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**Introduction:** The temporomandibular disorder is very frequent, existed few studies reflect the effectiveness of the ozone (intra-articular gas) application in the region of temporomandibular joint.

**Objectives:** To identify the signs and symptoms of temporomandibular disorder; to determine the remission time of the pain in the temporomandibular joint; and to evaluate the disappearance of the upset signs of temporomandibular disorder in the studies after the ozone therapy application.

**Material & Methods:** An intervention study was realized in patients of International Centre of Investigations of Ozone. Ozone was applied intra-joint for 10 sections 3 mg/L for a volume of 3 ml equivalent to 0.03 mg in one bilateral section, plus rectal application.

**Results:** The pain subsided before the fourth application of ozone (100%). The mouth opening limitation referred in (100%) followed to a lesser degree of deviation and mandibular deviation.

**Conclusions:** The intra-articular and rectal ozone is a safe method for the pain relief in the temporomandibular disorder and remitted before the fourth treatment session.

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**Background:**