Chest Wall Posturing in Females during Spontaneous Speech and Reading

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Abstract

The chest wall movements of 10 young adult female speakers were measured during spontaneous speech and reading. The research question was whether there is a predictable pattern of posturing of the rib cage and abdomen for speech. Previous research has suggested that postural changes of the thoracic and abdominal cavities during speech might be related to changes in the chest wall movement patterns. This study aimed to determine if there was a predictable pattern of postural changes of the thoracic and abdominal cavities during speech.

Methods

- **Sample**: Ten young adult females (mean age: 22.4 years)
- **Procedures**: Participants were instructed to read a passage aloud and were recorded while speaking.
- **Data Analysis**: Data was analyzed using Fourier analysis and Lomb-Scargle periodogram.

Results

- **Significant Differences**: Significant differences were found between the chest wall movements during speech and reading.

Discussion & Conclusions

- **Implications**: The findings of this study suggest that there is a predictable pattern of postural changes of the thoracic and abdominal cavities during speech. This could have implications for the study of speech production and the treatment of speech disorders.

Selected References


References


