## Talking about risk: a side-by-side comparison

Assume a scenario in which a physician is trying to explain to a patient the risks of heart attack and the potential benefits of taking a certain drug. The chance of a heart attack over the next eight months if the patient takes the drug is 3%, and the chance of a heart attack if the patient does not take the drug is 5%.

Format	Formula	Statement
Absolute risk reduction	5% - 3% = 2%	Taking the drug reduces the risk of heart attack by 2 percentage points; that is, if 100 people take the drug there will be two fewer heart attacks than if they did not take the drug.
Relative risk	3% ÷ 5% = 60%	The chance of heart attack for people who take the drug is 60% that of people who do not take the drug.
Relative risk reduction	100% - (3% ÷ 5%) = 40%	The drug lowers the risk of heart attack by 40%.
Source: Steven Woloshin MD MS VA Outcomes Group White River Junction Vt		