

Supplementary Table 3. Compilation of general information from the included studies

Study/collection period	Location	Subject (male/female)	Age (yr)	Incidence rate of DLE (%)	Type of disease	Type of anesthesia	Laryngoscope model
Meng (2010) [1]/ 2006.5–2006.10	Department of ENT in Guangzhou First People's Hospital, Guangzhou, China	21/32	20–50 (median, 30)	13.21		Midazolam 1–2 mg/kg; Atracurium 0.25–0.5 mg/kg or Vecuronium bromide 0.04–0.08 mg/kg; Fentanyl 2–4 mg/kg; Isopropylphenol 1–2 mg/kg; Succinylcholine 1–2 mg/kg	
Wang (2012) [2]/ 2010.10–2011.12	The Third Xiangya Hospital, Central South University, China	50/39	43.12±1.63	22.47		Midazolam 5–10 mg/kg; Fentanyl 2–4 mg/kg; Isoproterenol 1–2 mg/kg; Rocuronium bromide 0.6–1.2 mg/kg	
Sun (2015) [3]/ 2012.5–2013.5	Department of ENT in the Affiliated Hospital of Inner Mongolia Medical University, China	82/75	14–71 (46.064± 11.69)	40.76	Vocal fold polyp, 157; vocal cord nodule, 12; vocal fold cyst, 2; amyloidosis of the vocal cords, 2; vocal cord nerve schwannoma tumor, 1		
Wang (2015) [4]/ 2013.1–2015.3	Department of ENT in Tangshan Xiehe Hospital, Tangshan, China	154/133	21–74	28.22	Vocal fold polyp, vocal cord leukoplakia, vocal fold cyst, early laryngeal carcinoma	Midazolam 1–2 mg/kg; Sufentanil 0.2–0.4 µg/kg; Propofol 2–3 mg/kg; Rocuronium bromide 0.6–1.2 mg/kg	
Huang (2016) [5]/ 2013.10–2015.9	Department of ENT in Shekou Hospital, Shenzhen, China	22/36	29–71 (46.5±13.4)	10.34	Vocal fold polyp, 53; vocal fold cyst, 4; early laryngeal carcinoma, 1		
Ma (2016) [6]/ 2013.10–2015.8	Department of ENT in Zhongshan hospital, Xiamen University, Xiamen, China	22/40	16–69 (median, 40)	35.48	Vocal fold polyp, 42; vocal fold cyst, 8; Reinke's edema, 4; sulcus of the vocal folds, 2; vocal cord granulation, 2; laryngeal papilloma, 2; vocal fold closure incomplete, 2	Endotracheal tube (diameter 5.5–6.0 mm) The degree of muscle relaxation reached TOF=0 and PTF <20	8588BV, Karl Storz (outer diameter 28 mm, inner diameter 17 mm) 8590JA, Karl Storz (outer diameter 25 mm, inner diameter 12 mm)
Pual (2016) [7]/ 2007.8–2009.7	Department of ENT in Christian Medical College, Vellore, India	96/21		26.49	Vocal polyps, malignancy of the vocal cords, vocal cyst		Storz laryngoscope Anterior commissure scope for DLE patient
Jin (2016) [8]/ 2013.5–2014.12	Department of ENT, The Second Affiliated Hospital of Zhejiang University School of Medicine, Hangzhou 310009, China	67/126	22–80 (47.8±11.2)	18.61	Vocal fold polyp, 190; laryngeal carcinoma, 2; vocal cord leukoplakia, 1	Propofol 1.5–2.5 mg/kg; Dexmedetomidine 0.8–1 µg/kg; Rocuronium bromide 5–10 µg/kg; Sufentanil 0.1–0.5 µg/kg	Laryngoscope tube (ZC502.002), Laryngoscope holder (502.003), Hangzhou Nanyu Medical Instrument

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Li (2017) [9]/ 2014.10–2015.5	Department of ENT, the First People's Hospital of Foshan, China	35/52	14–61 (41.78±13.42)	38.88	Vocal fold polyp, 44; vocal cord nodule, 28; vocal fold cyst, 11; vocal process granuloma, 2; vocal cord leukoplakia, 5		Storz laryngoscope
Pinar (2009) [10]/ 2005.1–2006.10	Department of Otolaryngology, Ataturk Training and Research Hospital, Izmir, Turkey	79/14	22–85 (52.70±13.01)	23.65	Vocal fold nodules or polyps, premalignant or malignant lesions of the larynx or hypopharynx, cysts of the supraglottis, intracordal cysts, Reinke's edema, large intubation granulomas	Intubated with an endotracheal tube (5.5 or 6.0 mm in diameter) under general anesthesia and muscle relaxation	8580B and 8585D, Karl Storz
Li (2021) [11]/ 2020.1–2021.1	Department of Otolaryngology, Jiangsu Taizhou People's Hospital, Jiangsu, Taizhou 225300, China	76/74	21–75 (44.33±10.63)	34.66	Vocal fold polyp, vocal cord leukoplakia, vocal fold cyst, early laryngeal carcinoma, vocal fold papilloma, vocal fold granulomas		Same model laryngoscope
Liu (2022) [12]/ 2019.4–2020.10	Department of Otorhinolaryngology, Tongren Hospital, Shanghai Jiao Tong University School of Medicine, No. 1111 Xianxia Road, Shanghai 200336, China	73/22	16–69 (42.0±9.7)	23.15	Vocal fold nodules or polyps, premalignant or malignant lesions of the larynx or hypopharynx, cysts of the supraglottis, intracordal cysts, Reinke's edema large intubation granulomas	Intubated with an endotracheal tube (5.5 or 6.0 mm in diameter) under general anesthesia and muscle relaxation	8575KA, Karl Storz
Chen (2019) [13]/ 2016.1–2017.5	Wuhan University School of Basic Medical Sciences, Wuhan 430000, China	94/90	21–68 (45.43±11.06)	34.23	Vocal fold polyp, 86; vocal cord nodule, 58; vocal fold cyst, 28; vocal process granuloma, 7; vocal cord leukoplakia, 4		
Cheng (2020) [14]/ 2017.5–2018.10	Department of Otolaryngology, Meizhou People's Hospital, Meizhou Hospital Affiliated to Sun Yat-sen University, Meizhou, Guangdong 514031, China	77/133	21–71 (46.83±14.07)	44.09	Vocal fold polyp, 104; vocal cord nodule, 53; vocal fold cyst, 38; Reinke's edema, 15		Laryngoscope ZC, Hangzhou Nanyu Medical Instrument
Hsiung (2004) [15]/ 2002.1–2002.9	Tri-Service General Hospital, National Defense Medical Center, Taipei, Taiwan, R.O.C.	16/40		33.92	Patients with dysphonia undergoing microlaryngoscopic surgery	Intubated with an endotracheal tube (5.5 or 5.5 mm in diameter) under general anesthesia	Anterior commissure laryngoscope (8580B, 8585D, Karl Storz or 10338501, 10338602, 10338503, Nagashima Medical Instrument) and holder device (8675 or 10338400)

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Wei (2018) [16]/ 2016.9–2017.9	Department of ENT, the Third People's Hospital of Huizhou City, Guangdong Province, Huizhou 516002, China	41/38	14–71 (46.05 ± 11.65)	41.02	Vocal fold polyp, 77; vocal cord nodule, 6; vocal fold cyst, 1; amyloidosis of the vocal cords, 1; vocal cord nerve schwannoma tumor, 1		
Wang (2021) [17]/ 2016.10–2019-6	The First People's Hospital of Zhumadian City, Zhumadian 463000, Henan, China	102/76	20–69 (44.54 ± 13.60)	20.78	Early laryngeal cancer patients undergoing microlaryngoscopic surgery		
Kharat (2022) [18]/ 2021.1–2021.11	Department of Otorhinolaryngology, Habib Bourguiba Hospital, Sfax, Tunisia			23.45	Patients with benign or malignant lesions of the larynx undergoing microlaryngoscopic surgery	Intubated with the smallest possible endotracheal tube	

DLE, difficult laryngeal exposure; TOF, Train-of-four stimulation; PTF, post-tetanic facilitation.