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| **Name of statistical test** | **Number of experimental conditions/**  **Treatments**  **(e.g., control and exercise)** | **Subjects (same subjects or different subjects used in the different treatment groups)** | **Are there numerous time points of data collected in each condition? (YES/NO)** | **Assumptions** | **Example study design using this test** |
| Paired t-test  (AKA: dependent-samples t-test) | 2 | same | no | Each person is their own control | Same person normal vs deep breathing on RSA |
| Unpaired t-test  (AKA: Student’s or Independent t-test) | 2 | different | no | Same number of matched subjects in each group | Males vs females comparing lung volume |
| One-way ANOVA | 3 or more | different | no | No repeated measures of condition or time | Different people are assigned to resting, fidgeting, or standing to measure metabolism |
| One-way repeated measures ANOVA | 3 or more | Same | no | Repeated measures in the same person over multiple conditions | Same person does three different measures (lying, sitting, and standing BP) |
| Two-way repeated measures ANOVA | 3 or more | Same (or different with repeated time points) | yes | Repeated measures of either condition and/or time | Three ingested solutions tested in different groups of people over multiple time points |
| Correlation | n/a | n/a | n/a |  | Height compared to blood pressure seated in toe |