

Supplementary Table 2. Raw data composited of dichotomous and continuous variables collected from included studies

1. Modified Cormack-Lehane scoring ≥3						
Study	Events-DLE	Total-DLE	Events-non DLE	Total-non DLE		
Li 2017	13	35	2	55		
Paul 2016	13	31	75	86		
Kharrat 2022	16	19	3	52		
2. Sex= male						
Study	Events-DLE	Total-DLE	Events-non DLE	Total-non DLE		
Chen 2019	29	63	65	121		
Cheng 2020	40	97	52	113		
Hsiung 2004	10	19	6	37		
Li 2017	18	35	20	55		
Liu 2021	30	52	46	98		
Paul 2016	28	31	68	86		
Huang 2016	2	6	20	52		
Sun 2015	38	64	34	93		
Wang 2015	50	81	101	206		
Ma 2016	16	22	6	40		
Wei 2018	19	32	22	47		
Wang 2021	22	37	80	141		
3. Vertical thyroid-mental distance in neutral position						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Cheng 2020	4.49	0.82	97	5.05	0.90	113
Hsiung 2004	3.50	0.70	19	3.70	1	37
Jin 2016	4.81	1	35	4.71	0.95	158
Li 2017	3	0.94	35	3.04	0.75	55
4. Vertical thyroid-mental distance in full extension						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Jin 2016	7.77	1.14	35	8.11	1.06	158
Li 2017	5.30	0.85	35	6.42	1.23	55
5. Horizontal thyroid-mental distance in neutral position						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Cheng 2020	5.65	0.74	97	5.99	1.02	113
Jin 2016	5.15	1.12	35	4.99	0.95	158
Li 2017	5.39	0.59	35	6.17	0.89	55
6. Horizontal thyroid-mental distance in full extension						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Jin 2016	2.68	0.67	35	2.74	0.84	158
Li 2017	4.17	0.58	35	4.25	0.73	55
7. Sterno-mental distance in neutral position						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	13.38	1.82	63	13.61	1.63	121
Cheng 2020	13.49	0.74	97	14.03	2.15	113
Jin 2016	11.14	1.45	35	11.01	1.35	158
Li 2017	13.44	1.74	35	13.55	1.58	55
Liu 2022	11.24	1.87	22	11.54	1.97	73
Paul 2016	12.62	1.93	31	12.65	1.60	86
8. Thyroid-mental angle						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	109.84	5.34	63	107.52	5.68	121
Cheng 2020	114.57	7.24	97	123.62	8.15	113
Hsiung 2004	139.50	8.60	19	118.80	11.4	37
Jin 2016	121.29	8.87	35	134.29	8.38	158
Li 2017	111.85	5.15	35	107.01	6.05	55

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9. Age						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	45.62	12.07	63	41.38	10.54	121
Cheng 2020	48.73	16.07	97	45.16	13.95	113
Hsiung 2004	51.30	11	19	41	11	37
Li 2017	50.43	13.41	35	36.27	10.61	55
Liu 2021	44.41	8.62	52	41.76	10.79	98
Liu 2022	43.12	8.35	22	41.68	10.15	73
Ma 2016	45.25	12.37	22	40.55	9.73	40
10. Body mass index						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	23.85	3.94	63	23.17	2.05	121
Cheng 2020	24.18	3.02	97	23.59	2.65	113
Hsiung 2004	23.60	2.40	19	22.70	3.30	37
Li 2017	23.90	4.72	35	23.09	1.73	55
Liu 2021	27.64	3.21	52	24.04	1.69	98
Liu 2022	26.56	2	22	25.64	2.57	73
Paul 2016	23.91	4.34	31	22.36	3.80	86
Ma 2016	24.36	1.86	22	24.01	2.58	40
11. Modified Mallampati's index ≥3						
Study	Events-DLE	Total-DLE	Events-non DLE	Total-non DLE		
Chen 2019	43	63	43	121		
Cheng 2020	76	97	77	113		
Li 2017	25	35	19	55		
Liu 2021	29	52	9	98		
Paul 2016	12	31	13	86		
Kharrat 2022	12	19	14	52		
Meng 2010	7	7	14	46		
Wang 2012	9	20	5	69		
Sun 2015	36	64	26	93		
Ma 2016	2	22	6	40		
Wang 2021	15	37	29	141		
12. Inter-incisor gap						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	3.76	0.72	63	4.81	0.65	121
Cheng 2020	3.81	0.74	97	4.13	0.98	113
Jin 2016	3.96	0.68	35	4.48	0.65	158
Li 2017	3.81	0.63	35	4.47	0.60	55
Liu 2021	4.04	0.35	52	4.03	0.27	98
Huang 2016	3.70	0.30	6	4.30	0.40	52
13. Flexion-extension angle						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	94.05	5.34	63	107.49	10.31	121
Cheng 2020	97.56	6.89	97	102.37	9.10	113
Li 2017	93.29	5.59	35	108.36	12.19	55
Liu 2021	92.19	7.09	52	100.96	9.70	98
Huang 2016	26.30	5.60	6	34.60	9.20	52

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14. Hyoid-mental distance in neutral position						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	4.68	0.63	63	4.94	0.87	121
Cheng 2020	4.68	0.62	97	4.95	0.91	113
Hsiung 2004	5.20	0.80	19	5.30	0.70	37
Jin 2016	4.75	0.69	35	4.86	0.69	158
Li 2017	4.71	0.58	35	5.06	0.96	55
15. Hyoid-mental distance in full extension						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	5.47	0.41	63	5.68	0.62	121
Jin 2016	6.11	0.68	35	6.52	0.73	158
Li 2017	5.40	0.37	35	6.18	0.83	55
Liu 2021	5.95	0.35	52	6.56	0.44	98
Huang 2016	5.30	1	6	5.20	1.10	52
16. Thyroid-mental distance in neutral position						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	5.65	0.87	63	6.33	1.17	121
Cheng 2020	6.12	0.93	97	7.45	1.28	113
Hsiung 2004	6.20	0.80	19	6.40	0.80	37
Jin 2016	6.41	0.68	35	6.46	0.77	158
Li 2017	5.93	0.83	35	6.49	1.25	55
Liu 2022	5.13	1.05	22	5.87	0.96	73
Paul 2016	5.87	0.68	31	6.11	1.01	86
17. Thyroid-mental distance in full extension						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	7.06	0.58	63	8.27	1.04	121
Jin 2016	8.63	0.82	35	9.29	0.86	158
Li 2017	7.14	0.63	35	8.32	1.01	55
Liu 2021	7.40	0.56	52	8.31	0.46	98
Liu 2022	6.19	1.09	22	7.66	1.11	73
Huang 2016	5.60	0.90	6	7.20	1.20	52
18. Sterno-mental distance in full extension						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	15.89	1.25	63	17.94	1.51	121
Jin 2016	15.97	1.83	35	17.07	1.70	158
Li 2017	16.06	1.21	35	18.01	1.47	55
Liu 2021	14.33	0.90	52	16.28	0.69	98
Liu 2022	12.88	2.10	22	14.09	2.11	73
Huang 2016	15.20	1.80	6	16.10	1.90	52
19. Neck circumference						
Study	Mean-DLE	SD-DLE	Total-DLE	Mean-non DLE	SD-non DLE	Total-non DLE
Chen 2019	15.89	1.25	63	17.94	1.51	121
Jin 2016	15.97	1.83	35	17.07	1.70	158
Li 2017	16.06	1.21	35	18.01	1.47	55
Liu 2021	14.33	0.90	52	16.28	0.69	98
Liu 2022	12.88	2.10	22	14.09	2.11	73
Huang 2016	15.20	1.80	6	16.10	1.90	52

Events: number of people with the particular event. Total: number of all patients in different groups.
 DLE, difficult laryngeal exposure; SD, standard deviation.