Summary Table for Abalone Clean

Melinda Higgins

4/22/2022

This is a quick summary statistics table for the cleaned abalone dataset.

library(arsenal)  
tab1 <- tableby(adult ~ sex + length,  
 data = abalone\_clean)  
summary(tab1, pfootnote = TRUE)

|  | adult (N=2834) | immature (N=1335) | Total (N=4169) | p value |
| --- | --- | --- | --- | --- |
| **sex** |  |  |  | < 0.0011 |
| F | 1306 (46.1%) | 0 (0.0%) | 1306 (31.3%) |  |
| I | 0 (0.0%) | 1335 (100.0%) | 1335 (32.0%) |  |
| M | 1528 (53.9%) | 0 (0.0%) | 1528 (36.7%) |  |
| **length** |  |  |  | < 0.0012 |
| Mean (SD) | 0.570 (0.096) | 0.428 (0.109) | 0.524 (0.120) |  |
| Range | 0.155 - 0.815 | 0.075 - 0.725 | 0.075 - 0.815 |  |

1. Pearson’s Chi-squared test
2. Linear Model ANOVA

Here is another table of the dimension measurements.

tab1 <- tableby(adult ~ length + diameter + height,  
 data = abalone\_clean)  
summary(tab1, pfootnote = TRUE)

|  | adult (N=2834) | immature (N=1335) | Total (N=4169) | p value |
| --- | --- | --- | --- | --- |
| **length** |  |  |  | < 0.0011 |
| Mean (SD) | 0.570 (0.096) | 0.428 (0.109) | 0.524 (0.120) |  |
| Range | 0.155 - 0.815 | 0.075 - 0.725 | 0.075 - 0.815 |  |
| **diameter** |  |  |  | < 0.0011 |
| Mean (SD) | 0.446 (0.079) | 0.327 (0.088) | 0.408 (0.099) |  |
| Range | 0.110 - 0.650 | 0.055 - 0.550 | 0.055 - 0.650 |  |
| **height** |  |  |  | < 0.0011 |
| Mean (SD) | 0.154 (0.033) | 0.108 (0.032) | 0.139 (0.039) |  |
| Range | 0.015 - 0.515 | 0.010 - 0.220 | 0.010 - 0.515 |  |

1. Linear Model ANOVA