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|  | **Outcome Present** | **Outcome Absent** |
| **Treated/Exposed (Y)** | **a**  Outcome present in treated patient | **b**  Outcome absent in treated patient |
| **Control/Not exposed (X)** | **c**  Outcome present in control patient | **d**  Outcome absent in control patient |

* **Relative Risk** = RR = Y/X = a/(a + b) / c/(c + d)
* **Relative Risk Reduction** = RRR = (1 – RR) x 100
  + Percent reduction in risk in treated vs. control group
  + A RRR of 25% means the treatment reduced the risk of death by 25% relative to that occurring in control patients.
* **Absolute Risk Reduction** = ARR = X – Y
* **Number Needed to Treat** = NNT = 1/ARR = 1/(X-Y)
  + How many patients must be treated to prevent one bad outcome?