Tianeptine and Kratom
Objectives

- Explain the history and origins of Tianeptine
- Describe the adverse effects of Kratom use
Tianeptine
Tianeptine

Marketed as:
• Stablon
• Coaxil
Tianeptine

Marketed in 15 European counties and 66 countries worldwide
Tianeptine

Online marketing - different
“Boost working memory”
“Improve mental clarify”
Tianeptine

History

• Discovered and patented in 1960s by the French society of medical research, but for many decades mechanism of action was unknown
Tianeptine

Metabolism- β oxidation of side chain
• 66% eliminated by kidneys
• ½ life 2.5 hours
• No adjustments in liver failure
Tianeptine

Toxicity

• Respiratory depression – death
• Considered initially a rare, if not unheard of problem, as abuse of this medication was felt to be < 0.3%
Mechanism of Action

• First reported mechanism of action was felt to be increased serotonin reuptake which was opposite of SSRI
In 2014 the article, “The atypical antidepressant and neurorestorative agent tianeptine is a μ-opioid receptor agonist” showed:

• Mu activation was likely the initial molecular event
• Possible effects to delta receptor also
• Indirectly modulates glutamate (excitatory)
Tianeptine

“Our data are also in agreement with growing evidence regarding the importance of the opioid system in depression, anxiety and stress-related disorders.”
Tianeptine

Tianeptine, an atypical pharmacological approach to depression

“A noteworthy fact is that tianeptine, despite its affinity for these receptors, did not cause tolerance, as it does not lose its efficacy after continued treatment, or physical dependence, as after suppression or administration of naloxone no withdrawal syndrome was observed. These two characteristics clearly differentiate tianeptine from the other opioids, such as morphine.”
Conflicts of Interest

• C. Alamo has collaborated in studies on training and information through presentations at scientific events for healthcare workers sponsored by Adamed, Exeltis, Janssen, Lundbeck, Normon, Otsuka, Pfizer, Sevier, Zambon.

• P. García-García works in the Medical Department of Exeltis Healthcare S.L.

• The other authors have no conflict of interests to declare.
Tianeptine

**Tianeptine: Why has it not been classified as a narcotic in Spain?**

“In short, tianeptine is a drug new to Spain, but it is one that has raised numerous issues elsewhere for years. Compared to other antidepressants, it does not present any advantages with respect to either efficacy or convenience.”
Tianeptine, antidepressant with positive benefit/risk

Summary of letter: Calabozo does not know what he is talking about.
Tianeptine

Reddit- the source of all knowledge

• Tianeptine sodium- shorter acting 2.5 hours
• Tianeptine sulfate- longer acting 7.5 hours
Tianeptine

10-15 mg
- “Incredible mood enhancer”
- “Immediate antidepressant effect”
- “Did not feel impaired”

50-60 mg
- “Sedation”
- “Impaired my ability to drive”

85-90 mg
- “Nodded off”
- “Vivid dreams”
Another post:
“Tolerance is quick. Kills your ability to feel any other opioids, kills effectives of Kratom 100%”
Tianeptine

Low dose- recommended doses

• Nausea
• Constipation
• Headache
• Dizziness
High dose- when misused

• May mimic opioid OD- Naloxone effective
• Tolerance common
• NAS after delivery
Tianeptine

Withdrawal

• Really indistinguishable from opioids
Tianeptine

Use of Buprenorphine-Naloxone in the Treatment of Tianeptine Use Disorder
Kratom
Kratom
Kratom
Kratom

Red Maeng Da
(Mitragyna speciosa)
Powdered Leaf
Country of Origin: Indonesia
Elemental Prism LLC
3901 SE Edmon St. Portland, OR 97214 971-279-2505
Warning: Not for human consumption. For external use only. This product has not been approved by the U.S. Food and Drug Administration and is not intended to diagnose, treat, cure, or prevent any disease. See Import Alert 54-15 issued by the U.S. Food and Drug Administration for more information.

Red Thai
Powdered Leaf
Country of Origin: Indonesia
Net Wt: 1 kg

Willow Tree HERBS
Check out our sister store willowtreeherbs.com and save 10% off your first order when you use the promo code herbs2017
Kratom

- DEA - *Mitragyna speciose* (Rubiaceae family)
- Indigenous to Thailand, Malaysia, Myanmar, Papua New Guinea, others
Kratom

History

• Tree indigenous to Asia
• Used in religious practices and by workers for mild stimulation
• Member of the coffee family
• At times in history used to help taper people off of opioids
Kratom

- Formulations
  - Leaves
  - Powder
  - Pills
  - Leaves
  - Liquid extract/tinctures

- Route
  - Drink
  - Chew leaves
  - Smoke
  - Ingest pills
Kratom

• Adverse Effects
  • Dry mouth
  • Nausea
  • Weight loss
  • Constipation
  • Seizure
  • Hepatic injury
  • QT prolongation
  • Tolerance
  • Withdrawal
Kratom

• Withdrawal
  • Similar to opioid withdrawal
  • Starts at about 6-12 hours
  • Lasts about 2-3 days
References


