HeartFlow Data Analyst Exercise

Meaning of Data

Unique Id: It is the unique identifier for each patient's submitted CT scans

Case State: It includes completed and returned, completed means cases get reviewed by analysts and sent to customers; returned means the case cannot be processed due to quality issues.

Site: The unique identifier for the hospital that submitted the unique id.

CTQ: the CT quality of each unique id including Borderline, OK, Excellent.

Disease Burden: The amount of disease in the case including Low, Moderate, High.

*The CTQ and Disease Burden are qualitative scores given by analysts visually.

Returned Reason: It is specific quality issues when unique Id gets returned, including Motion, Noise, S-Misalignment, G Low Contrast, A-Anatomy, Bypass, M-Stents, C-Myocardium, C-Coronaries, IM-Hardware, Unsupported RA, GLC, Misalignment, NCP and Other.

IQ Score: the score is in the range from 0 - 1, 0 represents poor image quality and 1 represents perfect image quality.

Questions to Answer

- 1. Are there any trends in why cases are being returned?
- 2. What steps did you take to set up the analysis?
- 3. How does the CTQ/Disease Burden assessment relate to the IQ scores?
- 4. Present a summary of interesting findings.

How to Submit Exercise

When submitting your exercise, please include the following in an email to dasmith@heartflow.com

- 1. A slide deck (can be PDF) that includes answers to the questions and the findings.
- 2. Readable version of the actual sheets/code you used to generate the analysis.