Supplemental Table 1

ICD-9 and ICD-10 Procedure Codes

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| **Cardiac Catheterization** |
| 37.22, 37.23, 37.26, 4A023N6, 4A023N7, 4A023N8, 02\*\*4\*\* |
| **Cardiac Surgery** |
| 35.\*\* - 37.\*\* (Open procedures), 02\*\*0\*\* |
| **Heart Transplant** |
| 37.51, 02YA0Z0 |
| **Ventricular assist device** |
| 37.66, 02HA0QZ |
| **Gastrointestinal Surgery** |
| 42.\*\* - 54.\*\* (Open or Laparoscopic Procedures), 0D\*\*\*\*\*, 0F\*\*\*\*\* |
| **Musculoskeletal Surgeries** |
| 76.\*\* - 84.\*\*, 0K\*\*\*\*\*, 0L\*\*\*\*\*, 0M\*\*\*\*\*, 0P\*\*\*\*\*, 0Q\*\*\*\*\*, 0R\*\*\*\*\*, 0S\*\*\*\*\* |

All Codes were searched in the dataset and then hand reviewed for applicability and accuracy.