

Clinical Feature Summary Statistics

Feature	HC μ (σ)	PD μ (σ)	p-value	Cohen's d
f0 mean	160.7424 (34.5757)	157.3992 (36.6953)	0.178	-0.09
f0 std	28.3588 (31.3518)	16.6599 (18.5161)	<0.001	-0.45
jitter local	0.0137 (0.0109)	0.0113 (0.0111)	<0.01	-0.22
jitter rap	0.0066 (0.0053)	0.0051 (0.0057)	<0.001	-0.27
jitter ppq5	0.0073 (0.0059)	0.0052 (0.0053)	<0.001	-0.37
shimmer local	0.0869 (0.0523)	0.0516 (0.0399)	<0.001	-0.76
shimmer apq3	0.0399 (0.0277)	0.0193 (0.0144)	<0.001	-0.93
shimmer apq5	0.0537 (0.0378)	0.0255 (0.0192)	<0.001	-0.94
hnr mean	17.2860 (7.3524)	22.6875 (6.9203)	<0.001	0.76

Note: Bold p-values indicate statistical significance ($p < 0.05$). HC = Healthy Controls, PD = Parkinson's Disease.