depressive symptoms or agitation; acutele agitation, tremor, delirium tremens and hallucinosis due to acute alcohol withdrawal; adjunctively in skeletal muscle spasm due to reflex spasm to local pathology, spasticity caused by upper motor neuron disorders, athetosis, stiff-man syndrome, convulsive disorders (not for sole

therapy).
Contraindicated: Known
hypersensitivity to the drug.
Children under 6 months of age.
Acute narrow angle glaucoma.

Children under 6 months of age. Acute narrow angle glaucoma. Warnings: Not of value in psychotic patients. Caution against hazardous occupations requiring complete mental alertness. When used adjunctively in convulsa. When used adjunctively in convulsa. Fequency and for severity of grand mal seizures may require increased dosage of standard anticonvulsant medication; abrupt withdrawal may be associated with temporary increase in frequency and/or severity of seizures. Advise against

simultaneous ingestion of alcohol and other CNS depressants. Withdrawal symptoms have occurred following abrupt discontinuance. Keep addictionprone individuals under careful surveillance because of their predisposition to habituation and dependence. In pregnancy, factation obtained in the proper surveillance of the potential benefit against possible hazard.

hazard.

Precautions: If combined with other psychotropics or anticulty anticorvulsants, consider carefully anticorvulsants, consider carefully applicated by the state of the

oversedation.

Side Effects: Drowsiness, confusion, diplopia, hypotension, changes in libido, nauses, fatigue, depression, dysarthria, jaundice, skin rash, ataxia, constipation, headache, incontinence, changes is aslivation, slurred speech, tremor, vertigo, urinary retention, blurred acute hyperexcited states, anxiety, hallucinations, increased muscle spasticity, insomnia, rage, sleep

disturbances, stimulation, have been reported; should these occur, discontinue drug. Isolated reports of neutropenia, jaundice; periodic blood counts and liver function tests

blood counts and liver function tests advisable during long-term therapy. Dosage: Individualize for maximum beneficial effect. Adults: Tension, anxiety and psychonocustates, 2 to 10 mg b.i.d. to, 1.d.; alcoholism, 10 mg t.i.d. or, 1.d.; alcoholism, 10 mg t.i.d. or, 1.d. or

months).

Supplied: Valium\* (diazepam)
Tablets, 2 mg, 5 mg, and 10 mg;
bottles of 100 and 500. All strengths
also available in Tel-E-Dose<sup>T.M.</sup>
packages of 1000.



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# Ethical, legal and social issues

Safety, Fairness and Freedom, as with CEs Personhood, Identity and Authenticity

# Ethical, legal and social issues

Safety, Fairness and Freedom, as with CEs Personhood, Identity and Authenticity "Resistance is futile"