

Deflazacort

- [Influence of Different Types of Corticosteroids on Heart Rate Variability of Individuals with Duchenne Muscular Dystrophy-A Pilot Cross Sectional Study](#)
- [Cardiorespiratory Progression Over 5 Years and Role of Corticosteroids in Duchenne Muscular Dystrophy: A Single-Site Retrospective Longitudinal Study](#)
- [²³Na MRI and myometry to compare eplerenone vs. glucocorticoid treatment in Duchenne dystrophy](#)
- [Corticosteroids for the treatment of Duchenne muscular dystrophy](#)
- [Practice guideline update summary: Corticosteroid treatment of Duchenne muscular dystrophy \[RETIRED\]: Report of the Guideline Development Subcommittee of the American Academy of Neurology](#)
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The objective of a study was to assess the cardiac autonomic modulation of individuals with [Duchenne Muscular Dystrophy](#) undergoing therapy with [Prednisone/Prednisolone](#) and Deflazacort and compare with individuals with DMD without the use of these medications and a typically developed control group. A cross-sectional study was completed, wherein 40 boys were evaluated. The four treatment groups were: Deflazacort; Prednisone/Prednisolone; no [corticosteroid](#) use; and typical development. Heart Rate Variability (HRV) was investigated via linear indices (Time Domain and Frequency Domain) and non-linear indices. The results of this study revealed that individuals with DMD undertaking pharmacotherapies with Prednisolone demonstrated HRV comparable to the Control Typically Developed (CTD) group. In contrast, individuals with DMD undergoing pharmacotherapies with Deflazacort achieved lower HRV, akin to individuals with DMD without any medications, as demonstrated in the metrics: RMSSD; LF (n.u.), HF (n.u.), LF/HF; SD1, $\alpha 1$, and $\alpha 1/\alpha 2$, and a significant effect for SD1/SD2; %DET and Ratio; Shannon Entropy, 0 V%, 2 LV% and 2 ULV%. Conclusions: Corticosteroids have the potential to affect the cardiac autonomic modulation in adolescents with DMD. The use of Prednisone/Prednisolone appears to promote improved responses in terms of sympathovagal activity as opposed to Deflazacort ¹⁾.

¹⁾

Dias RM, Hoshi RA, Vanderlei LCM, Monteiro CBM, Alvarez MPB, Crocetta TB, Grossklauss LF, Fernani DCGL, Dantas MTAP, Martins FPA, Garner DM, Abreu LC, Ferreira C, da Silva TD. Influence of Different Types of Corticosteroids on Heart Rate Variability of Individuals with Duchenne Muscular Dystrophy-A Pilot Cross Sectional Study. Life (Basel). 2021 Jul 27;11(8):752. doi: 10.3390/life11080752. PMID: 34440496; PMCID: PMC8398672.

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