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Development of Testosterone and Estrogen in Boys and Girls Choirs

Nowadays we are focusing much more on physiological parameters to optimize the quality of the singing choirs. There are many kinds of voice analysis on the market, which help the singer and the singing teacher to understand the children's development. What is not really well understood, and taken into account, is the normal hormonal development. In pediatrics pubertal stages are focused upon, and it is well known that the male voice puberty is around 14.5 years and the female voice puberty is around 12.5. We managed to show from 8-18 years of age, how the voice parameters change in relation to the sexual hormone development. This is basis for further understanding in the future of how voice is related to other biological phenomena including genetics.