Statistics Needed/Questions to Answer

1. How many total patients are present in the study? 🡪42

2. How many patients underwent TA (0) and how many underwent GH (1) 🡪 32 TA/10 GH

3. What is the average age for the entire group? 🡪62.0±17.4

4. What is the average age for the patients that underwent TA (0)? 🡪61.6±17.3(n=32)

5. What is the average age for the patients that underwent GH (1)? 🡪63.1±18.5(n=10)

6. Perform stats to determine if there is any difference between the **ages** of the two groups

🡪 p=0.5348 (Wilcoxon-Mann-Whitney test)

7. Perform similar calculations as questions 4/5/6 for **Gender**

Female = 65.1±14.1 (n=28) / Male = 55.7±21.7(n=14)/ P=0.2346

8. Perform similar calculations as questions 4/5/6 for **Smoking**

Non-Smoking= 62.6±17.6 (n=37) /Smoking = 57.0±16.8(n=5)/ P=0.4368

9. Perform similar calculations as questions 4/5/6 for **Insurance type**

Government= 62.6±17.6 (n=37) /Private = 57.0±16.8(n=5)/ P=0.4368

10. Perform similar calculations as questions 4/5/6 for **days in hospital**

11. Perform similar calculations as questions 4/5/6 for **days in ICU**

12. Perform similar calculations as questions 4/5/6 for **Follow up**

13. What was the time to **definitive XR fusion** for each technique and is there a difference between the two groups?

14. What was the time to **definitive CT fusion** for each technique and is there a difference between the two groups?

15. Plot the XR angle and distance measurements and perform statistics and make graphs to see if there are any trends

16. Calculate the **implant cost** for the techniques (**note that there are 3 groups now labeled 1,2,3**) and determine if there is a statistical difference between the 3

17. Perform a similar calculation as #16 but for **total cost**

18. Calculate if the difference in **complication rate** between the two techniques is significant