

## Case Study 3: Dressings

for February 10, 2012

Subjects will be recruited for a study to compare a new dressing for minor operations like wart removal to a standard dressing. Two sites will be selected on each subject, and wounds will be simulated at each site. Each subject will have the new dressing at one site and the standard dressing at the other.

Measurements will be made on several responses, including pain, level of infection, speed on healing, and others. Each response is a score on a scale, from 1 (worst) to 5 (best). For example, a subject might report their pain at the standard site as 3 and at the new site as 4. All measurements will be repeated at 7 days, 14 days and 42 days after surgery. Most wounds using the standard dressing are known to be healed within 42 days.

**Questions for consideration:** Provide advice to the experimenter on how the experiment should be done. How would you decide on the number of patients? Also describe how you would carry out the analysis of the resulting data. To answer these questions, you may really need additional information from the investigator. What additional information do you need? You may need to make up answers that would ordinarily be provided by the investigator.

**Groups:** Here are the groups that will work together on this case. The first student on each list will present the group's findings and should also organize group meetings. The groups should get together in the coming week and consider the case.

Group 1, Presentation:		Group 2, Presentation:		Group 3, Report:		Group 4, Report:	
Name	Email	Name	Email	Name	Email	Name	Email
Bryan	mcca0828	Wen	fanxx102	Jenny	dokke040	Alain	vando026
Zhou	fang0157	Matt	stear067	Joel	bear0201	Chris H	hulme005
Jie	renxx034	Emily	pech0081	Rachel	vonb0035	Sarah	jaco0654
Chris D	desja004	Greg	schae029	Qi	yanxx195	Yu-Feng	chang648
Felipe	acosta	Garrett	lepa0050	Xiaoyi	zhuxx212	Xin	zhan0648
				Lindsey	diet0146		

*Presentation groups:* The presenter will have 12 minutes of class time to say what the team thought about the problem. To ease switching between groups, we will use my computer for all presenters, so if you choose to make a digital presentation, please email the slides to me by 2pm, or bring them on a thumb drive and arrive five minutes early. PDF format is preferred.

*Report groups:* Please email your report to me (PDF format preferred) by 2pm so I can make copies for the class. Your report should be at least one page long, but no more than two pages.