

Diode's Laser in Office Endoscopic Surgery Center for Nasal Obstruction and Snoring

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Citation: Sajidxa Mariño, Jesus Lares, Wilmer Gonzalez. Diode's Laser in Office Endoscopic Surgery Center for Nasal Obstruction and Snoring. J Med - Clin Res & Rev. 2018; 2(6): 1-3.

Keywords

Data Science, Statistical inference.

A new type of ENT Center exclusive with topical cottons anesthesia use in patients with obstructive nasal diagnosis and snoring for a new technique of Laser Diode's for Endoscopic Turbinal Surgery IN OFFICE with topical anesthesia for immediately reincorporation to routine for patients between 2 years and ancients. Only a one hour preparation with drops and cotton's anesthesia, and five minutes procedure. Indicated for patients with Turbinate Hipertrophy (inferior turbinate or inferior and medial turbinate) with oral respiration, snoring, posterior rhinorrhea, or with facial algias, in patients complicated for general anesthesia, athletes who needs training the day after, executives or students who needs work or study the same day of the surgery, or any patients who needs to correctly brieth without been in an operating room and have the postoperative disincorporation of their routine.

Also in patients who has previously turbinate surgery in OR or septoplasty without success. The laser works on the lateral nose wall and also at the soft palate if it's necessary. With preoperative CT scan and endoscopic evaluation were shows turbinate disimintion, and clinical changes like considerate workout in nasal brieth, less snoring, notably disimintion of posterior rhinorrhea and no more presences of facial Algias for contact of middle turbine with Trigeminal gangly.

With 6 years implementation of this new technology at the office with 1276 patients, after 20 years experience in endoscopic sinus surgery, I decided to open a year ago the first Laser In Office Center for Otolaryngology at Caracas, Venezuela, as a Trade Mark named Respira Libre.

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Received: 25 October 2018; **Accepted:** 20 November 2018

The beginning of this technique was the correctly resolution of nasal obstructions in patients with have difficulties to have Anesthesia

The Diode's laser technique was analyzed through statistical software (R programming language) and provide the following findings in 1276 patients from 2 years old to 84, with a 93% of efficiency that is measure with the second look or more than one application. figure1 The top five consultation reasons are nasal obstruction (47%), snoring (20%), previous rinorrhea (15%), posterior rhinorrhea (12%) and oral breathing (6%). figure2, with a 59% of males and a 41 % of males figure 3. And if we choose patients under 17 years we've been made the surgery in 149 pediatric patients a 13,8% of the total figure 4, with a different frequency of consultation: nasal obstruction 69%, previous rinorrhea 20%, snoring 17%, oral breathing 13% and posterior rinorrhea 11% figure 5 and been 62% of boys and 38% of girls figure 6. The code related to this analysis is publicly available at GitHub (https://github.com/wilmeragsgh/diode_laser_technique_viz).

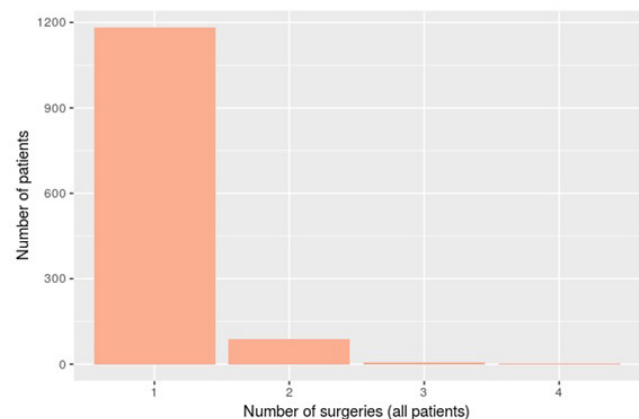


Figure 1: Patients (General).

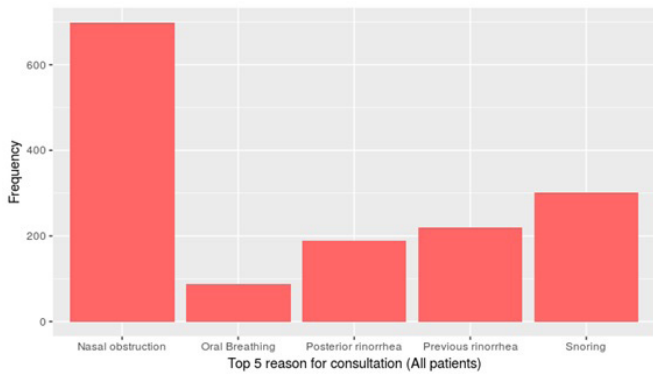


Figure 2: Patients (General).

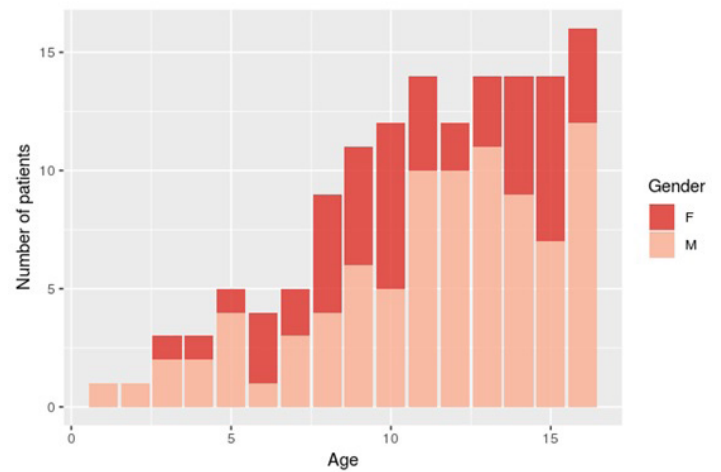


Figure 6: Children (Patient).

The technique was presented with the first 500 patients in March 2017 at Dubai figure 7, and in the actuality we have more than 1300 patients, and we'll continue working in this different model of resolution of the nasal obstruction and snoring problems at the office with Diode's Laser (Figure 8 and 9).

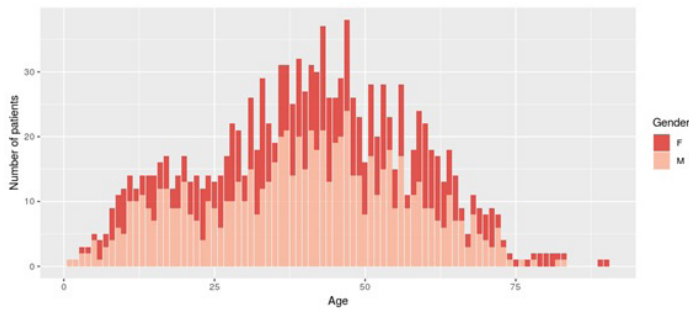


Figure 3: Patients (General).



Figure 7

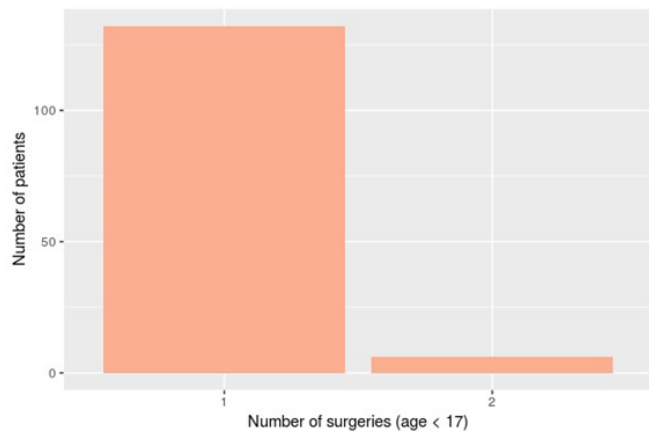


Figure 4: Patients (Children).

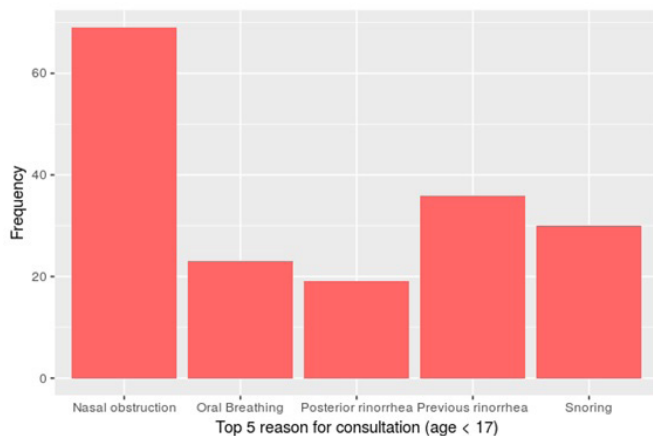


Figure 5: Patients (Children).

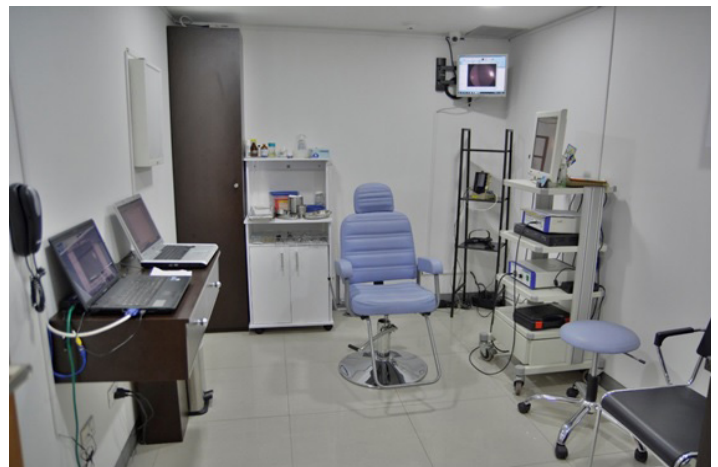


Figure 8

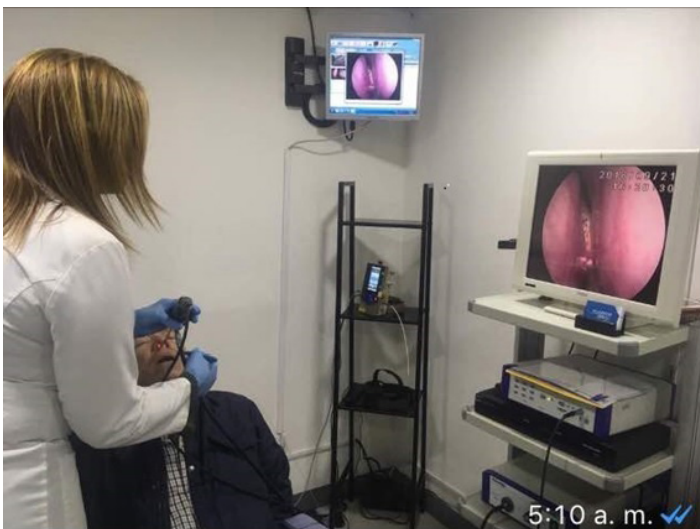


Figure 9