

NEWER LARYNX MODELS (on green base)

The functions of the individual larynx muscles:

1. Opening of the rima glottidis:
Posterior cricoid cartilage – arytenoid cartilage muscle (17),
M. cricoarytenoideus posterior
2. Closing of the true glottis:
Transverse arytenoid muscle (18), M. arytenoideus transversus oblique arytenoid muscle (19), M. arytenoideus obliquus, as well as the not depicted lateral crico – arytenoid muscle, M. cricoarytenoideus lateralis.
3. Movement of the vocal cord:
Vocal muscle (29), M. vocalis
4. Tightening of the vocal cord:
Crico-thyroid muscle (16); M. cricothyroideus

The nervous provision of the larynx is through the branches of the vagus nerve, the superior laryngeal nerve (22), N. laryngeus superior. The superior laryngeal artery (21), A. laryngea superior and the superior thyroid artery (20), A. thyroidea superior, are educed from the arterial vascular system.

1. "Tongue bone," (Hyoid)
 - a) Body (Corpus)
 - b) Greater cornu
 - c) Lesser cornu
2. Thyroid cartilage
 - d) Superior cornu of the thyroid cartilage
 - e) Inferior cornu of the thyroid cartilage
3. Cricoid cartilage
4. Arytenoid cartilage
5. Cartilage of Santorini (*Cornicalate*)
6. Wrisberg's cartilage (*Cuneiform*)
7. *Tracheal* cartilages
8. Middle ligament of the tongue bone and the thyroid cartilage, (*thyrohyoid*)
9. Lateral ligament of the tongue bone and the thyroid cartilage (*thyrohyoid*) — therein is often a fibrocartilage piece: the triticeous cartilage

10. Joint-capsule between thyroid cartilage horn and cricoid cartilage

11. Crico-thyroid ligament
 12. Ligament of the cricoid cartilage and the *trachea*
 13. Elastic fibrous substance between the tracheal cartilages
 14. Posterior membranous wall of the *trachea*
- [The ----- Trachea divides before the 4th or 5th thoracic vertebrae into the two bronchi]
15. Thyrohyoid muscle
 16. Crico-thyroid muscle ----- on which one distinguishes a superficial part ----- and a lower part
 17. Posterior crico-arytenoid muscle
 18. Transverse arytenoid muscle
 19. Oblique arytenoid muscle
 20. Superior thyroid artery
 21. Superior laryngeal artery
 22. Superior laryngeal nerve

The mucous membrane and the interior space of the larynx.

23. Epiglottis ----- *Containing Epiglottic Cartilage*
24. Ligament of the tongue bone and the epiglottis (*Hyoepiglottic*)
25. Thyro-epiglottic ligament
26. Sinus of larynx, tric
27. Vestibular fold, Plica vestibularis (*False Vocal Fold*)
28. *True Vocal Fold*
29. Vocal muscle
30. Mucous membrane of the *trachea* (*Tunica mucosa*)
31. Ary-epiglottic folds
32. Piriform fossa

Bronchial tree with the individual bronchial segments
(applies to GS 4/1 and GS 4/2 only).

A. Right main bronchus: Bronchus principalis dexter.

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| 1. Bronchus segmentalis apicalis | } Bronchus lobaris superior dexter |
| 2. Bronchus segmentalis posterior | |
| 3. Bronchus segmentalis anterior | |
| 4. Bronchus segmentalis lateralis | } Bronchus lobaris medius dexter |
| 5. Bronchus segmentalis medialis | |
| 6. Bronchus segmentalis apicalis [superior] | } Bronchus lobaris inferior dexter |
| 7. Bronchus segmentalis basalis medialis (cardiacus) | |
| 8. Bronchus segmentalis basalis anterior | |
| 9. Bronchus segmentalis basalis lateralis | |
| 10. Bronchus segmentalis basalis posterior | |

B. Left main bronchus: Bronchus principalis sinister.

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| 1. Bronchus segmentalis | } Bronchus lobaris superior sinister |
| 2. Bronchus segmentalis apicoposterior | |
| 3. Bronchus segmentalis anterior | } Bronchus lobaris inferior sinister |
| 4. Bronchus lingularis superior | |
| 5. Bronchus lingularis inferior | |
| 6. Bronchus segmentalis apicalis [superior] | } Bronchus lobaris inferior sinister |
| 8. Bronchus segmentalis basalis anterior | |
| 9. Bronchus segmentalis basalis lateralis | |
| 10. Bronchus segmentalis basalis posterior | |

The Tongue
(Applies to GS 4 only)

1. Tongue-tip, Apex linguae
2. Muscles of the tongue, Mm. linguae
3. Filiform papillae, Papillae filiformes
4. Fungiform papillae, Papillae fungiformes
5. Vallate papillae, Papillae vallatae
6. Foramen caecum of the tongue, Foramen caecum linguae
7. Styloglossus muscle, M. styloglossus
8. Hyoglossus muscle, M. hyoglossus.
9. Geniohyoid muscle, M. geniohyoideus
10. Genioglossus muscle, M. genioglossus
11. Glossopharyngeal nerve, N. glossopharyngeus
12. Hypoglossal nerve, N. hypoglossus
13. Lingual nerve, N. lingualis
14. Lingual artery, A. lingualis
15. Submandibular gland, Gl. submandibularis
16. Sublingual gland, Gl. sublingualis
17. Septum of the tongue, Septum linguae
18. Lower jaw, Mandibula