

# The width-length quotient

## The width-length quotient of the glottis as a measure of amplitude size

(Arndt/Schäfer, Wiesbaden, 1994)

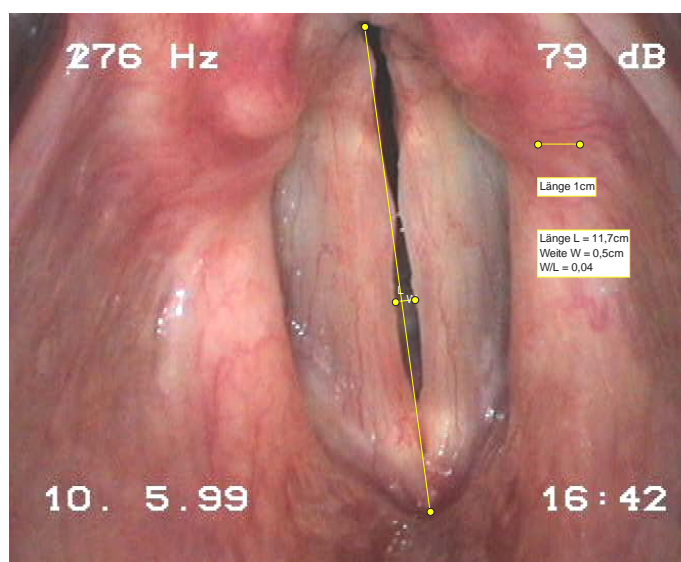
The oscillation amplitude of the vocal cords plays an important part in the evaluation of voice disorders. The experienced examiner always includes the length of the glottis in his/her considerations when deciding whether the oscillation amplitude is normal, too great or too small. The width-length ratio of the glottis therefore produces the correct measure for evaluating the oscillation amplitude of the vocal cords. To obtain norm values of this quotient, stroboscopic measurements were evaluated for 41 male and 41 female subjects with healthy voices. Measuring took place at medium volume in the pitch area of speech. Statistical evaluation was carried out with the aid of Box-and-Whisker-Plots. The minimum value for the width-length quotient of the glottis in both men and women is 0.10. The maximum values are 0.31 for men and 0.26 for women. The mean width-length quotient of the glottis is 0.16 for men and 0.17 for women. The range is greater for women and the distribution, by contrast to that for men, is not quite symmetrical. The 50% of scores closest to the mean are in the area between 0.14 and 0.2. Values at the lower end of the scale suggest [hyperfunction] (small amplitude) while values at the upper end of the scale (0.2 and over) suggest [hyperfunction] (relatively large amplitude).

### Our solution:

- select the best picture using rpSzene film processing and save it
- establish the new width-length ratio of the glottis. The adjacent values are then calculated automatically from the relationship of width to length of the glottis (W/L).
- option to choose whether values are given in pixels, cm. etc.

### Further functions:

- area measurement
- length measurement
- distance measurement
- any colour can be selected for lines.



At present the charge for this examination can be made under number 618A of GOÄ, the scale of medical charges in Germany.

A-SB-04

WLQ measurement, rpSzene upgrade  
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Subject to technical alterations.  
Prices include delivery, assembly, handover and instruction and are subject to VAT at the rate applicable in each case.  
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