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# Musikphysiologie und Musikermedizin in anderen Publikationen

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## Englischsprachige Abstracts

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### Measuring Voice Effects of Vibrato-Free and Ingressive Singing: A Study of Phonation Threshold Pressures

FORNHAMMAR L, SUNDBERG J, FUCHS M, PIEPER L

*J Voice*. 2022 Jul;36(4):479–486.

<https://doi.org/10.1016/j.jvoice.2020.07.023>

**Abstract:** BACKGROUND. Phonation threshold pressure (PTP), showing the lowest subglottal pressure producing vocal fold vibration, has been found useful for documenting various effects of phonatory conditions. The need for such documentation is relevant also to the teaching of singing, particularly in view of vocal demands raised in some contemporary as well as early music compositions. The aim of the present study was to test the usefulness of PTP measurement for evaluating phonatory effects of vibrato-free and ingressive singing in professional singers.

METHODS. PTP was measured at a middle, a high and a low pitch in two female and two male singers before and after recording voice range profiles (i) in habitual technique, ie, with vibrato, (ii) in vibrato-free, and (iii) in ingressive phonation. Effects on vocal fold status were examined by videolaryngostroboscopy.

RESULTS. After careful instruction of the singers, no problems were found in applying the PTP method. In some singers videolaryngostroboscopy showed effects after the experiment, eg, in terms of increased mucus and more complete glottal closure. After ingressive phonation PTP increased substantially at high pitch in one singer but changed marginally in the other singers.

CONCLUSION. The method seems useful for assessing and interpreting effects of singing in different styles and as a part of voice diagnostics. Therefore, it seems worthwhile to automatize PTP measurement.

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### How Safe is Singing Under Pandemic Conditions? – CO<sub>2</sub>-Measurements as Simple Method for Risk Estimation During Choir Rehearsals

BAUER K, HARDEGE R, NEUMANN S, SCHWARZE R, FUCHS M, PIEPER LH

*J Voice*. 2022 Jun 3;S0892-1997(22)00136-9.

<https://doi.org/10.1016/j.jvoice.2022.05.003>

**Abstract:** OBJECTIVES. The SARS-CoV-2 pandemic has forced choirs to pause or at least to restrict rehearsals and concerts. Nevertheless, an uncertainty about the risks of infection while singing remains, especially with regard to distances, duration of singing, number of singers and their positions in the room, size of the room as well as