READING FOR RESPIRATION AND PHONATION

1. Recommended

Section 9 of supervision reading list, starting with the basic, e.g. those asterisked, and being selective.
[Hardcastle, W.J. (1976) Physiology of Speech Production. London: Academic. The best succinct description for phoneticians of the muscles and how they work. But the anatomy is only schematic.]

Additional strongly linguistic-phonetic approaches include:

2. Advanced reading


3. Anatomy colouring books


4. ELECTRONIC RESOURCES

Basic anatomy: http://www.pdn.cam.ac.uk/teaching/part1a/1a_fab/basic_anatomy.htm
Muscle physiology:
  • http://fig.cox.miami.edu/~cmallery/150/neuro/muscle.htm
  • http://academic.wsc.edu/faculty/jatodd1/351/ch6outline.html
  • http://nmrc.bu.edu/tutorials/motor_units/index.html
  • http://www.mona.uwi.edu/fpas/courses/physiology/muscles/

Larynx:
There are some excellent websites on the larynx and speech. Many have movies you can look at using QuickTime, which is downloadable freeware. Some of the best are listed below.
Rotatable larynx (Quicktime) for anatomy
http://anatomy.med.umich.edu/qtvr/qtvr_larynx.html
Hold down and then drag the mouse in the direction you want to turn the larynx.
Movies of vibrating vocal folds, and action during various speech sounds
The best one is on Louis Goldstein’s Larynx Film Festival website.
http://sail.usc.edu/~lgoldste/General_Phonetics/Larynx_film_festival/index.html
normal vibration:
http://sail.usc.edu/~lgoldste/General_Phonetics/Larynx_film_festival/Demo_320_RLS_1A.mpg
Goldstein’s site has many other good speech resources one node up, at:
http://sail.usc.edu/~lgoldste/General_Phonetics/

Other good sites about the larynx:
http://www ims.uni-stuttgart.de/phonetik/EGG/page13a.htm
http://www.humnet.ucla.edu/humnet/linguistics/faciliti/demos/vocalfolds/vocalfolds.htm
http://www.vocalprocess.co.uk/ Video e-book shows endoscopic footage of a healthy larynx speaking and singing five vowels. See more under Cambridge Phonetics Lab Resources.

Cambridge Phonetics Lab resources
• Examine the model larynx in your own time (gently – the rubber parts can break!)
• The lab has some videos, and I (Sarah Hawkins) have a few of my own I can make available.
  • I have some clips from them, particularly of laryngeal action during production of various modes of stop voicing. I can show them during a lab session if asked.
• Vocal Process video e-books. Six “chapters” from a BBC series on larynx, voice, and soft palate. 2-4 minutes each. Aimed at singers, but some excellent material for phoneticians too. On the following PCs in the lab: avon, usk, isis. Login to Student (ask for password). Ask for more help if necessary.

Laryngeal health
To find out about keeping your vocal folds (and vocal tract) healthy, a good place to start is:

Singing
If you are interested in singing, the British Voice Association keeps you in touch with British workshops etc and gives outline advice on voice care: http://www.british-voice-association.com/