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| **Table S4: Analysis of Interactions Between Obesity and Other Independent Variables (P-Values)** |  |
| **Variable** | **Infection** | **Major Complication** | **Readmission** | **Revision** |
| Female Gender | 0.0000 | 0.0089 | 0.0004 | 0.0033 |
| Chronic Pulmonary Disease | 0.0256 | 0.0001 | 0.0774 | 0.1495 |
| Diabetes With Chronic Complications | 0.0006 | 0.0001 | 0.0448 | 0.2232 |
| Peripheral Vascular Disease | 0.2098 | 0.0954 | 0.1465 | 0.4825 |
| Myocardial Infarction | 0.2675 | 0.0004 | 0.0073 | 0.7134 |
| Renal Disease | 0.0728 | 0.0073 | 0.0060 | 0.9088 |
| >2 Levels Fused | 0.3660 | 0.0107 | 0.0980 | 0.6207 |
| Age ≥65 | 0.5378 | 0.0000 | 0.0034 | 0.5938 |
| Peptic Ulcer Disease | 0.0641 | 0.7398 | 0.0185 | 0.4306 |
| Medicare/Medicaid | 0.4739 | 0.0000 | 0.0931 | 0.6972 |
| TLIF or PLIF | 0.9086 | 0.0037 | 0.4384 | 0.0019 |
| Rheumatic Disease | 0.3816 | 0.0222 | 0.0186 | 0.9372 |
| Non-White Race | 0.3918 | 0.0006 | 0.1059 | 0.8866 |
| Mental Health Condition | 0.0570 | 0.8987 | 0.0091 | 0.4326 |
| Cerebrovascular Disease | 0.7666 | 0.0000 | 0.6118 | 0.0768 |
| ALIF | 0.1180 | 0.1405 | 0.9611 | 0.4450 |
| Diabetes Without Chronic Complications | 0.0086 | 0.5192 | 0.6112 | 0.7076 |
| Dementia | 0.1988 | 0.6089 | 0.5610 | 0.5413 |
| Congestive Heart Failure | 0.2250 | 0.0007 | 0.7733 | 0.9252 |
| Hemiplegia or Paraplegia | 0.7465 | 0.4040 | 0.7119 | 0.8855 |
| Mild Liver Disease | 0.8403 | 0.5730 | 0.9336 | 0.8605 |
| Note: Given the variable significance threshold in the Benjamini-Hochberg procedure, the absolute value of the p-value does not necessarily correspond to statistical significance. Thick borders denote statistical significance under the Benjamini-Hochberg procedure. |
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