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An analysis of patents for anesthetic laryngoscopes

Key words: Patent literature analysis, Anesthetic laryngoscope, Technology, Data analysis, Innovation dynamics

Research Summary

This review mainly focused on the patents of anesthetic laryngoscope structure: handle, blade, and lighting device, and summarized the key roles they played in the following aspects:

- A much lower lifting force to be used
- Clearer images to be obtained
- Improved glottic visualization
- High successful intubation rates
- Short intubation times
- Less serious complications of laryngoscopy



Figures are from:

- [1] www.mercurymed.com/catalogs/RDR_Laryngoscopes.pdf
- [2] Bartlett, R.L., 1990. Laryngoscope. US Patent US4947896
- [3] Tenger, J.P., Tenger, L.A., Hicks, J.R., Mckinney, T., 2012. Laryngoscope and method of use. US Patent US8257250 B2.
- [4] www.medigraphic.com/pdfs/rma/cma-2012/cmas121i4.pdf