

## **CHROMOSCOPY DIGITAL AND IDENTIFICATION OF THE PARATHYROID GLAND DURING THYROIDECTOMIES. PRELIMINARY STUDY**

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**Background/Purpose:** The digital chromoscopy is an established method for evaluation of tumors of the upper aero-digestive superior, because through a narrow beam of light to 415nm, which corresponds to blue light. We observe the vascularization of tissues and tumors in cases of neoangiogenesis, and tissues with higher vascularization have a more intense brown color. In thyroidectomy and especially those associated with the emptying of the central compartment, the parathyroid (PT) are often difficult to identify and this methodology could help a lot on the procedure.

Evaluation of intraoperative parathyroid of thyroidectomies by chromoscopy digital refraction in red to differentiate parathyroid tissue adjacent

**Methods:** Preliminary study design, observational case-

Patients and method-In the preliminary study 05 patients, 01 males, all with indication of thyroidectomy for suspected malignancy. Classical thyroidectomy was performed, and we used a 30 degree otica with 4mm coupled with digital video system. Intraoperatively, after identification of the recurrent laryngeal nerve, we used the digital system to identify through the chromoscopy to identify the parathyroid glands, which comes in a brown color and more intense than the fibrofatty tissue.

**Results:** In five cases the visualization of the parathyroid glands by the method proved to be easy to evaluate, but there was no histopathological confirmation

**Discussion & Conclusion:** The digital chromoscopy refraction, can be a method to assist in identification of parathyroid glands, but needs experimental investigation to confirm the data.