

Mentat[®] Syrup : Repurposing



What is REPURPOSING ?

Drug repurposing is the use of existing drug for a purpose other than its original intended use, including addition of new indications.

Advantages of REPURPOSING ?

- Adds new life to existing products
- Cost effective strategy:- saving time, cost & energy on new product development.
- Extends the brand value & legacy of the existing product.

PROPOSED REPURPOSING CONCEPT

- Increasing business potential by adding new in indications for Mentat Syrup

Mentat Syrup	Cognitive dysfunction in Paediatric Epilepsy
	Breath holding spells in children

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Mentat[®] Syrup

CURRENT INDICATIONS

Memory and learning disorders:

- Attention fluctuations
- Concentration impairment
- Language and learning disability

Behavioural disorders:

- Hyperkinetic states
- Asocial behaviour
- Aggressive behaviour
- Temper tantrums
- Enuresis
- Attention deficit hyperactivity disorder (ADHD)

Anxiety and stress-related anxiety disorders

Mental fatigue

As an adjuvant in epilepsy



Cognitive dysfunction in paediatric epilepsy (seizures)



Epilepsy is a brain condition that causes a child to have seizures. It is one of the most common disorders of the nervous system. A seizure occurs when one or more parts of the brain has a burst of abnormal electrical signals that interrupt normal brain signals.

Prevalence

- India contributes to 1/5th of global epilepsy burden.
- Average intellectual level of children with epilepsy is statistically lower than that of the general population
- 12-14% have IQ below 70.

Cognitive domains affected

- Speed of processing information
- Memory
- Vigilance
- Alertness
- Sustained attention
- Motor fluency

Treatment options

- Mostly non-pharmacological : special school programs, cognitive training etc.
- Nootropics: Piracetam

Breath holding spells in children

An episode in which the child involuntarily stops breathing and loses consciousness for a short period immediately after a frightening or emotionally upsetting event or a painful experience.

Breath-holding spells usually are triggered by physically painful or emotionally upsetting events.



1

- Common problem in paediatric population affecting at least 5% (up to 27% as per some Indian studies) , especially between ages 6 months to 6 years.

2

- Frightful experience, especially for parents as child turns pallid, loss of consciousness, stops breathing and turns pale/ blue.

3

- Not intentional and a result of involuntary reflex.
- Dysfunctional Autonomic Nervous System (ANS) also adds to the cause.

4

- No definite intervention currently available.
- Patient Education to handle the events

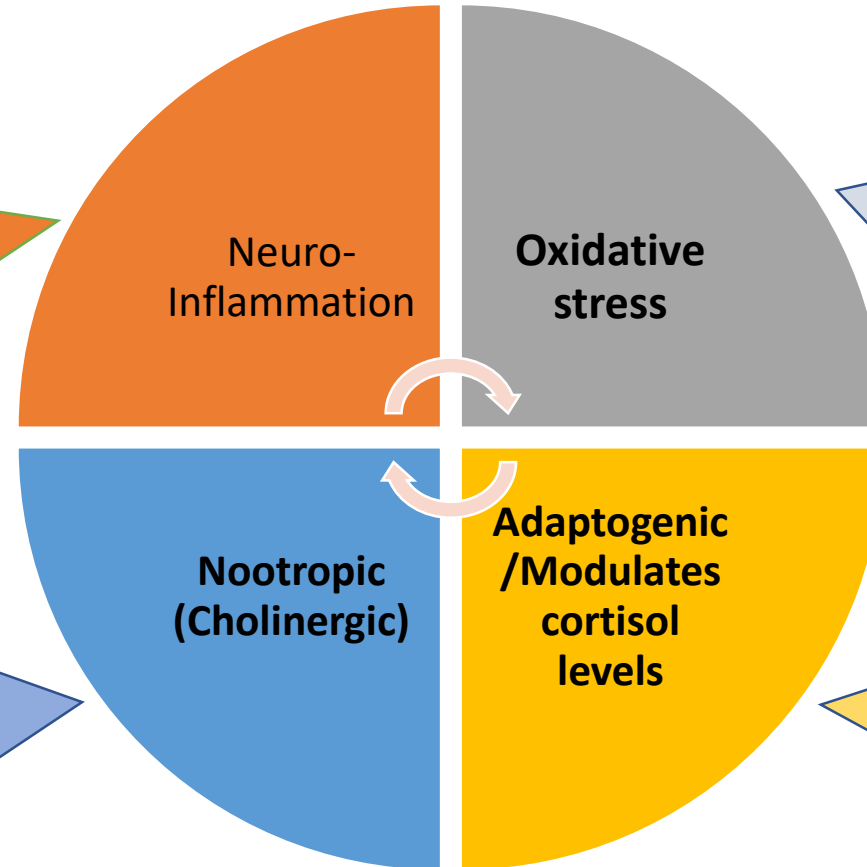
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- Studies suggest, iron supplementation helps in prophylaxis, decreasing the frequency.
- Piracetam, a nootropic found to be useful

How Mentat Syrup may help ?



Therapeutic targets



Literature data on herbal ingredients (Brahmi etc), from Mentat® Syrup have anti-inflammatory properties and known to address neuro-inflammation

Preclinical data on Mentat® Syrup suggests that it exerts nootropic benefits through antioxidant mechanism.

Preclinical data on Mentat® Syrup suggests that it exerts nootropic benefits

Literature data on herbal ingredients (Brahmi etc), from Mentat® Syrup known to have adaptogenic properties

What evidence we have so far ?



Evidence	Status
Literature Data (on ingredients)	Available
Pre-clinical data (Nootropic, Neuroprotective, adaptogenic & antioxidant properties)	Available
Clinical data (Cognitive improvement in children with attention and intellectual problems)	Available
Clinical data (Epilepsy & Breath holding spells)	Not Available