

## Lab 6 Group Project – Discussion 1B

### Prompts for each Group:

For all presentations/write-up, include an Introduction that discusses any relevant background information. This can include what research has been done previously (i.e. summary of previous scientific literature), what question you are trying to answer and why it's important.

#### A: Donor age (dage) by failed and non-failed transplants during the first two years posttransplantation (cens)

- **Research Question: Is there evidence that the mean donor age differs between non-failed and failed kidneys? Include results for both the Graphical Approach and 2-Sample Test.**
  - Graphical approach: Compute 95% and 80% Confidence Levels at both levels of cens, Give a brief explanation of each confidence interval. Also include how our conclusions may possibly differ if we use a 80% CI versus a 95% CI.
  - 2-Sample Test: Run a two-sample test (figure out if it's z or t-test). Be sure to list your assumptions, what you did for your analysis, and your statistical and practical decisions.

#### B: Cold Ischemia Times

- **Research Question: Is the average cold ischemia time 24 hours for all first cadaver renal transplants.**
  - Conduct a hypothesis test for this question at  $\alpha=0.01$  and  $\alpha=0.05$ . Be sure to list your assumptions, what you did for your analysis, and your conclusions. Also include how your conclusions may possibly differ with different alpha levels
  - Also include summary statistics on **cith** along with one graphical display (i.e boxplot, histogram, etc.) that best summarizes the data

#### C. Donor Age by Excellent and Poor Subgroups

- **Research Question: Do poor and excellent subgroups differ?**
  - Graphical approach: Compute 95% Interval at poor and excellent levels, Give a brief explanation of each confidence interval and plot them.
  - 2-Sample Test: Run a two-sample test (figure out if it's z or t-test). Be sure to list your assumptions, what you did for your analysis, and your statistical and practical decisions.
  - Include Summary Statistics on each subgroup and display your boxplots for each subgroup.

#### D. Donor Age by private and university type subgroups

- Research Question: Does donor age differ between private and university type subgroups?
  - Graphical approach: Compute 95% Interval at private and university levels, Give a brief explanation of each confidence interval and plot them.
  - 2-Sample Test: Run a two-sample test (figure out if it's z or t-test). Be sure to list your assumptions, what you did for your analysis, and your statistical and practical decisions.
  - Include Summary Statistics on each subgroup and display your boxplots for each subgroup.

**Group Assignments:**

<b>Group</b>	<b>Members</b>	<b>Contact Information</b>
<b>A</b>	<b>Sia</b>	siabharucha@ucla.edu
	<b>Leslie</b>	youngaiko@ucla.edu
	<b>Yadira</b>	yadiramelissa@ucla.edu
	<b>Arjun</b>	arjungsi@ucla.edu
	<b>Bethany</b>	bbullock88@ucla.edu
<b>B</b>	<b>Angelique</b>	angeliquec@ucla.edu
	<b>Shania</b>	shaniaxjin@ucla.edu
	<b>Leon</b>	leonlavong27@ucla.edu
	<b>Saebean</b>	saebean@ucla.edu
	<b>Mashal</b>	mashalmalik@ucla.edu
<b>C</b>	<b>Vishwa</b>	vishdaone@ucla.edu
	<b>Frederick</b>	freddiek332@ucla.edu
	<b>Justin</b>	justinluu@ucla.edu
	<b>Michael</b>	mpresunka@ucla.edu
	<b>Steven</b>	steventran19@ucla.edu
<b>D</b>	<b>Avani</b>	avaniperera@ucla.edu
	<b>Lauren</b>	laurenyuna@ucla.edu
	<b>Wanting</b>	chloeg@ucla.edu
	<b>Shivani</b>	shivanikolla123@ucla.edu
	<b>Sei</b>	illesei@ucla.edu
	<b>Ameen</b>	ameens@ucla.edu