case 1 (less overlap)

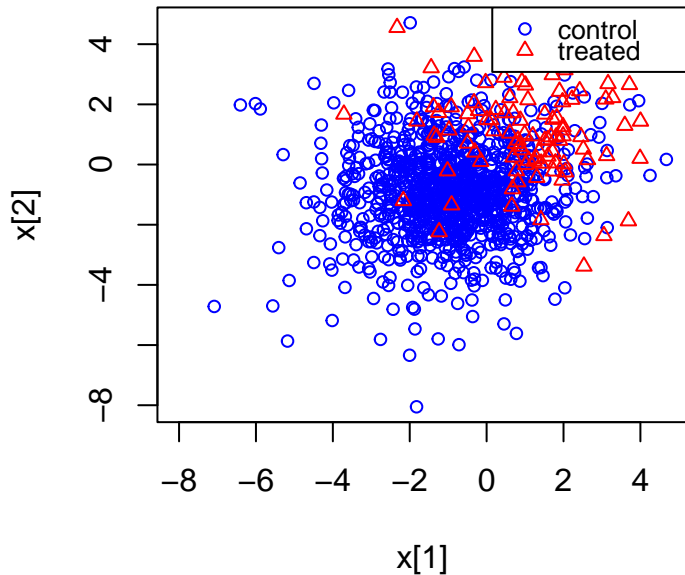**case 2 (more overlap)**