

QUIZ 22

Some students are in social fraternities. Some students are not. You want to know whether membership in a social fraternity influences whether people own a wooden paddle. What statistical test do you run?

You want to predict whether your favorite sports team will win. You have a bunch of predictor variables. What statistical test do you run?

You have all the same predictors, but now you want to predict how many points the basketball team will score. What statistical test do you run?

Athletes have an in-season and an off-season. Let's say it's a sport in which fall semester is on and spring semester is off. You want to know if their fall and spring semester GPAs differ. What statistical test would you run?

You take a gluten intolerance test. You test positive. What statistic tells you how much to trust that positive finding?

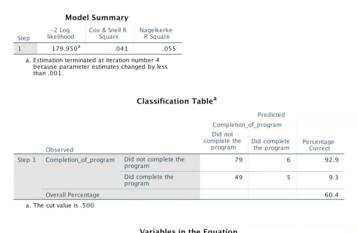
You want to compare fingernail length between men and women. What statistical test do you run?

				Cor	relations					
		gender	age	# of previous falls	# of return visits	acetaminoph en	aspirin	naproxen	ibuprofen	hydrocodone
gender	Pearson Correlation	1	024	053	.001	042	.034	.024	.008	025
	Sig. (2-tailed)		.546	.186	.980	.300	.396	.557	.843	.529
	N	617	617	617	611	617	617	617	617	617
age	Pearson Correlation	024	1	.173**	.136**	.018	.035	087°	022	.051
	Sig. (2-tailed)	.546		.000	.001	.657	.375	.028	.584	.196
	N	617	633	617	611	633	633	633	633	633
# of previous falls	Pearson Correlation	053	.173**	1	.701**	.032	061	015	013	.019
	Sig. (2-tailed)	.186	.000		.000	.427	.131	.719	.741	.637
	N	617	617	617	611	617	617	617	617	617
# of return visits	Pearson Correlation	.001	.136**	.701**	1	.028	044	034	039	.049
	Sig. (2-tailed)	.980	.001	.000		.497	.277	.399	.331	.222
	N	611	611	611	611	611	611	611	611	611
acetaminophen	Pearson Correlation	042	.018	.032	.028	1	.082*	023	.102	020
	Sig. (2-tailed)	.300	.657	.427	.497		.040	.557	.011	.611
	N	617	633	617	611	633	633	633	633	633
aspirin	Pearson Correlation	.034	.035	061	044	.082	1	.031	017	025
	Sig. (2-tailed)	.396	.375	.131	.277	.040		.437	.661	.535
	N	617	633	617	611	633	633	633	633	633

## Here's a statistical output about hospital patients in a fall risk study:

What statistical test was run? And explain one finding or relationship shown in this output.

Here's a statistical output about patients with cancer engaging in exercise:



What information can be extracted from this output?

		в	S.E.	Wald	df	Sig.	Exp(B)	95% C.I.for EXP(B)	
								Lower	Upper
Step 1 <sup>a</sup>	Age	.009	.017	.255	1	.614	1.009	.975	1.044
	Smoking_Status	789	.832	.900	1	.343	.454	.089	2.318
	Breast_Cancer	.795	.378	4.425	1	.035	2.213	1.056	4.641
	Constant	-1.370	1.157	1.402	1	.236	.254		