Conditional Probabilities...

PERSONS

Smoke? Develop Lung Ca.?

YES — YES / NO

NO — YES / NO

PERSONS

Develop Lung Ca.? Smoke?

YES — YES / NO

NO — YES / NO

Testing Dx Tests...

Disease Test

+ — + / −

− — + / −

Dx Tests In Practice...

Test Disease

+ — + / −

− — + / −

O. J. SIMPSON

Murdered wife? DNA Match?

YES — YES / NO

NO — YES / NO

O. J. SIMPSON

DNA Match? Murdered wife?

YES — YES / NO

NO — YES / NO