

# Clinical Summary

**Medtronic provides the following synopsis of a clinical publication involving the McGRATH™ MAC video laryngoscope.**

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<b>TITLE</b>	A multicenter randomized controlled trial of the McGRATH MAC video laryngoscopy versus conventional laryngoscopy
<b>AUTHORS</b>	M. Kriege, R.R. Noppens, T. Turkstra, S. Payne, O. Kunitz, I. Tzanova, I. Schmidtman
<b>JOURNAL</b>	Anaesthesia 2023

## OVERVIEW

This study evaluated if the use of the McGRATH™ MAC video laryngoscope (VL) compared with a direct laryngoscope (DL) improves first-pass tracheal intubation success in patients having elective surgery.

A total of 2,092 patients were analyzed from 2015-2019:

- n = 1,053, McGRATH™ MAC VL group
- n = 1039, DL group

## RESULTS

- **Significantly higher first-pass intubation success rate using the McGRATH™ MAC VL (94%)** compared with DL (82%) ( $p < 0.001$ ). Subgroup user analysis:
  - Experienced consultants first-pass success using McGrath to DL (95.7%, 90.3%)
  - Trainees first-pass success using McGrath to DL (92.6%, 77.1%)
- **Improved overall intubation success** (first and second attempts) **using McGRATH™ MAC VL (99%)** compared with DL (96%)
- Other **significantly positive findings for McGRATH™ MAC VL** compared with DL:
  - Better glottic views ( $p < 0.001$ )
  - Shorter tracheal intubation time to place ( $p < 0.001$ )
  - Less reported intubation difficulty scores,  $> 5$  ( $p < 0.001$ )

## **CONCLUSION**

Authors found McGRATH™ MAC VL was associated with higher tracheal intubation success than DL, with better glottic views and lower intubation difficulty scores. Findings conclude that video laryngoscopy benefits elective patients with anticipated normal airways.

## **LIMITATIONS OF THE STUDY**

Results may not be generalizable to other settings or situations, including nonoperating theatre; patients with known or anticipated difficult airways; and non-anesthetist intubators.

This study assessed a single video laryngoscope with a Macintosh blade. Results might not be transferable to other available video laryngoscopes, particularly those using hyper angulated or channeled blades.

## **REFERENCES**

Kriege M, Noppens R, Turkstra T, et al. A multicentre randomized controlled trial of the McGrath MAC video laryngoscope versus conventional laryngoscopy. *Anesthesia*. 2023. doi:10.1111/anae.15985

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**\*\*THIS CONCLUDES THE CLINICAL SYNOPSIS OF THIS PUBLICATION\*\***