We share our first experience with the dearterialization-ablation procedure by radiofrequency for the treatment of hemorrhoids.

This procedure was performed in 10 patients (8 /grade 2-3 and 2 / grade 4) over a period of 1 month.

Radiofrequency energy applied: 1200-1500 joules targeting the hemorrhoids core and 500-100 joules on the surface, without exceeding these values.

No recurrence was observed in the patients, nor major complications (bleeding, pain or stenosis) after one month post-operative follow-up.

The mean hospitalization period was 4 hours. All patients resume their normal daily activity between 48-72 hours without needing analgesics from that moment on.

No re-hospitalization nor urgent medical attention was necessary due to complications.

**Conclusion:** This novel technique is in progress and evaluated, since it may be more expensive than traditional methods, but it makes hospital stay short and limits the demand for post-operative care. In addition, it allows patients to resume to their normal daily activities very fast, with a high patient satisfaction rate.

An ideal procedure for the treatment of all types of hemorrhoids does not exist yet but the current treatments seeks a minimal invasive approach to improve the postoperative phase.

These procedures should be applied in an individualized way in pathological hemorrhoids and according to the experience of the surgeon.