ED Use Predictions

PCL, PCM and Adolescent WCC Population

Low Acuity (4&5):

Call:

glm(formula = High.ED.Utilization.Indicator ~ Age.Group + Problem.Count +

CCC.Count + CCC.Congenital + CCC.Hem.Imm + CCC.Neonatal +

CCC.Renal + ED.Checkin.Hour.Metric + Med.Date.Time.Ind +

Acute.URI.DX + Asthma.DX + Viral.Agents.DX + Prior.ED.Visit.Count +

Race.and.Ethnicity.Group + ED.Shift + Season, family = binomial(logit),

data = EDPredictorsLowAcuityPC.2016.df)

Deviance Residuals:

Min 1Q Median 3Q Max

-2.3794 -0.2672 -0.1495 -0.0730 3.2630

Coefficients:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -31.09539 723.70656 -0.043 0.965728

Age.Group1 thru 3 years 13.57736 552.25724 0.025 0.980386

Age.Group13 years or more 12.98054 552.25732 0.024 0.981248

Age.Group3 thru 11 months 14.79175 552.25725 0.027 0.978632

Age.Group4 thru 12 years 12.83765 552.25725 0.023 0.981454

Problem.Count 0.07128 0.02565 2.779 0.005451 \*\*

CCC.Count -0.96255 0.26411 -3.645 0.000268 \*\*\*

CCC.Congenital 0.87910 0.52032 1.690 0.091115 .

CCC.Hem.Imm 1.65434 0.47109 3.512 0.000445 \*\*\*

CCC.Neonatal 2.00076 0.89138 2.245 0.024796 \*

CCC.Renal 1.11718 0.55942 1.997 0.045822 \*

ED.Checkin.Hour.Metric -0.05795 0.03399 -1.705 0.088220 .

Med.Date.Time.Ind 0.43592 0.16940 2.573 0.010071 \*

Acute.URI.DX 0.53871 0.18836 2.860 0.004237 \*\*

Asthma.DX 0.44442 0.21033 2.113 0.034605 \*

Viral.Agents.DX -0.62766 0.29427 -2.133 0.032928 \*

Prior.ED.Visit.Count 2.43817 0.11409 21.370 < 2e-16 \*\*\*

Race.and.Ethnicity.GroupBlack or African American 14.58230 467.72105 0.031 0.975128

Race.and.Ethnicity.GroupHispanic or Latino 14.69162 467.72104 0.031 0.974942

Race.and.Ethnicity.GroupOther 14.37626 467.72109 0.031 0.975479

Race.and.Ethnicity.GroupWhite 13.65357 467.72145 0.029 0.976712

ED.ShiftEvening 0.53967 0.31651 1.705 0.088187 .

ED.ShiftOvernight -1.06676 0.39369 -2.710 0.006736 \*\*

SeasonQ2 -0.90255 0.20326 -4.440 8.98e-06 \*\*\*

SeasonQ3 -1.60602 0.23514 -6.830 8.49e-12 \*\*\*

SeasonQ4 -3.10786 0.29395 -10.573 < 2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 2449.7 on 4265 degrees of freedom

Residual deviance: 1274.9 on 4240 degrees of freedom

AIC: 1326.9

Number of Fisher Scoring iterations: 16







