

In this analysis we have used multiple regression to predict the number of sex partners reported by respondents during the past year as a linear, additive function of respondent's age, education, gender, and health status. Age and education are coded in years, and gender is a binary (or dummy) variable coded "1" if the respondent is female and "0" otherwise. Our health status indicator is derived from respondents' answers to the question "Would you say your own health, in general, is excellent, good, fair, or poor?" For this analysis, we created a dummy variable which was coded "1" if the respondent described their health status as "poor" and "0" if they said their health was excellent, good, or fair.

The results of our analysis (see below) indicate that our predictor variables account for 3.8% of the variance in the number of sex partners reported. The number of partners declines with age ( $b = -.023$ ,  $se_b = .0013$ ,  $p < .00005$ ), but the rate of decline is not steep — 0.23 partners per decade of age. The number of reported sex partners also declines with education ( $b = -.031$ ,  $se_b = .0079$ ,  $p = .0001$ ) with the predicted difference between persons with 0 vs. 20 years of education being 0.624 partners (i.e., 20 times  $.031 = .062$ ). Net of the influence of other predictors, females are predicted to have 0.462 ( $se_b = .045$ ,  $p < .00005$ ) fewer partners per year than males. Contrary to the author's expectation, there was no statistically noteworthy difference in the number of sex partners reported by persons who said their health status was "poor" ( $p = 0.355$ ).

Variable(s) Entered on Step Number 4.. POORHLTH

Multiple R	.19538	Analysis of Variance			
R Square	.03817		DF	Sum of Squares	Mean Square
Adjusted R Square	.03781	Regression	4	2168.57598	542.14399
Standard Error	2.27905	Residual	10520	54640.41675	5.19405
		F =	104.37796	Signif F =	.0000

----- Variables in the Equation -----

Variable	B	SE B	95% Confdnce Intrvl B	Beta	T	Sig T
AGE	-.023087	.001373	-.025779 - .020395	-.164588	-16.810	.0000
FEMALE	-.462675	.044733	-.550359 - .374990	-.099097	-10.343	.0000
EDUC	-.031218	.007901	-.046705 - .015732	-.038608	-3.951	.0001
POORHLTH	-.106747	.115514	-.333177 .119682	-.009041	-.924	.3555
(Constant)	2.834540	.131390	2.576991 3.092088		21.574	.0000

End Block Number 3 All requested variables entered.