

# **EFEK NEUROPROTEKTIF EKSTRAK DAUN GINKGO BILOBA PADA NEUROPATI PERIFER: *SCOPING REVIEW***

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## **Abstrak**

Neuropati perifer merupakan suatu gangguan saraf perifer dengan penyebab yang beragam, dapat mengenai saraf sensorik, motorik, otonom, atau campuran, dan dapat berlangsung akut maupun kronis. Neuropati perifer juga merupakan penyakit neurologis yang umumnya dijumpai oleh para praktisi. Pemberian tanaman obat seperti *Ginkgo biloba* sebagai terapi adjuvan dalam mengatasi neuropati perifer masih menjadi pertimbangan hingga saat ini. Efek ekstrak daun *Ginkgo biloba* mampu menghambat degradasi aksonal dan penghambatan produksi sitokin proinflamasi seperti TNF- $\alpha$ . Penelitian ini bertujuan untuk melihat bukti klinis efek neuroprotektif ekstrak daun *Ginkgo biloba* terhadap neuropati perifer dengan metode *scooping review* dan pencarian jurnal dilakukan untuk 10 tahun terakhir hingga 2 Januari 2021. Pencarian dilakukan di pusat literatur publikasi dengan kata kunci "Ginkgo biloba" OR "Ginkgolides" OR "Egb 761" AND "Neuroprotective" OR "Peripheral Neuropathy". Sebanyak enam penelitian terpilih yang memenuhi kriteria inklusi dan eksklusi. Penelitian ini membuktikan bahwa Terdapat satu bukti klinis terkait efek neuroprotektif ekstrak daun Ginkgo biloba terhadap neuropati perifer yang dilakukan pada manusia. Lima buah artikel penelitian membuktikan terdapat perbaikan klinis pada neuropati perifer setelah diberikan ekstrak daun Ginkgo biloba pada hewan coba. Keseluruhan penelitian menunjukkan perbaikan klinis dari efek neuroprotektif ekstrak daun *Ginkgo biloba* terhadap neuropati perifer.

**Kata kunci** : *Ginkgo biloba*, Neuropati Perifer, Neuroprotektif, *Scooping Review*

**NEUROPROTECTIVE EFFECTS OF *GINKGO BILOBA* LEAF  
EXTRACT ON PERIFER NEUROPROTHY: SCOPING  
REVIEW**

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**Abstract**

Peripheral neuropathy is a peripheral nerve disorder with multiple causes, can affect sensory, motor, autonomic, or mixed nerves, and can be acute or chronic. Peripheral neuropathy is also a neurological disease that practitioners commonly encounter. The administration of medicinal plants such as Ginkgo biloba as an adjuvant therapy to treat peripheral neuropathy is still a consideration until now. Ginkgo biloba leaf extract's effect is to inhibit axonal degradation and inhibit the production of proinflammatory cytokines such as TNF- $\alpha$ . This study aims to see clinical evidence of Ginkgo biloba leaf extract's neuroprotective effect on peripheral neuropathy by the scooping review method and journal searches carried out until January 2, 2021. The investigation was carried out in the published literature centre with the keywords "Ginkgo biloba" OR "Ginkgolides" OR "Egb 761 "AND" Neuroprotective "OR" Peripheral Neuropathy ". A total of six studies were selected that met the inclusion and exclusion criteria. This study proves that there is one clinical evidence regarding Ginkgo biloba leaf extract's neuroprotective effect on peripheral neuropathy in humans. Five research articles prove that there is a clinical improvement in peripheral neuropathy after being given Ginkgo biloba leaf extract in mice. All of selected review show clinical improvement in peripheral neuropathy after being given Ginkgo biloba leaf extract.

**Kata kunci :** *Ginkgo biloba*, Neuroprotective, Peripheral neuropathy, Scooping Review