

말초신경병증의 약물치료

Pharmacologic Treatment of Peripheral Neuropathy

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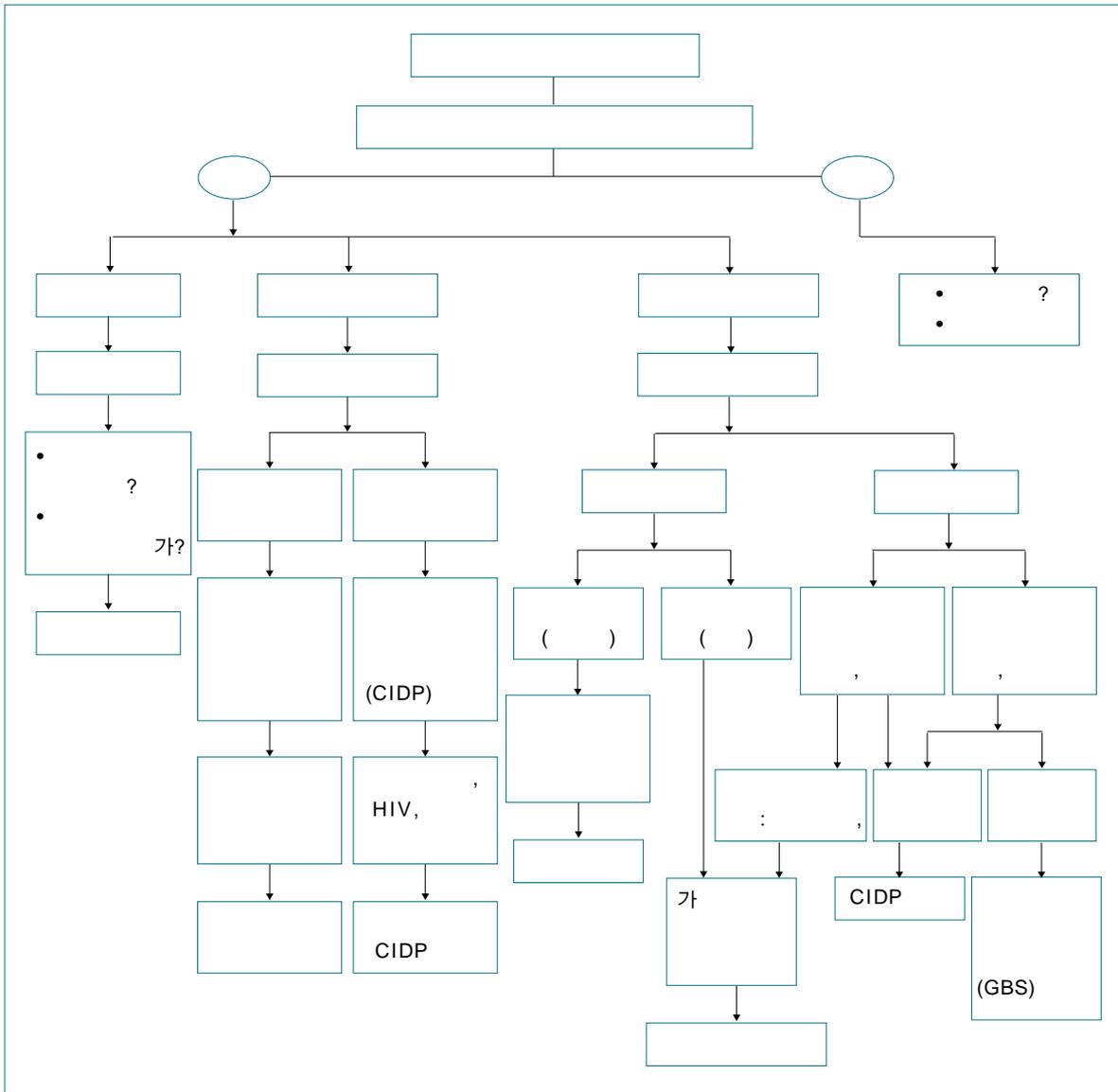
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Abstract

Peripheral neuropathy is a common neurological disorder and has a variety of identifiable causes such as diabetes, metabolic derangements, neurotoxic substances, and even genetic abnormalities. Even with a thorough evaluation, however, the underlying cause cannot be identified in a large portion of peripheral neuropathy. In addition to the diagnostic dilemma, the wide spectrum of clinical manifestations with a variety of combinations of altered sensation, muscle weakness, and autonomic symptoms in peripheral neuropathy also makes it difficult to introduce an appropriate management. Treatments for peripheral neuropathy are categorized according to the underlying conditions and the strategies designed to relieve peripheral nerve pain irrespective of the cause. This article summarizes the mechanisms of peripheral neuropathic pain and current pharmacologic treatments including tricyclic antidepressants and anticonvulsants.

Keywords : Peripheral neuropathy;
Pharmacologic treatment;
Neuropathic pain

가 2.4% 가
가 55 8%
(1).
가 .
(2).
가
가
(neuropathic pain)



CIDP : chronic inflammatory demyelinating polyneuropathy, GBS : Guillain - Barre syndrome

1. 가

가 .

(nerve conduction study)

(1)(3).

; (mononeuropathy),
 (mononeuritis multiplex), (polyneu-
 ropathy); (small - fiber), (large - fiber); (axonal),
 (demyelinating).

가 .
 C - BDNF(brain
 derived neurotropic factor) substance P가
 A

가
 가
 (primary sensory degeneration)

(4). (positive symptoms)
 (negative symptoms)
 (allody-
 nia,
) (hyperalgesia hyper-
 pathia, 가
)
 가

(central sensitization)
 C -
 (dorsal horn)
 가
 . NMDA(N - methyl - D - aspartate)
 AMPA(amino - hydroxy - 5 - methylisoxazole - 4 -
 propionic acid) 가
 (disinhibition)
 가 (GABAergic) (in-
 hibitory interneuron) (apoptosis)

가 (1).
 (5, 6)
 (ectopic excitability)

가
 가
 (phenotypic switch)

1.

	Tetrodotoxin	
	Tetrodotoxin	
	NMDA Neurokinin 1 nitric oxide synthase	NMDA Neurokinin 1 Ketamine, amantadine
	Vanilloid - 1 Neurokinin 1 Tetrodotoxin	Capsaicin Neurokinin 1 Tetrodotoxin
	(NGF)	
(sympathetic sprouting)	- /trKA	Phentolamine Guanethidine
	N	Conotoxin (opiates) 가 (gabapentin) (clonidine) (TCAs)

1. (nociceptive) 가

2

(7).

(causalgia) 가

2. (cordotomy),

1960

(commissural myelotomy),

(gate control theory)

(thalamotomy),

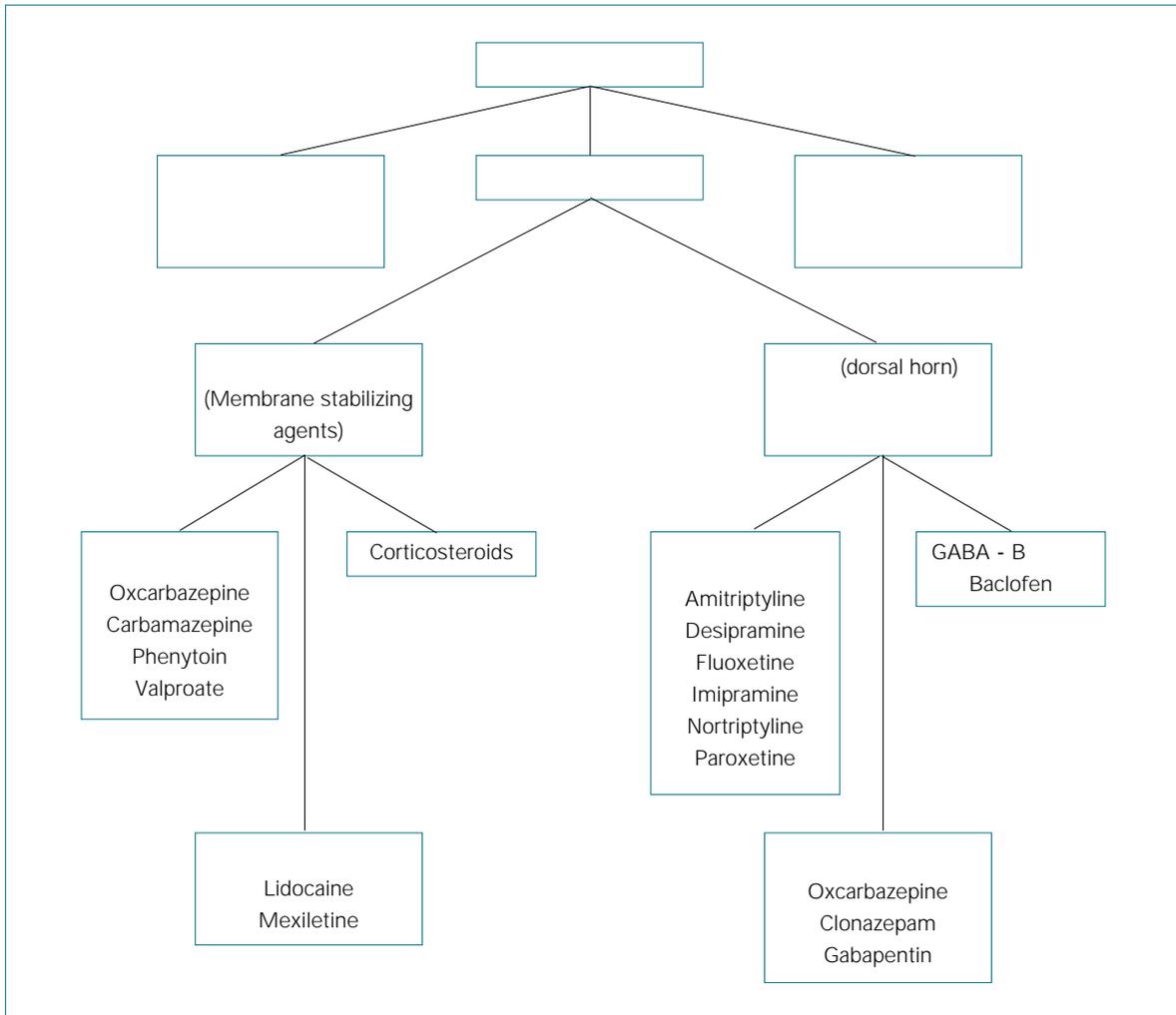
(mesence-

(transcutaneous electrical nerve stimulation,

phalic spinothalamic tractotomy),

TENS)

(dorsal root entry zone lesioning)



2.

2.

1)

가

(tricyclic anti-depressants, TCAs), 가 (gabapentin), tramadol, 5% (lidocaine patch) (opioid analgesics)

가 (2)(8).

(9),

(selective serotonin reuptake

