LONG-TERM OUTCOMES OF MT-DCR

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INTRODUÇÃO

Dacryocystorhinostomy (DCR) stands as the traditional surgical technique for treating nasolacrimal primary acquired duct obstruction (PANDO)(1).The modified diode transcanalicular laser dacryocystorhinostomy (MT-DCR) aims to mitigate excessive thermal injury, fibrosis, and excessive scarring of the nasal mucosa, which might otherwise result in anatomical or functional complications(2).

MATERIAL E MÉTODOS

This prospective and interventional study enrolled 141 patients (159 procedures) who underwent MT-DCR from January 2017 to June 2022. Patients were monitored for at least a year after the intervention. Anatomical success was determined by ostium patency upon irrigation, while functional success referred to epiphora resolution.

RESULTADOS

A total of 159 lacrimal drainage systems (112 women and 29 men) were included in this study. The average age of the cohort was 58 years (range: 34–91 years). One year after the surgery, MT-DCR exhibited anatomical and functional success rates of 84.9% (135/159) and 83% (132/159), respectively.

DISCUSSÃO

MT-DCR is minimally invasive and short operative time. The making of the nasal mucosa flap is performed before the application of the laser. This is the main difference to T-DCR. In MT-DCR, effective bleeding control, short operative time, and low laser power are key factors in achieving high success rates^(3,4).

FIGURAS, TABELAS E GRÁFICOS



Figure 1. Laser probe reaching the medial wall of the lacrimal sac (asterisk: axilla of the middle turbinate; circle: the laser probe)

Table 1. Patient data and anatomical success of the procedure.

	MT-DCR (159
	procedures)
Gender (F/M)	112/29
Age (Years)	58
Side (R/L)	89/70
Duration	24 min
Surgical sucess	135 (84.9%)
Failure	24 (15.1%)

CONCLUSÃO

As illustrated in this study, the success rate of MT-DCR was 84.9%, which constitutes an excellent outcome when compared to the established gold standard procedures. However, further comprehensive studies are required, encompassing a larger sample size and a longer follow-up time.

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