

28 June 2008 UCR Biostat Seminar Minutes

Attendees:

Jeff Klein,
Xinping Cui
Bushi Wang, Rebeca Le, Zhanpan Zhang, Judy Li, Gabriel Murillo, Jeff Pettyjohn
Daniel Bolton, Xiaohong (Natasha) Che, Ha Yu

Time : 2:30-5:30pm, June 28, 2008

Location: STAT2674, UC Riverside

Summary: Six champions present their work in-progress during week 2 and Jeff provides some feedback during the presentation. The presentation is in the following order:

(1) Gabriel Murillo

Title: Week 2 Progress of the Bleeding Time / Bleeding Volume Clinical Trial

Summary: Gabriel just presented his initial thoughts on his proposed statistical analysis and a first rough draft of the protocol as requested by Dr. Gokhale. He also asked for clarification from Dr. Klein on certain aspects of the clinical trial.

Jeff's feedback: Good progress. Send draft protocols to Dr. Klein and allow him to edit them.

To do list for Jeff: Be available to answer questions as they arise.

To do list for Gabriel: Finish the proposed statistical analysis and sample size determination for the project.

(2) Jeff Pettyjohn:

Title: Reanalyze Dr. Klein's Data

Summary: Introduced the definition of heteroscedasticity. Performed Nyblom and Makelainen's locally most powerful invariant test and confirmed the existence of heteroscedasticity. Later Jeff showed some plan and progress in journal review.

Jeff's feedback: Good work.

To do list for Jeff Klein: Reimburse the expense to obtain the journal article.

To do list for Jeff Pettyjohn: Get the journal and start review.

(3) Bushi Wang

Title: Open-Drainage Liposuction Post-Operative Care

Summary: Reanalyzed Dr. Klein's data with the Weighted Least Square method and Wallis tolerance interval. Provide statistical support to Dr. Klein's preliminary analysis given on June 21. Suggest analyze the data with weighted least square method and carefully choose a weighting method. Present protocol for the open-drainage liposuction post-operative care clinical trial. Clarified several open issues with Dr. Klein.

Jeff's feedback: He is satisfied with the result of data analysis in the sense it provides him a good statistical model and the outcome agrees with his expectation. Dr. Klein suggests that a 99% tolerance interval with content 99.99% is more persuasive. Dr. Klein also explained some of the details on open-drainage liposuction post-operative care and the objective of the clinical trial. He agreed with me that this trial is a cross-over design.

To do list for Jeff: Upload more information about open-drainage liposuction post-operative care on the website.

To do list for Bushi: Read the book 'Clinical Trials' about cross-over trial and work on the protocol. Polish the data analysis method and make sure everyone is on the same page.

(4) Judy Li

Title: Tumescent Cefazolin for SSI Prophylaxis

Summary: To evaluate the efficacy of Tumescent Antibiotic for SSI Prophylaxis in female breast cancer treatment. Two hypotheses were proposed and the trial design was planned. A work low chart has also been presented.

Jeff's feedback: We have to think about the hypotheses more, we also need to consult the physicians to consent on the details about the trial.

To do list for Jeff: send Judy his phase II proposed protocol and more references, also make appointment with the physician

To do list for Judy: double check the design part, and the corresponding model

(5) Zhanpan Zhang

Title : Laser Assisted Liposuction

Summary: Literature research including the overview of the laser assisted liposuction procedure, and the claimed "advantage" of laser assisted liposuction compared to the traditional liposuction; Proposed experimental design; Open issues such as quantitative measurements and laser setting, etc

Jeff's feedback: Explanation of the advantage claimed by the reference; Comments on the proposed experimental design.

To do list for Jeff: the possibility of obtaining some quantitative measurement.

To do list for Zhanpan: More literature research along with the statistical issues

(6) Rebeca Le

Title: Critique and re-analyze for Moy's paper

Summary: Present complete outline for a potential review paper. Show complete work for re-analysis for objective 1; partial work for objective 2 and request formula for objective 3;

Jeff's feedback: write practical explanation for time effect notation. Keep in mind that the target audience are non-statisticians.

To do list for Jeff: provide formula to calculate amount of lidocaine remove from liposuction.

To do list for Rebeca: Keep working on the remaining parts based on the approval outline and start writing the review.