# Annex 2

Summary of Logistic Regression Analysis for Variables Predicting ORD citations (n = 752)

glm(formula = OD\_citbin ~ s\_dom + Quality + ODR\_readsgrouped, data = slod)

Deviance Residuals:

Min 1Q Median 3Q Max

-0.13072 -0.00192 0.00383 0.00502 0.99808

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Coefficients | Estimate | Std.Error | t-value | Pr(>|t|) |
| (Intercept) | 0.001924 | 0.004762 | 0.404 | 0.68626 |
| S\_domFormal-Sciences | 0.031290 | 0.009487 | 3.298 | 0.00102 \*\* |
| S\_domHumanities | -0.012698 | 0.013095 | -0.970 | 0.33251 |
| S\_domNatural-Sciences | -0.006941 | 0.006158 | -1.127 | 0.26003 |
| S\_domSocial-Sciences | -0.005758 | 0.008464 | -0.680 | 0.49658 |
| Quality1 | -0.001505 | 0.007008 | -0.215 | 0.83003 |
| Quality2 | -0.010175 | 0.013662 | -0.745 | 0.45663 |
| Quality3 | 0.066028 | 0.020593 | 3.206 | 0.00140 \*\* |
| Quality4 | 0.005017 | 0.070315 | 0.071 | 0.94314 |
| ODR\_readsgrouped | 0.097509 | 0.013154 | 7.413 | 3.48e-13 \*\*\* |
| Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1  (Dispersion parameter for gaussian family taken to be 0.004923338)  Null deviance: 3.9781 on 728 degrees of freedom  Residual deviance: 3.5399 on 719 degrees of freedom  (23 observations deleted due to missingness)  AIC: -1793  Number of Fisher Scoring iterations: 2  χ 2 = .99, p > 0 (not significant)  McFadden R2 Index -0.04 (no model fit)  Hosmer & Lemeshow R2 Index 0.11 (low value) | | | | |