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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?