

## UTILIZING RADIOWAVES FOR PROCTOLOGY SURGERY- A NEW MODALITY

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### ABSTRACT

**Background**-Advances in technology continue at a rapid pace affecting several aspects of life; medicine is no exception. Electrosurgery has been used for many decades in medicine. Radiowave is a further refinement of electrosurgery. Radiowaves produces ultra-high frequency waves that cause heat in the tissue water, producing steam, with which one can perform cutting, coagulation and fulguration of tissues with minimum collateral tissue damage. As the radiowave energy is applied, frictional heating of tissues results, with cell death occurring at temperatures between 38 and 70<sup>0</sup> C.

**Materials and Methods**- This paper discusses author's personal experience of using radiowave for various ano-rectal pathologies namely hemorrhoids, anal fistula, anal polyps, sinuses and anal papillae. A Ellman radiowave generator was used for carrying out the procedures.

**Results**- The radiowave was able to tackle most of the above-mentioned pathologies successfully.

**Conclusion**- Radiowave is a relatively new modality that is being used for ano-rectal surgeries with increasing frequency. Proctological surgeries using a radiowave device are simple to perform with many advantages over the most conventional techniques. The procedures take less operative time, post-operative pain is significantly less and the postoperative recovery is accelerated with negligible incidences of complications. All the procedures are performed as a day care procedure.

**Keywords**- Radiowave Proctology Electrosurgery thermal damage day care