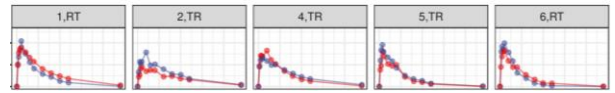
Dataset: **2x2 BE test**




NCA (Commercial S/W)

Data modification

File type conversion

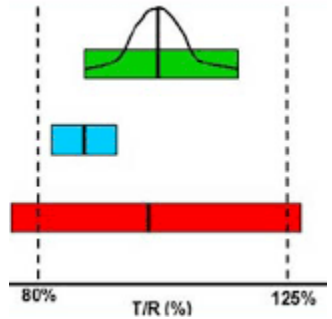
BE test (Commercial S/W)

Edison Science App:
**NonCompartEdison**

Edison Science App:
**edisonBE**

EDISON

Simple,
seemless,
open-source,
reproducible,
costless,
and fast process




Output:
- **ANOVA table**
- **90% CI of**
  **GMR of $C_{max}$, AUC**
- **Sample size calculation**

**1. ANOVA Table**

```
> print(test2x2(NCAResult4BE, "AUClast"), na.print="")
$`Analysis of Variance (log scale)`
                            SS DF            MS           F           p
SUBJECT          2.875497e+00 32 8.985928e-02 3.183942248 0.0008742828
GROUP            1.024607e-01  1 1.024607e-01 1.145416548 0.2927731856
SUBJECT(GROUP)   2.773036e+00 31 8.945279e-02 3.169539016 0.0009544080
PERIOD           3.027399e-05  1 3.027399e-05 0.001072684 0.9740824428
DRUG             3.643467e-02  1 3.643467e-02 1.290972690 0.2645764201
ERROR            8.749021e-01 31 2.822265e-02
TOTAL            3.786834e+00 65
```

**2. Variability**

```
$`Between and Within Subject Variability`
                                  Between Subject Within Subject
Variance Estimate                      0.03061507     0.02822265
Coefficient of Variation, CV(%)       17.63193968    16.91883011
```

**3. LSM**

```
$`Least Square Means (geometric mean)`
                  Reference Drug Test Drug
Geometric Means         5092.098  4858.245
```

**4. 90% CI of GMR**

```
$`90% Confidence Interval of Geometric Mean Ratio (T/R)`
                  Lower Limit Point Estimate Upper Limit
90% CI for Ratio     0.889436       0.9540753    1.023412
```

**5. Sample size**

```
$`Sample Size`
                          True Ratio=1 True Ratio=Point Estimate
80% Power Sample Size                6                        7
```