**Hospital quality and procedural variability correlation**

In the last analysis the survey scores for each of the hospitals were compared against procedural variability and average hospital quality. In order to accomplish this, 50 random hospitals were selected and their survey totals were compared against the average effective care score and the standard deviation of the effective care score. A sample of 10 out of the 50 hospitals are shown below.

|  |  |  |  |
| --- | --- | --- | --- |
| Hospital Name | survey total | avg\_score | score\_sd |
| JEWISH HOSPITAL & ST MARY'S HEALTHCARE | 33 | 92.10 | 51.99 |
| PHELPS COUNTY REGIONAL MEDICAL CENTER | 65 | 89.58 | 39.80 |
| ELKVIEW GENERAL HOSPITAL | 50 | 76.75 | 37.10 |
| SOUTHERN CALIFORNIA HOSPITAL AT HOLLYWOOD | 8 | 100.29 | 62.03 |
| GREAT RIVER MEDICAL CENTER | 18 | 81.45 | 39.20 |
| SOUTHERN REGIONAL MEDICAL CENTER | 13 | 100.93 | 68.56 |
| ST ALPHONSUS REGIONAL MEDICAL CENTER | 26 | 93.64 | 43.85 |
| USC VERDUGO HILLS HOSPITAL | 32 | 90.11 | 42.29 |
| HILL COUNTRY MEMORIAL HOSPITAL INC | 97 | 90.45 | 40.96 |

The data was exported offline and a correlation was calculated. For this sample, the correlation between the survey score total and the average score was -0.31 while the correlation was -0.48 between the survey score total and the variability measure. A separate execution yielded -0.38 and -0.35 respectively. While not strong, there seems to be some amount of negative correlation between the survey score and the hospital quality and procedural variability. Which is strange since a higher survey total score should suggest more patient satisfaction.