

# SMART Weight Loss: Analytics for February 2021 Submission

December 14, 2020

## 1 How many individuals did we consider and what percentage had missing data?

Table 1: First Column: Total number of individuals in APP ONLY arm (excluding one individual with data issue); Remaining Columns: Percent with no weights

Total No. Individuals	No weight on Day 1	No weight on Day 4	No weight on Day 7	No weight on Day 1, 4, or 7
184	3.804	11.413	16.304	25.543

## 2 Can we identify App nonresponders during the first week of treatment?

Table 2: CART Only

	Sensitivity	Specificity
Training	0.773	0.737
Validation	0.875	0.800

Table 3: Overall Decision Rule

	Sensitivity	Specificity
Training	0.886	0.368
Validation	0.938	0.400

## 3 Is predicted response status at week 8 predictive of weight loss at month 3?

Table 4: Estimates of Parameters in a Logistic Regression Model

	Estimate	Std. Error	z value	Pr(> z )
beta0	-0.288	0.242	-1.191	0.234
beta1	-0.635	0.287	-2.213	0.027

#### 4 Is predicted response status at week 8 predictive of weight loss at month 6?

Table 5: Estimates of Parameters in a Logistic Regression Model

	Estimate	Std. Error	z value	Pr(> z )
beta0	-0.305	0.249	-1.226	0.220
beta1	-0.751	0.300	-2.501	0.012