

Assignment 12: Due Dec 17, 2017

* Please name your homework file as 'Assignment12_your name.pdf' in pdf format and send it at biostat_sjtu@163.com , thanks for your cooperation.

1. The chair of the psychology department sent a questionnaire to all students who graduated from the program during the past 10 years. One question asked whether the student attended a graduate program, and the type of program attended. Of the students returning questionnaires, 88 indicated that they were in or had completed a Ph.D. program. a. Can the chair assume that graduates of the department equally attended each of the seven programs?

<i>Program</i>	<i>Number of Students</i>
Clinical	12
Counseling	23
Developmental	8
Experimental	7
Industrial/Organizational	15
Physiological	5
Social	18

2. In a study concerned with the relationship between blood type and gastrohelcoma/gastric cancer. The results of this study are shown in the accompanying table.

Blood type	Gastrohelcoma	Gastric cancer	Normal
0	1980	20	250000
A	1340	18	210000
B	300	10	150000
AB	360	12	140000

Set up this study in formal statistical terms, and try to answer is there a relationship between blood type and gastrohelcoma/gastric cancer.