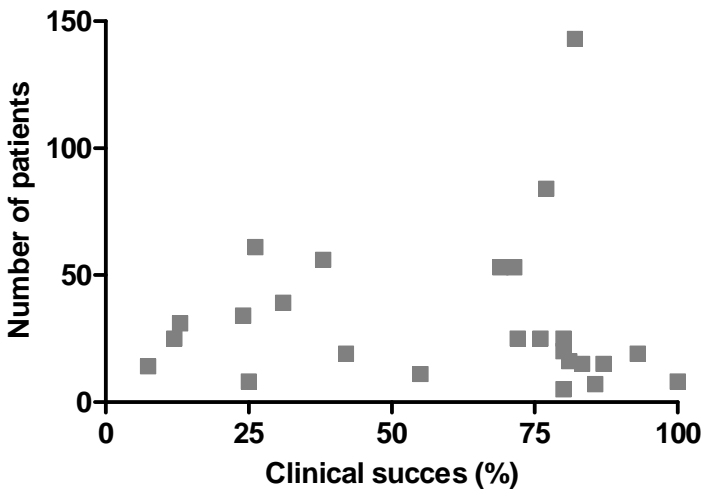


a. Mann-Whitney U-test: $p = 0.303$
 Spearman's rank correlation test: $r = -0.046, p = 0.853$



b. Mann-Whitney U-test: $p = 0.065$
 Spearman's rank correlation test: $r = -0.343, p = 0.109$