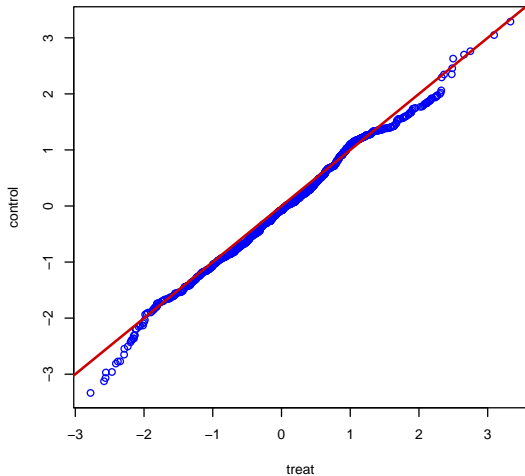


Section 6 : QQ – plots

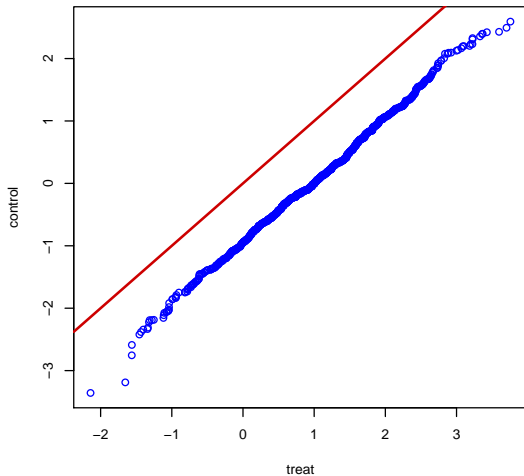
Yotam Shem-Tov

Fall 2014

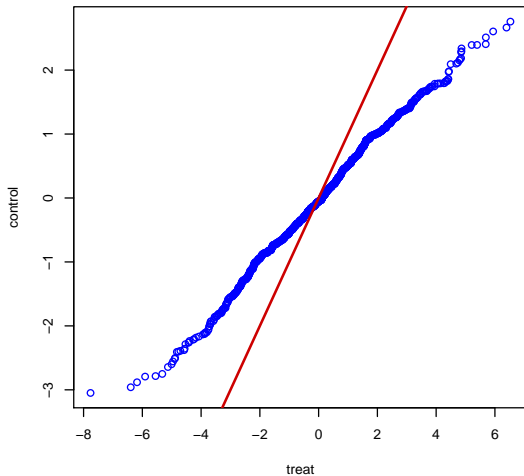
- QQ-plots are useful to compare distributions, and not only the means, variance or median
- The KS-test can be presented in QQ-plot as the largest deviation from the 45 degree line
- In the next figures we are going to compare two distributions, for example the treatment and the control, and try to guess from which distributions the data was generated



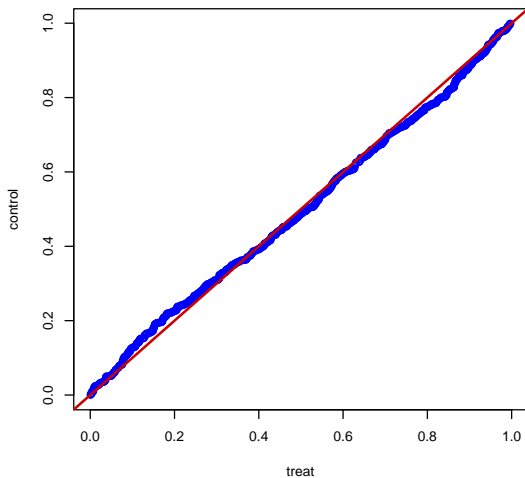
$treat \sim N(0, 1)$ and $control \sim N(0, 1)$



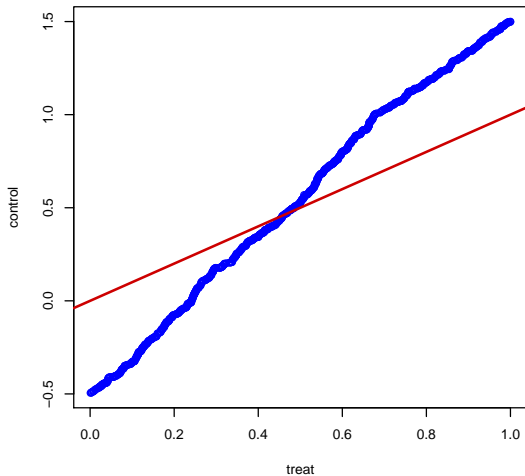
$treat \sim N(1, 1)$ and $control \sim N(0, 1)$



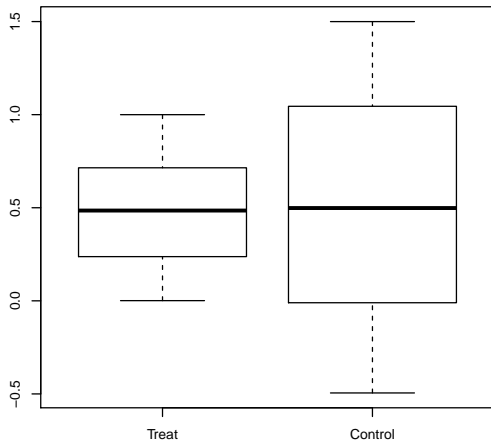
$treat \sim N(0, 2)$ and $control \sim N(0, 1)$



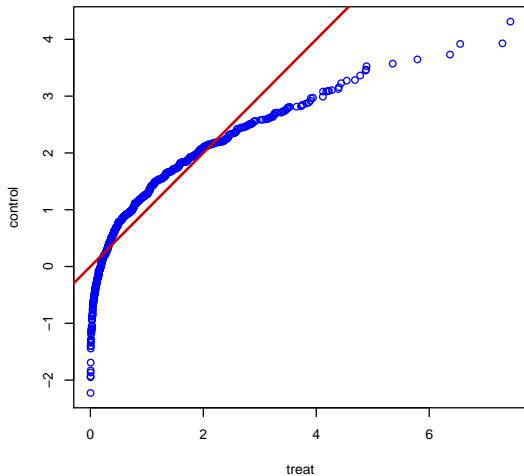
$treat \sim Unif(0, 1)$ and $control \sim Unif(0, 1)$



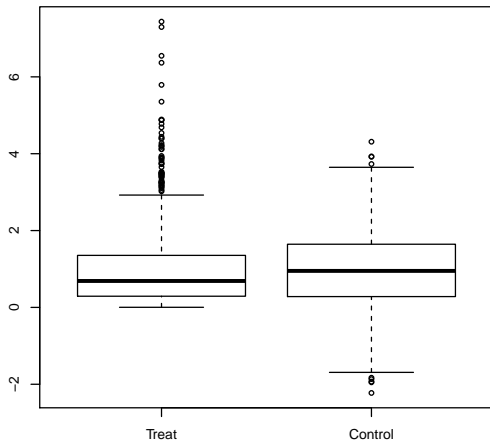
$treat \sim Unif(0, 1)$ and $control \sim Unif(-0.5, 1.5)$



$treat \sim Unif(0, 1)$ and $control \sim Unif(-0.5, 1.5)$



$treat \sim \exp(\lambda = 1)$ and $control \sim N(1, 1)$



$treat \sim \exp(\lambda = 1)$ and $control \sim N(1, 1)$