**Supplemental Digital Content 3. Comorbid Conditions of Patients with and without Evidence of Preoperative Abnormal Cognition**

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| **Condition** | **With Abnormal Cognition (N = 430)** | **Without Abnormal Cognition (N = 683)** | **P valuea** |
| Hypertension | 331 (77%) | 506 (74%) | 0.309 |
| Coronary Artery Disease | 189 (44%) | 232 (34%) | 0.001 |
| Congestive Heart Failure | 93 (22%) | 103 (15%) | 0.007 |
| Atrial Fibrillation | 70 (16%) | 92 (13%) | 0.228 |
| Aortic Stenosis | 209 (49%) | 272 (40%) | 0.005 |
| Cerebrovascular Accident | 87 (20%) | 90 (13%) | 0.002 |
| Peripheral Artery Disease | 57 (13%) | 72 (11%) | 0.200 |
| Aorta Disease | 34 (8%) | 56 (8%) | 0.951 |
| Deep Venous Thrombosis | 38 (9%) | 45 (7%) | 0.203 |
| Pulmonary Embolism | 18 (4%) | 15 (2%) | 0.085 |
| Diabetes Mellitus | 150 (35%) | 180 (26%) | 0.003 |
| Chronic Kidney Disease | 114 (27%) | 139 (20%) | 0.021 |
| Pulmonary Hypertension | 73 (17%) | 78 (11%) | 0.011 |
| Chronic Obstructive Pulmonary Disease | 101 (23%) | 105 (15%) | <0.001 |
| Asthma | 40 (9%) | 54 (8%) | 0.481 |
| Obstructive Sleep Apnea | 109 (25%) | 124 (18%) | 0.005 |
| Cirrhosis | 7 (2%) | 7 (1%) | 0.547 |
| Gastroesophageal Reflux Disease | 205 (48%) | 264 (39%) | 0.004 |
| Cancer (excluding skin) | 195 (45%) | 354 (52%) | 0.041 |

a – P values refer to chi-square test