Analysis Report: The Impact of Neurobehavior on Feeding Outcomes in Neonates with Congenital Heart Disease

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# Abstract

# Data

The NNNS score dataset consists of a single-center retrospective cohort of infants aged 0 to 4 weeks with congenital heart disease (CHD). Each of the infants underwent surgery and received at least one pre-operative or post-operative Neonatal Intensive Care Unit Network Neurobehavioral Scale (NNNS) score between August 2015 to October 2017. There were 132 infants admitted to the cardiac intensive care unit during the study period. Of those 132 infants admitted during the study period, four were excluded due to congenital upper airway or neurological abnormality.

# Research Objectives

1. Investigate the relationship between lower pre- and post-op attention scores and the percentage of oral feeds at the time of discharge.
2. Investigate whether lower pre- and post-op attention scores are associated with extended time to achieve full oral feeds following surgery.

# Statistical Methods

* Copy and paste from the SAP (but not the imputation part), make a note about the imputation being provided by Haojia (Don’t get into the details too much) (Sophie)

# Result

[Summary of results] (To each their own)

## Tables and Figures (Sophie)

Table. Descriptive Summary (Sophie)

Figure. Histogram

Figure Plots of % Oral Feeds by Pre- and Post-Op Attention Scores

Table. Odds Ratios from the Regression

Table. Cox Regression

Table Pre-Attention Scores results

Table. Post Attention Score results

# Discussion

# Additional Information

## Guidelines for Authorship

In general, authorship is merited and expected for PHR/SDBC statisticians and collaborators. Exceptions may be made if the number of authors is limited by the journal, but please discuss with the PHR/SDBD collaborators. The criteria for authorship by the International Committee of Medical Journal Editors can be found online at: <https://medicine.utah.edu/ccts/sdbc/publish.php>.

PHR/SDBC Policy requires manuscripts, posters and abstracts be made available to PHR/SDBC statisticians and collaborators with reasonable time (1 week+ for papers) prior to submission.

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