



ISSN NO. 2320-5407

Journal homepage: <http://www.journalijar.com>Journal DOI: [10.21474/IJAR01](https://doi.org/10.21474/IJAR01)INTERNATIONAL JOURNAL
OF ADVANCED RESEARCH

RESEARCH ARTICLE

TO EVALUATE THE USE OF HARMONIC SCALPEL IN THYROID SURGERIES: A COMPARATIVE STUDY.

Dr. Omar Mohammad Shafi, Prof. Rauf Ahmad.

*Manuscript Info**Abstract**Manuscript History:*

Received: 14 April 2016
 Final Accepted: 19 May 2016
 Published Online: June 2016

*Key words:***Corresponding Author*

Omar Mohammad Shafi.

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Introduction:-

Harmonic Scalpel provides an alternative method of dissection in thyroid surgeries. The mechanism of Harmonic Scalpel is transforming electrical energy into mechanical movement of 55.5 kHz frequency using ceramic piezoelectric connector. It controls bleeding by coaptive coagulation attaining low temperatures (50°C-100°C).

Aims and objectives:-

To compare operative time, intra operative and postoperative blood loss, length of hospital stay and post-operative pain between harmonic scalpel and conventional groups.

Materials and method:-

This study was conducted at Department of Otorhinolaryngology, Head and Neck Surgery of Government Medical College, Srinagar from 2013 to 2015. Patients undergoing thyroid surgeries with and without neck dissection were included in this study.

Results:-

Harmonic scalpel proved better in all aspects for thyroid surgeries with and without neck dissection as compared to conventional method.

Conclusion:-

Use of Harmonic Scalpel is recommended in thyroid surgeries with and without neck dissection.