

	Pros	Cons	Formula
standard z-score	<ul style="list-style-type: none"> + Useful for extracting continuous values for analysis + Widely used and easily interpreted 	<ul style="list-style-type: none"> - May not be as useful for finding outliers as alternatives 	$\frac{x_i - \mu}{\sigma}$
baseline z-score	<ul style="list-style-type: none"> + Useful for finding outliers + Continuous z-scores can still be interpreted in standard language 	<ul style="list-style-type: none"> - Typically not appropriate to statistically compare time periods within single trials 	$\frac{x_i - \bar{x}_{baseline}}{s_{baseline}}$
modified z-score	<ul style="list-style-type: none"> + Can be more effective finding outliers in smaller data sets 	<ul style="list-style-type: none"> - Not used as commonly as other methods of standardization - Difficult to interpret in plain language 	$\frac{0.6745(x_i - \tilde{x})}{MAD}$
% change from baseline	<ul style="list-style-type: none"> + Great for interpretation and graphing purposes 	<ul style="list-style-type: none"> - Typically not appropriate to statistically compare time periods within single trials - Does not account for time series deviations 	$\frac{x_i - \bar{x}_{baseline}}{\bar{x}_{baseline}}$