

ABSTRACT

Trigeminal neuralgia is a condition that affects the trigeminal nerve, that manifests in a series of stabbing like pain, and often described like electricity. Its treatment guideline is to prioritize pharmacotherapy until patient is well. The gold standard treatment for trigeminal neuralgia is pharmacotherapy of Carbamazepine. However, carbamazepine is proven to cause allergic reaction to some patients. This research aims to describe the pharmacotherapy that is given to patients.

Result: The regiments of pharmacotherapy in trigeminal neuralgia shows that CBZ is the main pharmacotherapy given, as it is the gold standard treatment. GBP is the second most pharmacotherapy given, most patients who are given GBP are not able to be given CBZ due to allergic reasons. PDA, a combination therapy of Paracetamol, Diazepam and Amitriptyline is the third most used in trigeminal neuralgia patients. PDA is also added caffeine in certain cases and becomes PDAC, as well as Paracetamol being changed to Ibuprofen and becomes IDA. Other analgesics are only given to one patient. Apart from the main therapy, multiple types of vitamin B is given; Vitaimin B1, B6, B12, Vitamin B Complex and Mecobalamin. 13 patients have complete NRS pain scale, 2 of which did not fully recover to NRS2 0.

The use of pharmacotherapy in the treatment of trigeminal neuralgia varies in patients, including other supporting drug for high blood pressure and other complaints. Polytherapy is also used in the treatment such as CBZ+GBP. Although CBZ is the gold standard medication, some patients with CBZ is still feel pain after medication, and other medication shows evidence to be efficacious compared to gold standard CBZ.

In conclusion, the medication of trigeminal neuralgia are mostly successful, with patients NRS1 and NRS2 showing significant difference. Most patients recover to not feeling pain. The pharmacotherapy of trigeminal neuralgia is not limited to the use of AEDs and other drug with neurologic pain relieve, but the role of neurotropic b vitamins are important.