CLINICAL INSIGHTS

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XSTAN TABLETS ***Issue VII , No.21, 2025***

The application of telmisartan in central nervous system disorders

Wei Quan,et.al; Pharmacol Rep. 2025 Jun 19.

- Telmisartan, a well-established antihypertensive drug, has shown promising therapeutic potential for a variety of central nervous system (CNS) disorders.
- Angiotensin II type 1 receptor (AT1R) antagonist and a peroxisome proliferator-activated receptor (PPAR) γ activator mechanisms underpin its neuroprotective and anti-inflammatory effects, which are essential to its benefits in CNS diseases.
- Telmisartan modulates key cellular components of the CNS, including microglia, astrocytes, oligodendrocytes, vascular endothelial cells, and neurons, thereby offering protection against neuroinflammation, oxidative stress, and neuronal damage.
- By targeting multiple pathways involved in these disorders, Telmisartan demonstrates potential as both an adjunctive and standalone therapy.

The ability of Telmisartan to attenuate neuroinflammation and promote cellular repair highlights its versatility in CNS disease management.

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