Imitrex mechanism of action

Imitrex (Sumatriptan) is a migraine treatment medicine. It belongs to a class of drugs called triptans or selective serotonin receptor agonists.

This medicine effectively relieves pain, nausea, vomiting and other symptoms of migraine attacks. The treatment with Imitrex assists in decreasing the need for pain -killers and helps patients get back to their normal activities.

Sumatriptan is an agonist for a vascular 5 hydroxytryptamine1 receptor subtype. This medicine selectively reduces the carotid arterial blood flow. It does not influence arterial blood pressure. The activation of vascular 5 HT1 receptor subtype serves as a link to vasoconstriction. This action provides the relief of migraine headache. Besides, vasoconstriction action Imitrex enables 5 HT1 receptors on peripheral terminals of the trigeminal nerve innervatingcranial blood vessels. This helps to strengthen the effect of Sumatriptan in relieving pain.

Sumatriptan affects serotonin that causes narrowing of blood vessels and nerves in the brain.

In simple words, migraine headaches can result from expansion of blood vessels in the brain. And Imitrex containing Sumatriptan manages these migraines by inducing serotonin receptors which cause the muscles surrounding the blood vessels in the brain to contract and narrow the blood vessels.

Besides, Sumatriptan was proven to have a great effect on the process of reduction of passing of pain signals by nerves to the brain.

Imitrex should be used only to treat migraine attack that has already started. This medicine cannot prevent headaches or reduce the number of migraine attacks.

The medicine is not prescribed for the treatment of common headaches, pains of different kind not related to migraine attacks.

Do not use Imitrex (Sumatriptan) to treat your pain or headaches, if you are not sure that your headaches are migraines. Use Imitrex only if your ailment has been diagnosed by a doctor as migraine headaches.