



# Accreditation Council for Graduate Medical Education

## Vascular Surgery - Integrated Case Logs

### National Data Report

**Prepared by:** Department of Applications and Data Analysis

- I. National Resident Statistics Main Table
  - A. The main table provides a national picture of educational experiences. The report is ideal for establishing and assessing national policy related to resident practical experiences. Data are broken out by role (surgeon, assistant, etc), indicating the resident's procedures with primary credit. Procedures with secondary credit are also shown.
  - B. Descriptive statistics have been carefully chosen to provide the most useful information for judging performance at the national level.
    - i. "Natl Res AVE" - The national average describes the mean number of procedures performed per resident in the nation.
    - ii. "Natl Res STD" - The standard deviation of procedures performed nationally.
    - iii. "Natl Res MED" - The median of procedures performed nationally.
- II. National Benchmark Report for Resident Statistics

The table displays selected percentile and standard deviation benchmarks of resident averages. For example, a score at the 10th percentile indicates that 10% of residents achieved less than the value while the remaining 90% achieved more than the value. An adjacent table provides national resident benchmarks for the defined categories only.

The information on the following pages has been created using specialty specific categories. These data should not be used for comparison across specialties as the definition of the categories will vary among the specialties. In addition, care should be exercised when comparing data from year to year as the definition of certain categories may be revised from time to time.

# VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT REPORT (Main Table)

Reporting Period: Total Experience of Residents Completing Programs in 2018-2019

Residency Review Committee for Surgery

Report Date: September 30, 2019

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Number of Programs in the Nation: 43    Number of Residents in the Nation: 56

|                 |   | Surgeon Chief              |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |   |
|-----------------|---|----------------------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|---|
|                 |   | Natl Res AVE               | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |   |
| Area            | RRC Procedure                                 |                            |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |   |
| ANEURYSM REPAIR | OPEN REPAIR INFRARENAL A-I ANEURYSM,          | 1.1                        | 1            | 1            | 1.0            | 1            | 1            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 0.1                  | 0            | 0            |   |
|                 | OPEN REPAIR INFRARENAL A-I ANEURYSM, ELECTIVE | 6.1                        | 5            | 4            | 3.8            | 4            | 2            | 0.1          | 0            | 0            | 1.5          | 3            | 0            | 0.3                  | 1            | 0            |   |
|                 | ENDOVASCULAR REPAIR ABD AORTIC/ILIAC          | 21.8                       | 17           | 20           | 21.9           | 18           | 18           | 0.7          | 2            | 0            | 2.3          | 4            | 1            | 8.3                  | 8            | 7            |   |
|                 | ENDOVASCULAR REPAIR OF ILIAC ARTERY           | 1.4                        | 2            | 1            | 0.8            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 1.0                  | 2            | 0            |   |
|                 | REPAIR SUPRARENAL AORTIC ANEURYSM             | 1.1                        | 2            | 0            | 0.7            | 1            | 0            | 0.0          | 0            | 0            | 0.4          | 1            | 0            | 0.0                  | 0            | 0            |   |
|                 | REPAIR THORACIC AORTIC ANEURYSM               | 0.2                        | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                 | ENDOVASCULAR REPAIR THORACIC AORTIC           | 8.7                        | 7            | 9            | 8.1            | 9            | 6            | 0.6          | 1            | 0            | 0.7          | 1            | 0            | 3.4                  | 4            | 2            |   |
|                 | REPAIR THORACOABDOMINAL AORTIC ANEURYSM       | 1.5                        | 2            | 1            | 0.9            | 1            | 0            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 0.0                  | 0            | 0            |   |
|                 | REPAIR FEMORAL ANEURYSM                       | 2.7                        | 3            | 2            | 2.5            | 2            | 2            | 0.1          | 0            | 0            | 0.1          | 0            | 0            | 1.1                  | 2            | 0            |   |
|                 | REPAIR POPLITEAL ANEURYSM                     | 1.6                        | 2            | 1            | 1.2            | 2            | 1            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 0.0                  | 0            | 0            |   |
|                 | REPAIR OTHER ANEURYSM - DEF CAT CREDIT        | 0.5                        | 1            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |   |
|                 | Subtotal - ANEURYSM REPAIR                    | 46.7                       | 31           | 43           | 41.5           | 31           | 39           | 1.5          | 4            | 0            | 6.3          | 9            | 3            | 14.5                 | 11           | 13           |   |
| CEREBROVASCULAR | CAROTID ENDARTERECTOMY                        | 25.6                       | 21           | 23           | 28.2           | 24           | 21           | 0.7          | 1            | 0            | 2.5          | 4            | 1            | 0.7                  | 1            | 0            |   |
|                 | REOPERATIVE CAROTID SURGERY                   | 0.0                        | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.5                  | 1            | 0            |   |
|                 | TRANSCATHETER PLACEMENT CAROTID ARTERY        | 6.1                        | 7            | 4            | 5.3            | 6            | 2            | 0.1          | 0            | 0            | 0.9          | 2            | 0            | 0.3                  | 1            | 0            |   |
|                 | EXCISE CAROTID BODY TUMOR                     | 0.4                        | 1            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                 | VERTEBRAL BYPASS OR REIMPLANTATION            | 0.1                        | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |   |
|                 | DIRECT REPAIR AORTIC ARCH BRANCHES            | 0.4                        | 1            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |   |
|                 | TRANSLUMINAL BALLOON                          | 0.3                        | 1            | 0            | 1.1            | 2            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.9                  | 3            | 0            |   |
|                 | TRANSCATHETER PLACE OF INTRAVASC STENT,       | 0.9                        | 1            | 0            | 0.8            | 2            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.3                  | 1            | 0            |   |
|                 | CERVICAL BYPASS AORTIC ARCH BRANCHES          | 3.4                        | 3            | 3            | 2.9            | 3            | 2            | 0.1          | 1            | 0            | 0.5          | 1            | 0            | 2.4                  | 3            | 2            |   |
|                 | EMBOLECTOMY/THROMBECTOMY BY NECK OR           | 0.2                        | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |   |
|                 | OTHER MAJOR CEREBROVASCULAR - DEF CAT         | 0.7                        | 1            | 0            | 0.5            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |   |
|                 |   | Subtotal - CEREBROVASCULAR | 38.3         | 28           | 33             | 39.6         | 31           | 32           | 0.9          | 2            | 0            | 4.2          | 6            | 2                    | 5.6          | 6            | 4 |

Statistics for each role (surgeon chief, surgeon junior, teaching assistant, and first assistant) include only procedures for primary credit. Secondary procedures are shown separately and include all roles.

**VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT REPORT (Main Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 30, 2019**

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Number of Programs in the Nation: 43    Number of Residents in the Nation: 56

|        |  | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|--------|--|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|        |  | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area   | RRC Procedure                              |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| PERIPH | AORTO-ILIO/FEMORAL ENDARTERECTOMY          | 3.1           | 4            | 2            | 3.0            | 6            | 1            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 1.6                  | 2            | 1            |
|        | AORTO-ILIO/FEMORAL BYPASS, PROSTHETIC      | 5.3           | 5            | 4            | 4.2            | 4            | 3            | 0.3          | 1            | 0            | 0.9          | 2            | 0            | 0.6                  | 1            | 0            |
|        | AORTO-ILIO/FEMORAL BYPASS, VEIN            | 0.2           | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|        | TRANSLUMINAL BALLOON ANGIOPLASTY AORTA OR  | 11.3          | 11           | 9            | 16.5           | 13           | 13           | 0.8          | 1            | 0            | 0.6          | 1            | 0            | 31.7                 | 19           | 32           |
|        | TRANSLUMINAL ATHERECTOMY AORTA OR ILIAC    | 0.2           | 1            | 0            | 0.1            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.3                  | 1            | 0            |
|        | TRANSCATHETER PLACEMENT INTRAVASC STENT    | 5.8           | 7            | 3            | 4.6            | 7            | 2            | 0.1          | 0            | 0            | 0.4          | 1            | 0            | 3.8                  | 5            | 2            |
|        | ILIO-ILIAC/FEMORAL ENDARTERECTOMY          | 1.9           | 2            | 2            | 1.5            | 2            | 1            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 1.1                  | 2            | 0            |
|        | EXCISE INFECTED GRAFT, ABDOMEN OR CHEST    | 0.6           | 1            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.4                  | 1            | 0            |
|        | REPAIR GRAFT-ENTERIC/AORTO-ENTERIC FISTULA | 0.1           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 1            | 0            |
|        | FEMORAL, PROFUNDA ENDARTERECTOMY           | 12.6          | 13           | 10           | 12.6           | 11           | 9            | 0.5          | 1            | 0            | 1.2          | 2            | 0            | 20.5                 | 18           | 17           |
|        | FEMORAL-POPLITEAL BYPASS, VEIN             | 5.8           | 6            | 4            | 4.8            | 4            | 4            | 0.3          | 1            | 0            | 0.7          | 1            | 0            | 0.8                  | 1            | 0            |
|        | FEMORAL-POPLITEAL BYPASS, PROSTHETIC       | 3.9           | 4            | 3            | 5.2            | 5            | 4            | 0.3          | 1            | 0            | 0.6          | 1            | 0            | 1.4                  | 2            | 1            |
|        | TRANSLUMINAL BALLOON ANGIOPLASTY           | 20.3          | 20           | 18           | 29.5           | 21           | 24           | 1.5          | 4            | 0            | 1.0          | 2            | 0            | 22.9                 | 16           | 21           |
|        | TRANSLUMINAL ATHERECTOMY FEMORAL-POPLITEAL | 3.4           | 8            | 1            | 4.1            | 8            | 2            | 0.1          | 0            | 0            | 0.1          | 0            | 0            | 1.1                  | 2            | 0            |
|        | ENDARTERECTOMY, SUPERFICIAL FEMORAL,       | 1.5           | 3            | 0            | 2.1            | 3            | 1            | 0.1          | 0            | 0            | 0.2          | 0            | 0            | 4.8                  | 8            | 4            |
|        | INFRAPOPLITEAL BYPASS, VEIN                | 8.5           | 7            | 7            | 8.2            | 8            | 6            | 0.4          | 1            | 0            | 1.4          | 2            | 0            | 0.6                  | 1            | 0            |
|        | INFRAPOPLITEAL BYPASS, PROSTHETIC          | 2.8           | 3            | 2            | 2.3            | 3            | 1            | 0.1          | 0            | 0            | 0.3          | 1            | 0            | 0.4                  | 1            | 0            |
|        | TRANSLUMINAL BALLON ANGIOPLASTY,           | 8.6           | 8            | 7            | 12.6           | 16           | 7            | 0.6          | 2            | 0            | 0.5          | 1            | 0            | 10.8                 | 10           | 9            |
|        | TRANSLUMINAL ATHERECTOMY, TIBIOPERONEAL    | 2.2           | 5            | 0            | 2.1            | 3            | 1            | 0.1          | 0            | 0            | 0.0          | 0            | 0            | 1.3                  | 3            | 0            |
|        | TRANSCATHETER PLACE OF INTRAVASCULAR STENT | 0.5           | 1            | 0            | 1.4            | 3            | 1            | 0.1          | 0            | 0            | 0.1          | 0            | 0            | 2.3                  | 7            | 0            |
|        | EXCISE INFECTED GRAFT, PERIPHERAL          | 1.6           | 2            | 1            | 2.5            | 2            | 2            | 0.1          | 0            | 0            | 0.2          | 0            | 0            | 1.6                  | 2            | 1            |
|        | REVISE ARTERIAL BYPASS                     | 2.3           | 3            | 1            | 2.6            | 3            | 2            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 1.2                  | 1            | 1            |
|        | ARTERIAL EMBOLECTOMY/THROMBECTOMY BY LEG   | 5.6           | 6            | 4            | 6.0            | 6            | 4            | 0.2          | 1            | 0            | 0.6          | 1            | 0            | 8.6                  | 8            | 6            |
|        | GRAFT THROMBECTOMY                         | 0.6           | 2            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.7                  | 1            | 0            |
|        | ADJUNCTIVE VEIN CUFF OR AVF                | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.9                  | 2            | 0            |
|        | HARVEST ARM VEIN                           | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 1.5                  | 2            | 1            |
|        | COMPOSITE LEG BYPASS GRAFT                 | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 1.0                  | 1            | 0            |
|        | RE-DO LOWER EXTREMITY BYPASS               | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 3.0                  | 4            | 1            |
|        | Subtotal - PERIPH OBSTRUCTIVE              | 108.9         | 81           | 95           | 127.1          | 82           | 106          | 5.5          | 12           | 2            | 9.4          | 13           | 5            | 124.9                | 69           | 124          |

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|                   |                                      | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|-------------------|--------------------------------------|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|                   |                                      | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area              | RRC Procedure                        |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| ABDOMINAL         | CELIAC/SMA ENDARTERECTOMY, BYPASS    | 1.3           | 2            | 1            | 1.1            | 1            | 1            | 0.0          | 0            | 0            | 0.4          | 1            | 0            | 0.8                  | 2            | 0            |
|                   | RENAL ENDARTERECTOMY, BYPASS         | 0.3           | 1            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.4                  | 1            | 0            |
|                   | EMBOLECTOMY/THROMBECTOMY, RENAL      | 0.7           | 1            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.2                  | 0            | 0            |
|                   | TRANSLUMINAL BALLOON ANGIOPLASTY,    | 0.5           | 1            | 0            | 1.3            | 2            | 1            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 1.1                  | 1            | 1            |
|                   | TRANSLUMINAL ATHERECTOMY, RENAL      | 0.2           | 1            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                   | TRANSCATHETER PLACE OF STENT, RENAL  | 2.9           | 3            | 2            | 3.1            | 4            | 1            | 0.3          | 2            | 0            | 0.2          | 1            | 0            | 3.6                  | 6            | 1            |
|                   | Subtotal - ABDOMINAL OBSTRUCTIVE     | 5.9           | 5            | 4            | 6.3            | 6            | 5            | 0.3          | 2            | 0            | 0.9          | 2            | 0            | 6.1                  | 7            | 4            |
| UPPER EXTREMITY   | OPEN BRACHIAL ARTERY EXPOSURE        | 0.2           | 1            | 0            | 0.7            | 2            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 3.1                  | 5            | 1            |
|                   | ARM BYPASS,ENDARTERECTOMY,REPAIR     | 2.4           | 3            | 1            | 2.8            | 3            | 2            | 0.1          | 0            | 0            | 0.2          | 0            | 0            | 0.5                  | 1            | 0            |
|                   | TRANSCATH PLACE OF INTRAVASC STENT,  | 0.6           | 1            | 0            | 1.0            | 1            | 1            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.5                  | 1            | 0            |
|                   | THORACIC OUTLET DECOMPRESSION PROC   | 1.4           | 3            | 0            | 0.8            | 1            | 0            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 0.1                  | 0            | 0            |
|                   | EMBOLECTOMY/THROMBECTOMY, BY ARM     | 1.8           | 2            | 1            | 2.3            | 3            | 2            | 0.1          | 0            | 0            | 0.1          | 0            | 0            | 1.7                  | 2            | 1            |
|                   | Subtotal - UPPER EXTREMITY           | 6.4           | 6            | 5            | 7.5            | 6            | 6            | 0.3          | 1            | 0            | 0.5          | 1            | 0            | 5.9                  | 7            | 4            |
| EXTRA-ANATOMIC    | AXILLO-FEMORAL BYPASS                | 2.5           | 3            | 2            | 2.6            | 2            | 2            | 0.1          | 0            | 0            | 0.5          | 1            | 0            | 0.5                  | 1            | 0            |
|                   | AXILLO-POPLITEAL-TIBIAL BYPASS       | 0.1           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                   | FEMORAL-FEMORAL BYPASS               | 2.4           | 2            | 2            | 3.4            | 3            | 2            | 0.1          | 0            | 0            | 0.3          | 1            | 0            | 2.0                  | 2            | 1            |
|                   | Subtotal - EXTRA-ANATOMIC            | 5.0           | 4            | 4            | 5.9            | 5            | 4            | 0.2          | 1            | 0            | 0.8          | 2            | 0            | 2.5                  | 2            | 2            |
| THROMBOLYSIS/MECH | TRANSLUMINAL MECHANICAL THROMBECTOMY | 1.6           | 3            | 1            | 3.2            | 4            | 2            | 0.1          | 0            | 0            | 0.1          | 0            | 0            | 3.0                  | 5            | 2            |
|                   | THROMBOLYSIS, TRANSARTERIAL,         | 2.6           | 4            | 2            | 3.8            | 4            | 3            | 0.2          | 1            | 0            | 0.2          | 1            | 0            | 1.9                  | 3            | 1            |
|                   | EXCHANGE OF THROMBOLYSIS CATHETER    | 1.3           | 3            | 0            | 2.2            | 3            | 1            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 1.3                  | 2            | 0            |
|                   | Subtotal - THROMBOLYSIS/MECH THROMB  | 5.6           | 8            | 4            | 9.3            | 9            | 8            | 0.3          | 1            | 0            | 0.4          | 1            | 0            | 6.1                  | 8            | 4            |

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|---------------|---|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|               |   | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area          | RRC Procedure                                 |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| MISC ENDOVASC | ENDO PLACE ILIAC ARTERY OCCLUS DEV (Sec Only) | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 1.8                  | 3            | 1            |
|               | TRANSCATHETER THERAPY, INFUSION NON           | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|               | TRANSCATHETER RETRIEVAL OF INTRAVASCULAR      | 0.0           | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|               | TRANSCATHETER ARTERIAL OCCLUSION OR           | 2.8           | 6            | 1            | 3.8            | 11           | 1            | 0.2          | 0            | 0            | 0.3          | 1            | 0            | 4.2                  | 4            | 3            |
|               | Subtotal - MISC ENDOVASC THERAP               | 2.8           | 6            | 1            | 4.0            | 11           | 2            | 0.2          | 0            | 0            | 0.3          | 1            | 0            | 6.2                  | 6            | 4            |
| TRAUMA (VS)   | EXPOSURE OF THORASIC VESSELS                  | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|               | REPAIR THORASIC VESSELS                       | 0.3           | 1            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.4                  | 2            | 0            |
|               | EXPOSURE OF NECK VESSELS                      | 0.1           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|               | REPAIR NECK VESSELS                           | 0.2           | 1            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.2                  | 1            | 0            |
|               | EXPOSURE OF ABDOMINAL VESSELS                 | 0.1           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|               | REPAIR ABDOMINAL VESSELS                      | 1.2           | 2            | 0            | 0.9            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.5                  | 1            | 0            |
|               | EXPOSURE OF PERIPHERAL VESSELS                | 0.6           | 2            | 0            | 0.9            | 2            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.8                  | 2            | 0            |
|               | REPAIR PERIPHERAL VESSELS                     | 3.3           | 5            | 2            | 3.1            | 4            | 2            | 0.1          | 0            | 0            | 0.3          | 1            | 0            | 3.4                  | 9            | 1            |
|               | FASCIOTOMY                                    | 1.0           | 1            | 0            | 1.5            | 2            | 1            | 0.2          | 1            | 0            | 0.1          | 0            | 0            | 5.1                  | 6            | 4            |
|               | Subtotal - TRAUMA (VS)                        | 6.9           | 9            | 3            | 7.2            | 8            | 5            | 0.4          | 1            | 0            | 0.5          | 1            | 0            | 10.4                 | 15           | 6            |

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# VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT REPORT (Main Table)

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Number of Programs in the Nation: 43    Number of Residents in the Nation: 56

|               |                                       | Surgeon Chief                      |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|---------------|---------------------------------------|------------------------------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|               |                                       | Natl Res AVE                       | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area          | RRC Procedure                         |                                    |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| VENOUS        | PORTAL-SYSTEMIC SHUNT                 | 0.1                                | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|               | OPERATION FOR VARICOSE VEINS          | 3.6                                | 5            | 2            | 8.2            | 7            | 7            | 0.3          | 1            | 0            | 0.5          | 1            | 0            | 9.3                  | 14           | 5            |
|               | SCLEROTHERAPY, PERIPH VEIN            | 1.5                                | 8            | 0            | 2.8            | 9            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.7                  | 2            | 0            |
|               | EMBOLECTOMY/THROMBECTOMY, VENOUS      | 0.4                                | 1            | 0            | 0.2            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.5                  | 1            | 0            |
|               | ENDOLUMINAL ABLATION                  | 6.2                                | 10           | 3            | 15.5           | 22           | 9            | 0.1          | 0            | 0            | 0.7          | 3            | 0            | 2.8                  | 5            | 1            |
|               | OPERATIONS FOR VENOUS ULCERATION      | 0.2                                | 1            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|               | VENOUS RECONSTRUCTION                 | 1.3                                | 3            | 0            | 0.8            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.4                  | 1            | 0            |
|               | TRANSLUMINAL BALLOON ANGIOPLASTY,     | 4.0                                | 5            | 2            | 16.8           | 20           | 12           | 0.3          | 1            | 0            | 0.4          | 1            | 0            | 10.1                 | 14           | 6            |
|               | TRANSLUMINAL MECHANICAL THROMBECTOMY, | 1.6                                | 4            | 0            | 1.7            | 2            | 1            | 0.1          | 0            | 0            | 0.1          | 0            | 0            | 1.0                  | 2            | 0            |
|               | THROMBOLYSIS, TRANSVENOUS,            | 1.1                                | 2            | 0            | 1.8            | 3            | 1            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 1.2                  | 2            | 1            |
|               | INTERRUPTION OF IVC                   | 5.5                                | 8            | 3            | 11.6           | 12           | 10           | 0.4          | 1            | 0            | 0.4          | 1            | 0            | 1.4                  | 2            | 1            |
|               | REPAIR A-V MALFORMATION               | 0.1                                | 1            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|               | Subtotal - VENOUS                     | 25.4                               | 25           | 19           | 59.8           | 40           | 53           | 1.2          | 2            | 0            | 2.4          | 4            | 1            | 27.7                 | 22           | 26           |
| ENDOVASCULAR  | ARTERIOGRAPHY                         | 39.1                               | 46           | 27           | 75.4           | 54           | 61           | 2.6          | 5            | 0            | 3.2          | 5            | 2            | 290.4                | 218          | 247          |
|               | VENOGRAPHY                            | 5.1                                | 9            | 3            | 14.5           | 18           | 8            | 0.3          | 2            | 0            | 0.3          | 1            | 0            | 19.9                 | 22           | 13           |
|               | ANGIOSCOPY                            | 0.0                                | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 2.2                  | 13           | 0            |
|               | INTRAVASCULAR ULTRASOUND              | 0.0                                | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 1.0                  | 2            | 0            |
|               |                                       | Subtotal - ENDOVASCULAR DIAGNOSTIC | 44.2         | 52           | 30             | 90.1         | 61           | 71           | 3.0          | 5            | 0            | 3.6          | 6            | 2                    | 313.5        | 232          |
| MISC VASCULAR | EXPLORATION OF ARTERY                 | 2.1                                | 4            | 1            | 2.8            | 4            | 1            | 0.1          | 0            | 0            | 0.2          | 1            | 0            | 13.5                 | 21           | 4            |
|               | POSTOPERATIVE EXP. FOR BLEED, THROMB, | 0.8                                | 1            | 0            | 1.4            | 1            | 1            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 1.0                  | 2            | 0            |
|               | MAJOR VASCULAR LIGATION               | 3.2                                | 4            | 2            | 6.7            | 6            | 5            | 0.2          | 1            | 0            | 0.3          | 1            | 0            | 2.6                  | 4            | 1            |
|               | INJECT PSEUDOANEURYSM                 | 0.3                                | 1            | 0            | 0.6            | 1            | 0            | 0.1          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|               | SPINE EXPOSURE                        | 1.5                                | 4            | 0            | 2.0            | 5            | 0            | 0.1          | 1            | 0            | 0.1          | 1            | 0            | 1.0                  | 3            | 0            |
|               | SYMPATHECTOMY                         | 0.1                                | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|               | LYMPHATIC PROCEDURE                   | 0.1                                | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|               | OTHER MISCELLANEOUS VASCULAR          | 0.2                                | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.6                  | 2            | 0            |
|               |                                       | Subtotal - MISCELLANEOUS VASCULAR  | 8.1          | 8            | 6              | 13.9         | 10           | 12           | 0.5          | 1            | 0            | 0.8          | 1            | 0                    | 18.8         | 24           |

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|                    |                                       | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|--------------------|---------------------------------------|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|                    |                                       | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area               | RRC Procedure                         |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| VASCULAR ACCESS    | A-V FISTULA                           | 16.6          | 13           | 13           | 40.1           | 27           | 39           | 1.5          | 3            | 0            | 1.7          | 3            | 0            | 1.1                  | 2            | 1            |
|                    | A-V GRAFT                             | 6.7           | 8            | 4            | 13.6           | 10           | 12           | 0.4          | 1            | 0            | 0.6          | 2            | 0            | 1.0                  | 2            | 0            |
|                    | PERCUTANEOUS-OTHER ACCESS             | 0.7           | 2            | 0            | 2.0            | 5            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.9                  | 2            | 0            |
|                    | REVISION, A-V ACCESS                  | 10.0          | 12           | 6            | 21.6           | 24           | 14           | 0.5          | 1            | 0            | 0.8          | 2            | 0            | 4.1                  | 8            | 2            |
|                    | Subtotal - VASCULAR ACCESS            | 34.1          | 30           | 25           | 77.3           | 57           | 65           | 2.3          | 4            | 1            | 3.1          | 5            | 1            | 7.2                  | 11           | 4            |
| AMPUTATIONS        | AMPUTATION, DIGIT                     | 1.8           | 2            | 1            | 5.0            | 5            | 5            | 0.9          | 3            | 0            | 0.2          | 1            | 0            | 2.5                  | 4            | 1            |
|                    | AMPUTATION, TRANSMETATARSAL           | 3.2           | 4            | 2            | 7.1            | 7            | 5            | 0.6          | 1            | 0            | 0.3          | 1            | 0            | 1.5                  | 2            | 1            |
|                    | AMPUTATION, BELOW KNEE                | 6.1           | 5            | 5            | 12.9           | 9            | 13           | 2.4          | 4            | 0            | 0.8          | 1            | 0            | 0.7                  | 1            | 0            |
|                    | AMPUTATION, ABOVE KNEE                | 4.2           | 3            | 4            | 9.4            | 6            | 8            | 1.5          | 2            | 0            | 0.5          | 1            | 0            | 0.8                  | 1            | 0            |
|                    | AMPUTATION, UPPER EXTREMITY           | 0.1           | 0            | 0            | 0.2            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                    | AMPUTATION CLOSURE, REVISION          | 0.3           | 1            | 0            | 1.5            | 3            | 0            | 0.1          | 1            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                    | Subtotal - AMPUTATIONS                | 15.6          | 12           | 14           | 36.0           | 23           | 34           | 5.5          | 10           | 1            | 1.8          | 3            | 0            | 5.8                  | 6            | 3            |
| IMAGING/DIAGNOSTIC | CAROTID DUPLEX ULTRASOUND             | 10.1          | 24           | 0            | 32.7           | 50           | 1            | 0.1          | 0            | 0            | 3.8          | 19           | 0            | 0.0                  | 0            | 0            |
|                    | PERIPHERAL ARTERIAL PHYSIOL TEST      | 14.8          | 42           | 0            | 35.1           | 60           | 0            | 0.2          | 1            | 0            | 4.4          | 21           | 0            | 0.0                  | 0            | 0            |
|                    | PERIPH ARTERIAL DUPLEX ULTRASOUND     | 11.8          | 30           | 0            | 25.8           | 43           | 0            | 0.1          | 1            | 0            | 2.8          | 13           | 0            | 0.0                  | 0            | 0            |
|                    | VENOUS DUPLEX ULTRASOUND              | 12.9          | 36           | 0            | 45.9           | 78           | 2            | 0.1          | 1            | 0            | 3.9          | 19           | 0            | 0.0                  | 0            | 0            |
|                    | VISCERAL VASCULAR ULTRASOUND          | 5.0           | 19           | 0            | 15.2           | 27           | 0            | 0.0          | 0            | 0            | 2.9          | 15           | 0            | 0.0                  | 0            | 0            |
|                    | TRANSCRANIAL DOPPLER                  | 0.1           | 1            | 0            | 0.5            | 3            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                    | Subtotal - IMAGING/DIAGNOSTIC STUDIES | 54.6          | 129          | 0            | 155.2          | 227          | 6            | 0.5          | 3            | 0            | 17.8         | 86           | 0            | 0.0                  | 0            | 0            |

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|                      |   | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|----------------------|---|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|                      |   | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area                 | RRC Procedure                           |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| SKIN/SOFT TIS        | MAJ LYMPHADENECTOMIES                   | 0.0           | 0            | 0            | 0.5            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|                      | MAJ EXC & REP/GRAFT FOR SKIN NEOPLASM   | 0.2           | 1            | 0            | 3.3            | 5            | 1            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 0.3                  | 1            | 0            |
|                      | SENTINEL LYMPH NODE BIOPSY FOR MELANOMA | 0.0           | 0            | 0            | 1.3            | 3            | 1            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.4                  | 1            | 0            |
|                      | RAD EXCIS SOFT TIS TUMOR                | 0.0           | 0            | 0            | 0.8            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|                      | PILONIDAL CYSTECTOMY                    | 0.0           | 0            | 0            | 1.2            | 2            | 1            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|                      | OTHER MAJOR SKIN/SOFT TIS               | 4.2           | 6            | 2            | 15.8           | 11           | 14           | 0.7          | 2            | 0            | 1.0          | 2            | 0            | 3.5                  | 5            | 2            |
|                      | Subtotal - SKIN/SOFT TIS                | 4.4           | 7            | 2            | 22.8           | 16           | 20           | 0.7          | 2            | 0            | 1.4          | 2            | 0            | 4.4                  | 5            | 2            |
| HEAD/NECK            | RESECT LESION-TONGUE                    | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                      | RESECT LESION-FLOOR MOUTH/BUCCAL MUC    | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                      | PAROTIDECTOMY                           | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                      | RESECT OTHER SALIVARY GLND              | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                      | RADICAL NECK DISSECT                    | 0.0           | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                      | RESECT MANDIBLE/MAXILLA                 | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                      | TRACHEOSTOMY                            | 0.1           | 0            | 0            | 2.9            | 4            | 2            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|                      | OTHER MAJOR HEAD/NECK                   | 0.1           | 0            | 0            | 0.9            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
| Subtotal - HEAD/NECK | 0.2                                     | 0             | 0            | 4.1          | 5              | 2            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 0.1          | 0                    | 0            |              |
| BREAST               | BREAST BIOPSY                           | 0.0           | 0            | 0            | 3.4            | 9            | 1            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.5                  | 2            | 0            |
|                      | SENTINEL LYMPH NODE BIOPSY (BREAST)     | 0.0           | 0            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 1.1                  | 2            | 0            |
|                      | SIMPLE MASTECTOMY                       | 0.1           | 1            | 0            | 1.4            | 2            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.4                  | 1            | 0            |
|                      | MOD RAD MASTECTOMY                      | 0.0           | 0            | 0            | 1.3            | 3            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|                      | RADICAL MASTECTOMY                      | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                      | EXC BX/QUADRANT EXC W/WO AX SAMPLING    | 0.1           | 1            | 0            | 4.0            | 6            | 2            | 0.0          | 0            | 0            | 0.4          | 2            | 0            | 0.2                  | 1            | 0            |
|                      | BREAST RECONSTRUCTION                   | 0.1           | 1            | 0            | 1.0            | 3            | 0            | 0.0          | 0            | 0            | 0.8          | 2            | 0            | 0.6                  | 2            | 0            |
|                      | OTHER MAJOR BREAST                      | 0.0           | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
| Subtotal - BREAST    | 0.4                                     | 3             | 0            | 11.7         | 16             | 6            | 0.0          | 0            | 0            | 1.6          | 4            | 0            | 3.0          | 5                    | 0            |              |

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|----------------------------|--|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|                            |  | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area                       | RRC Procedure                            |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| ALIM TR-ESOPHAGUS          | ESOPHAGECTOMY                            | 0.0           | 0            | 0            | 0.2            | 0            | 0            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 0.0                  | 0            | 0            |
|                            | ESOPHAGO-GASTRECTOMY                     | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                            | ANTIREFLUX PROC-OPEN                     | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                            | ANTIREFLUX PROC-LAPAROSCOPIC             | 0.0           | 0            | 0            | 0.6            | 1            | 0            | 0.0          | 0            | 0            | 0.6          | 2            | 0            | 0.1                  | 0            | 0            |
|                            | OTHER OPS FOR ESOPHAGEAL STENOSIS        | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                            | ESOPHAGEAL DIVERTICULECTOMY              | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                            | OTHER MAJOR ESOPHAGUS                    | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                            | Subtotal - ALIM TR-ESOPHAGUS             | 0.0           | 0            | 0            | 1.1            | 1            | 1            | 0.0          | 0            | 0            | 0.9          | 3            | 0            | 0.1                  | 0            | 0            |
| ALIM TR-STOMACH            | GASTROSTOMY (ALL TYPES)-OPEN             | 0.0           | 0            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.2                  | 0            | 0            |
|                            | GASTROSTOMY (ALL TYPES)-LAPAROSCOPIC     | 0.0           | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|                            | GASTRIC RESECT, PARTIAL-OPEN             | 0.0           | 0            | 0            | 0.2            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|                            | GASTRIC RESECT, PARTIAL-LAPAROSCOPIC     | 0.0           | 0            | 0            | 0.7            | 2            | 0            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 0.0                  | 0            | 0            |
|                            | GASTRIC RESECT, TOTAL                    | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|                            | REPAIR PERF-GASTRIC DIS                  | 0.0           | 0            | 0            | 0.2            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                            | GASTRIC REDUC FOR MORBID OBESITY (ALL)   | 0.0           | 0            | 0            | 1.1            | 4            | 0            | 0.0          | 0            | 0            | 0.7          | 5            | 0            | 0.0                  | 0            | 0            |
|                            | GASTRIC REDUC FOR MORBID OBESITY-LAP     | 0.0           | 0            | 0            | 0.3            | 2            | 0            | 0.0          | 0            | 0            | 0.5          | 3            | 0            | 0.0                  | 0            | 0            |
|                            | OTHER MAJOR STOMACH [no open/close dist] | 0.0           | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
| Subtotal - ALIM TR-STOMACH | 0.1                                      | 0             | 0            | 3.5          | 7              | 1            | 0.0          | 0            | 0            | 1.8          | 9            | 0            | 0.4          | 1                    | 0            |              |

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|                   |  | Surgeon Chief                |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |   |
|-------------------|--|------------------------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|---|
|                   |  | Natl Res AVE                 | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |   |
| Area              | RRC Procedure                          |                              |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |   |
| ALIM TR-SMALL INT | ENTEROLYSIS - OPEN                     | 0.0                          | 0            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 1.1                  | 2            | 0            |   |
|                   | ENTEROLYSIS-LAPAROSCOPIC               | 0.0                          | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.2                  | 1            | 0            |   |
|                   | ENTERECTOMY - OPEN                     | 0.1                          | 0            | 0            | 1.4            | 2            | 1            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 0.9                  | 1            | 0            |   |
|                   | ENTERECTOMY-LAPAROSCOPIC               | 0.0                          | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                   | REPAIR PERF-DUODENAL DIS               | 0.0                          | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                   | REPAIR PERF-SMALL BOWEL DIS            | 0.0                          | 0            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.2                  | 0            | 0            |   |
|                   | ILEOSTOMY (NOT ASSOC W/COLECTOMY)-OPEN | 0.0                          | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 1            | 0            | 0.2                  | 0            | 0            |   |
|                   | ILEOSTOMY (NOT ASSOC W/COLECTOMY)-LAP  | 0.0                          | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                   | DIVERTICULECTOMY                       | 0.0                          | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                   | OTHER MAJOR SMALL INT                  | 0.0                          | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.2                  | 0            | 0            |   |
|                   | Subtotal - ALIM TR-SMALL INT           | 0.1                          | 0            | 0            | 3.1            | 3            | 2            | 0.0          | 0            | 0            | 0.8          | 2            | 0            | 2.7                  | 4            | 1            |   |
| ALIM TR-LARGE INT | APPELDECTOMY-OPEN                      | 0.0                          | 0            | 0            | 0.8            | 2            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |   |
|                   | APPELDECTOMY-LAPAROSCOPIC              | 0.1                          | 1            | 0            | 7.7            | 7            | 6            | 0.1          | 0            | 0            | 1.0          | 3            | 0            | 0.1                  | 0            | 0            |   |
|                   | COLOSTOMY (ALL TYPES)                  | 0.0                          | 0            | 0            | 0.6            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.2                  | 1            | 0            |   |
|                   | COLOSTOMY CLOSURE                      | 0.0                          | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 0.1                  | 0            | 0            |   |
|                   | COLECTOMY/PROCTECTOMY-OPEN             | 0.1                          | 0            | 0            | 2.1            | 3            | 1            | 0.0          | 0            | 0            | 0.9          | 2            | 0            | 0.5                  | 1            | 0            |   |
|                   | COLECTOMY/PROCTECTOMY-LAPAROSCOPIC     | 0.0                          | 0            | 0            | 0.8            | 1            | 0            | 0.0          | 0            | 0            | 0.4          | 1            | 0            | 0.1                  | 0            | 0            |   |
|                   | COLECTOMY W/ ILEOANAL PULL-THRU        | 0.0                          | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                   | COLECTOMY W/ CONTINENT RECONSTRUCT     | 0.0                          | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                   | ABDOMINO-PERINEAL RESECTION            | 0.0                          | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                   | TRANSANAL RECTAL TUMOR EXCISION        | 0.0                          | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                   | REPAIR PERF-COLON DIS                  | 0.0                          | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                   | OTHER MAJOR LARGE INT                  | 0.0                          | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |   |
|                   |  | Subtotal - ALIM TR-LARGE INT | 0.3          | 1            | 0              | 12.5         | 10           | 11           | 0.1          | 0            | 0            | 2.7          | 5            | 1                    | 1.2          | 2            | 1 |

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|                    |  | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|--------------------|--|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|                    |  | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area               | RRC Procedure                          |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| ALIM TR-ANO-RECTAL | HEMORRHOIDECTOMY (ALL)                 | 0.0           | 0            | 0            | 1.5            | 2            | 1            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|                    | SPHINCTEROTOMY/SPHINCTEROPLASTY        | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                    | DRAINAGE PROC FOR ANORECTAL ABSCESS    | 0.1           | 0            | 0            | 1.5            | 2            | 1            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.2                  | 1            | 0            |
|                    | REPAIR ANORECTAL FISTULA               | 0.0           | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                    | REPAIR RECTAL PROLAPSE                 | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|                    | OTHER MAJOR ANO-RECTAL                 | 0.0           | 0            | 0            | 1.9            | 3            | 1            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.2                  | 1            | 0            |
|                    | Subtotal - ALIM TR-ANO-RECTAL          | 0.1           | 0            | 0            | 5.3            | 6            | 4            | 0.0          | 0            | 0            | 0.4          | 1            | 0            | 0.4                  | 1            | 0            |
| ABDOMEN-GENERAL    | EXP LAP EXCLUSIVE OF TRAUMA-OPEN       | 1.1           | 2            | 0            | 5.0            | 5            | 4            | 0.1          | 0            | 0            | 1.0          | 2            | 0            | 3.5                  | 4            | 2            |
|                    | EXP LAP EXCLUSIVE OF TRAUMA-LAPAR      | 0.4           | 1            | 0            | 3.6            | 5            | 2            | 0.0          | 0            | 0            | 0.4          | 1            | 0            | 0.8                  | 2            | 0            |
|                    | DRAINAGE INTRA-ABDOMINAL ABSCESS       | 0.1           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|                    | MAJ RETROPERIT/PELVIC NODE DISSEC-OPEN | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                    | OTHER MAJOR AB-GENERAL-LAP COMPLEX     | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                    | OTHER MAJOR AB-GENERAL                 | 1.2           | 3            | 0            | 1.0            | 1            | 1            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 0.6                  | 1            | 0            |
|                    | Subtotal - ABDOMEN-GENERAL             | 2.8           | 4            | 2            | 9.8            | 8            | 7            | 0.1          | 0            | 0            | 1.7          | 3            | 0            | 5.1                  | 6            | 3            |
| ABDOMEN-LIVER      | LOBECTOMY OR SEGMENTECTOMY             | 0.0           | 0            | 0            | 0.6            | 1            | 0            | 0.0          | 0            | 0            | 0.4          | 1            | 0            | 0.1                  | 0            | 0            |
|                    | WEDGE RESECTION/OPEN BIOPSY            | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|                    | DRAINAGE LIVER ABSCESS                 | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                    | OTHER MAJOR LIVER                      | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 1            | 0            | 0.1                  | 0            | 0            |
|                    | Subtotal - ABDOMEN-LIVER               | 0.0           | 0            | 0            | 0.8            | 2            | 0            | 0.0          | 0            | 0            | 0.6          | 2            | 0            | 0.3                  | 1            | 0            |

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|                  |                                       | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|------------------|---------------------------------------|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|                  |                                       | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area             | RRC Procedure                         |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| ABDOMEN-BILIARY  | CHOLECYSTOSTOMY                       | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | CHOLECYSTECTOMY W/WO OPER GRAMS-OPEN  | 0.0           | 0            | 0            | 1.2            | 2            | 1            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 0.3                  | 1            | 0            |
|                  | CHOLECYSTECTOMY W/WO OPER GRAMS-LAPAR | 0.4           | 2            | 0            | 14.4           | 13           | 10           | 0.1          | 0            | 0            | 2.0          | 4            | 0            | 0.2                  | 0            | 0            |
|                  | COMMON BILE DUCT EXPLOR-OPEN          | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                  | COMMON BILE DUCT EXPLOR-LAPAR         | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | CHOLEDOCHOENTERIC ANASTOMOSIS         | 0.0           | 0            | 0            | 0.2            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|                  | OTHER MAJOR BILIARY                   | 0.0           | 0            | 0            | 0.1            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | Subtotal - ABDOMEN-BILIARY            | 0.5           | 2            | 0            | 16.1           | 14           | 12           | 0.1          | 1            | 0            | 2.4          | 4            | 0            | 0.8                  | 1            | 0            |
| ABDOMEN-PANCREAS | DRAINAGE PANCREATIC ABSCESS           | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | RESECTION FOR PANCREATIC NECROSIS     | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | PANC RESECTION, DISTAL                | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|                  | PANC RESECTION, WHIPPLE               | 0.0           | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.4          | 1            | 0            | 0.0                  | 0            | 0            |
|                  | PANC RESECTION, TOTAL                 | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | OTHER MAJOR PANCREAS                  | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | Subtotal - ABDOMEN-PANCREAS           | 0.0           | 0            | 0            | 0.5            | 1            | 0            | 0.0          | 0            | 0            | 0.6          | 1            | 0            | 0.1                  | 0            | 0            |
| ABDOMEN-SPLEEN   | SPLENECTOMY FOR DISEASE-OPEN          | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.3                  | 1            | 0            |
|                  | SPLENECTOMY FOR DISEASE-LAPAR         | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | Subtotal - ABDOMEN-SPLEEN             | 0.0           | 0            | 0            | 0.2            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 1            | 0            | 0.3                  | 1            | 0            |
| ABDOMEN-HERNIA   | INGUINAL-FEMORAL (ALL)-OPEN           | 0.2           | 1            | 0            | 12.7           | 12           | 9            | 0.0          | 0            | 0            | 1.0          | 2            | 0            | 0.5                  | 1            | 0            |
|                  | INGUINAL-FEMORAL (ALL)-LAPAROS        | 0.0           | 0            | 0            | 3.2            | 4            | 1            | 0.0          | 0            | 0            | 0.8          | 2            | 0            | 0.3                  | 1            | 0            |
|                  | VENTRAL                               | 0.1           | 1            | 0            | 11.2           | 9            | 9            | 0.0          | 0            | 0            | 1.1          | 2            | 0            | 1.2                  | 2            | 1            |
|                  | OTHER MAJOR HERNIAS                   | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | Subtotal - ABDOMEN-HERNIA             | 0.3           | 1            | 0            | 27.1           | 21           | 24           | 0.1          | 0            | 0            | 2.9          | 4            | 0            | 1.9                  | 2            | 1            |

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|           |                            | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|-----------|----------------------------|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|           |                            | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area      | RRC Procedure              |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| ENDOCRINE | THYROIDECTOMY, PART OR TOT | 0.0           | 0            | 0            | 2.3            | 4            | 1            | 0.0          | 0            | 0            | 0.6          | 2            | 0            | 0.0                  | 0            | 0            |
|           | PARATHYROIDECTOMY          | 0.1           | 0            | 0            | 1.2            | 2            | 1            | 0.0          | 0            | 0            | 0.3          | 2            | 0            | 0.1                  | 0            | 0            |
|           | ADRENALECTOMY              | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | PANCREATIC ENDOCRINE PROC  | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | OTHER MAJOR ENDOCRINE      | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | Subtotal - ENDOCRINE       | 0.1           | 0            | 0            | 3.6            | 6            | 2            | 0.0          | 0            | 0            | 0.9          | 3            | 0            | 0.2                  | 1            | 0            |
| HAND      | SOFT TISSUE REPAIR/GRAFT   | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | TENDON REPAIR/TRANSFER     | 0.0           | 0            | 0            | 0.1            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|           | NERVE REPAIR               | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | VASCULAR REPAIR            | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | OTHER MAJOR HAND           | 0.0           | 0            | 0            | 0.4            | 2            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|           | Subtotal - HAND            | 0.0           | 0            | 0            | 0.5            | 2            | 0            | 0.0          | 0            | 0            | 0.1          | 1            | 0            | 0.1                  | 0            | 0            |

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|----------|---|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|          |   | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area     | RRC Procedure                             |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| THORACIC | EXPLOR THORACOTOMY-OPEN                   | 0.1           | 0            | 0            | 0.9            | 1            | 1            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 0.8                  | 2            | 0            |
|          | EXPLOR THORACOTOMY WWO BX-THORACOS        | 0.0           | 0            | 0            | 0.8            | 2            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|          | PLEURODESIS-THORACOSCOPIC                 | 0.0           | 0            | 0            | 0.5            | 1            | 0            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 0.1                  | 0            | 0            |
|          | REPAIR DIAPH HERNIA                       | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|          | EXCISION MEDIASTINAL TUMOR                | 0.0           | 0            | 0            | 1.1            | 4            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|          | PNEUMONECTOMY                             | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|          | LOBECTOMY/SEGMENTAL RESECT LUNG-OPEN      | 0.0           | 0            | 0            | 0.8            | 2            | 0            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 0.1                  | 0            | 0            |
|          | LOBECTOMY/SEGMENTAL RESECT LUNG-THORACOS  | 0.0           | 0            | 0            | 0.8            | 2            | 0            | 0.0          | 0            | 0            | 0.5          | 2            | 0            | 0.1                  | 0            | 0            |
|          | WEDGE RESECTION LUNG-OPEN                 | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|          | WEDGE RESECTION LUNG-THORACOSCOPIC        | 0.0           | 0            | 0            | 0.7            | 2            | 0            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 0.3                  | 1            | 0            |
|          | THORACIC OUTLET DECOMPRESS PROC           | 2.9           | 7            | 1            | 2.3            | 4            | 1            | 0.1          | 0            | 0            | 0.7          | 2            | 0            | 1.7                  | 4            | 0            |
|          | OPEN DRAINAGE OF EMPYEMA                  | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|          | PERICARDIECTOMY                           | 0.1           | 0            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.2                  | 1            | 0            |
|          | PERICARD WINDOW FOR DRAINAGE-THORACOSCOPI | 0.0           | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|          | PACEMAKER INSERTION                       | 0.0           | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.4                  | 2            | 0            |
|          | CARDIAC PROCEDURES                        | 0.9           | 5            | 0            | 6.7            | 13           | 0            | 0.0          | 0            | 0            | 2.6          | 6            | 0            | 4.2                  | 9            | 0            |
|          | SYMPATHECTOMY, THORACOLUMBAR-THORACOSCOPI | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|          | ESOPHAGOMYOTOMY (HELLER)-THORACOSCOPIC    | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|          | OTHER MAJOR THORACIC                      | 0.5           | 1            | 0            | 3.5            | 6            | 2            | 0.0          | 0            | 0            | 1.0          | 2            | 0            | 1.4                  | 3            | 0            |
|          | Subtotal - THORACIC                       | 4.6           | 10           | 2            | 19.3           | 19           | 15           | 0.1          | 1            | 0            | 6.1          | 11           | 0            | 9.6                  | 12           | 7            |

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|           |  | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|-----------|--|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|           |  | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area      | RRC Procedure                            |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| PEDIATRIC | HERNIORRHAPHY, INGUINAL/UMBILICAL        | 0.0           | 0            | 0            | 1.7            | 3            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.2                  | 0            | 0            |
|           | REP BRANCHIAL CLEFT ANOM/THYRO DUCT CYST | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | REPAIR DEFORMITY CHEST WALL              | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | REPAIR DIAPHRAGMATIC HERNIA              | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | ANTIREFLUX PROCEDURE-LAPAROSCOPIC (PEDS) | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | REP ESOPH ATRESIA/TRACHEO-ESOPH FIST     | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | REP INTESTINAL ATRESIA/STENOSIS          | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | REPAIR PYLORIC STENOSIS                  | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|           | OPERATION FOR MALROTATION/INTUSSUSCEPT   | 0.0           | 0            | 0            | 0.1            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | DEFIN OP FOR HIRSCHSPRUNGS/IMPERF ANUS   | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | EXC WILMs TUMOR/NEUROBLASTOMA            | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | REP OMPHALOCELE/GASTROSCHISIS            | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | ORCHIOPEXY                               | 0.0           | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|           | OTHER MAJOR PEDIATRIC                    | 0.0           | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|           | Subtotal - PEDIATRIC                     | 0.0           | 0            | 0            | 2.5            | 4            | 0            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 0.2                  | 1            | 0            |

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|                |  | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|----------------|--|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|                |  | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area           | RRC Procedure                                |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| GENITO-URINARY | HYDROCELECTOMY                               | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                | CYSTOSTOMY                                   | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 1            | 0            |
|                | CYSTECTOMY                                   | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                | NEPHRECTOMY (W/ DONOR NEPH SEE TRANSPLT)     | 0.1           | 0            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.2                  | 1            | 0            |
|                | OTHER MAJOR GENITO-URINARY                   | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 1            | 0            |
|                | OTHER MAJOR GENITO-URINARY - LAP BASIC       | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                | Subtotal - GENITO-URINARY                    | 0.1           | 0            | 0            | 0.6            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.6                  | 1            | 0            |
| GYNECOLOGY     | HYSTERECTOMY (ALL)                           | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                | SALPINGO-OOPHORECTOMY                        | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                | OTHER MAJOR GYNECOLOGY                       | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                | OTHER MAJOR GYNECOLOGY - LAPAROSCOPIC        | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                | Subtotal - GYNECOLOGY                        | 0.0           | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.2                  | 0            | 0            |
| PLASTIC        | REPAIR CLEFT LIP/CLEFT PALATE                | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                | MAJOR RECONSTRUCTIVE PROC                    | 0.1           | 1            | 0            | 1.0            | 3            | 0            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 0.2                  | 1            | 0            |
|                | SKIN-GRAFTING, NONBURN (ALL)                 | 0.4           | 1            | 0            | 1.4            | 2            | 1            | 0.0          | 0            | 0            | 0.2          | 1            | 0            | 0.7                  | 2            | 0            |
|                | COMPOSITE TISSUE TRANSFER                    | 0.3           | 1            | 0            | 1.1            | 2            | 0            | 0.1          | 0            | 0            | 0.2          | 1            | 0            | 1.8                  | 3            | 1            |
|                | BURN DEBRIDEMENT AND/OR GRAFTING             | 0.0           | 0            | 0            | 1.3            | 4            | 0            | 0.0          | 0            | 0            | 0.1          | 1            | 0            | 4.3                  | 18           | 0            |
|                | REDUCTION AND STABILIZATION OF MAXILLOFACIAL | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|                | OTHER MAJOR PLASTIC                          | 0.6           | 2            | 0            | 1.9            | 3            | 1            | 0.1          | 0            | 0            | 0.3          | 1            | 0            | 0.7                  | 2            | 0            |
|                | Subtotal - PLASTIC                           | 1.4           | 3            | 0            | 6.8            | 8            | 4            | 0.2          | 1            | 0            | 1.0          | 3            | 0            | 7.8                  | 22           | 2            |
| NERVOUS        | OTHER MAJOR NERVOUS SYSTEM                   | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                | Subtotal - NERVOUS SYSTEM                    | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |

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|                  |  | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|------------------|--|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|                  |  | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area             | RRC Procedure                          |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| ORTHOPAEDICS     | ARTHROSCOPY                            | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | OPEN REDUCTION OF OPEN/CLOSED FRACTURE | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | CLOSED REDUCTION OF FRACTURE           | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                  | OTHER MAJOR ORTHOPAEDICS               | 0.6           | 3            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.4          | 2            | 0            | 1.7                  | 7            | 0            |
|                  | Subtotal - ORTHOPAEDICS                | 0.6           | 3            | 0            | 0.5            | 1            | 0            | 0.0          | 0            | 0            | 0.5          | 3            | 0            | 1.8                  | 7            | 0            |
| ORGAN TRANSPLANT | LIVER TRANSPLANT                       | 0.1           | 0            | 0            | 0.6            | 2            | 0            | 0.0          | 0            | 0            | 0.4          | 2            | 0            | 0.2                  | 1            | 0            |
|                  | RENAL TRANSPLANT                       | 0.8           | 4            | 0            | 4.3            | 8            | 1            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 0.2                  | 1            | 0            |
|                  | PANCREAS TRANSPLANT                    | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | DONOR NEPHRECTOMY                      | 0.0           | 0            | 0            | 0.7            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 1            | 0            | 3.5                  | 7            | 0            |
|                  | DONOR HEPATECTOMY                      | 0.1           | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 1            | 0            | 0.3                  | 1            | 0            |
|                  | EN BLOC ABD ORGAN RETRIEVAL            | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.2                  | 1            | 0            |
|                  | OTHER MAJOR ORGAN TRANSPLANT           | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                  | Subtotal - ORGAN TRANSPLANT            | 1.0           | 5            | 0            | 6.2            | 10           | 2            | 0.0          | 0            | 0            | 1.0          | 2            | 0            | 4.4                  | 9            | 0            |

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|--------|--|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|        |  | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area   | RRC Procedure                            |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| TRAUMA | DRAINAGE SUB/EXTRADURAL HEMATOMA         | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | GASTRIC TRAUMA-CLOSURE/RESECT/EXCLUSION  | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | SM BOWEL TRAUMA-CLOSURE/RESECT/EXCLUSION | 0.0           | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.3                  | 1            | 0            |
|        | COLON TRAUMA-CLOSURE/RESECT/EXCLUSION    | 0.0           | 0            | 0            | 0.3            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|        | NECK EXPLOR FOR TRAUMA                   | 0.0           | 0            | 0            | 0.2            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|        | EXPLOR THORACOTOMY - OPEN                | 0.0           | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|        | EXPLOR THORACOTOMY - THORACOSCOPIC       | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | EXPLOR LAPAROTOMY - OPEN                 | 0.3           | 1            | 0            | 1.2            | 2            | 1            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 1.0                  | 2            | 0            |
|        | SPLENECTOMY/SPLENORRHAPHY-OPEN           | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | REPAIR/DRAINAGE HEPATIC LACS-OPEN        | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | HEPATIC RESECTION FOR INJURY             | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | DRAINAGE PANCREATIC INJURY               | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | RESECTION OF PANCREATIC INJURY           | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | CLOSED REDUCT OF FRACTURE                | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | DEBRIDE/SUTURE MAJOR WOUNDS              | 0.3           | 1            | 0            | 1.9            | 4            | 0            | 0.1          | 0            | 0            | 0.1          | 0            | 0            | 0.5                  | 1            | 0            |
|        | REPAIR BLADDER INJURY                    | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | REPAIR URETERAL INJURY                   | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | REPAIR/RESECT FOR KIDNEY TRAUMA          | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|        | FASCIOTOMY FOR INJURY                    | 0.4           | 1            | 0            | 0.9            | 1            | 1            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 1.8                  | 3            | 1            |
|        | MANAGEMENT CARDIAC INJURY                | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|        | OTHER MAJOR TRAUMA                       | 1.2           | 3            | 0            | 4.4            | 6            | 2            | 0.4          | 1            | 0            | 0.4          | 2            | 0            | 1.2                  | 2            | 1            |
|        | Subtotal - TRAUMA                        | 2.3           | 4            | 1            | 9.9            | 8            | 8            | 0.5          | 2            | 0            | 1.0          | 2            | 0            | 5.4                  | 5            | 4            |

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# VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT REPORT (Main Table)

Reporting Period: Total Experience of Residents Completing Programs in 2018-2019

Residency Review Committee for Surgery

Report Date: September 30, 2019

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Number of Programs in the Nation: 43    Number of Residents in the Nation: 56

|                          |                                       | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|--------------------------|---------------------------------------|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|                          |                                       | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area                     | RRC Procedure                         |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| ENDOSCOPY (NOT FOR MAJOR | LARYNGOSCOPY                          | 0.0           | 0            | 0            | 0.0            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                          | BRONCHOSCOPY                          | 0.0           | 0            | 0            | 1.2            | 2            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.8                  | 2            | 0            |
|                          | ESOPHAGO-GASTRO-DUODENOSCOPY          | 0.0           | 0            | 0            | 2.5            | 7            | 0            | 0.0          | 0            | 0            | 0.2          | 0            | 0            | 0.6                  | 2            | 0            |
|                          | PERCUTAN ENDO GASTROSTOMY (PEG)       | 0.0           | 0            | 0            | 1.3            | 2            | 0            | 0.0          | 0            | 0            | 0.2          | 0            | 0            | 0.5                  | 1            | 0            |
|                          | SIGMOIDOSCOPY, RIGID/FLEXIBLE         | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.2                  | 1            | 0            |
|                          | FLEXIBLE COLONOSCOPY W/WO             | 0.0           | 0            | 0            | 0.8            | 3            | 0            | 0.0          | 0            | 0            | 0.1          | 1            | 0            | 0.1                  | 1            | 0            |
|                          | CYSTO/URETHROSCOPY                    | 0.0           | 0            | 0            | 0.5            | 2            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 1            | 0            |
|                          | OTHER ENDOSCOPY                       | 0.0           | 0            | 0            | 0.1            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                          | Subtotal - ENDOSCOPY (NOT MAJOR CRED) | 0.1           | 0            | 0            | 6.6            | 10           | 3            | 0.0          | 0            | 0            | 0.5          | 1            | 0            | 2.3                  | 3            | 1            |
| MISCELLANEOUS (NOT FOR   | REMOVE SKIN MOLES, SMALL TUMORS,      | 0.0           | 0            | 0            | 2.3            | 7            | 0            | 0.0          | 0            | 0            | 0.1          | 0            | 0            | 0.1                  | 0            | 0            |
|                          | REMOVAL SUBCUT SMALL TUMORS,          | 0.1           | 0            | 0            | 1.0            | 2            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                          | REPAIR MINOR WOUNDS AND GRAFTS        | 0.0           | 0            | 0            | 0.3            | 2            | 0            | 0.0          | 0            | 0            | 0.1          | 1            | 0            | 0.3                  | 1            | 0            |
|                          | BANDING/INCISION THROMBOSED           | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.0                  | 0            | 0            |
|                          | OTHER PROCEDURES                      | 5.7           | 10           | 2            | 27.4           | 24           | 20           | 0.6          | 2            | 0            | 2.0          | 5            | 0            | 16.1                 | 20           | 10           |
|                          | Subtotal - MISC (NOT MAJOR CRED)      | 5.8           | 10           | 2            | 31.1           | 30           | 23           | 0.6          | 2            | 0            | 2.2          | 5            | 0            | 16.7                 | 20           | 11           |
| PATIENT CARE (NOT FOR    | NON-OPERATIVE TRAUMA                  | 0.1           | 1            | 0            | 0.5            | 3            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                          | Subtotal - PATIENT CARE (NOT MAJOR    | 0.1           | 1            | 0            | 0.5            | 3            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |

Statistics for each role (surgeon chief, surgeon junior, teaching assistant, and first assistant) include only procedures for primary credit. Secondary procedures are shown separately and include all roles.

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|                              |                                       | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|------------------------------|---------------------------------------|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|                              |                                       | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area                         | RRC Procedure                         |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| SURGICAL CRITICAL CARE PAT   | VENTILATORY MANAGEMENT                | 0.4           | 1            | 0            | 1.9            | 3            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 2.9                  | 6            | 0            |
|                              | BLEED (NON-TRAUMA) > 3 UNITS          | 0.4           | 1            | 0            | 1.0            | 2            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 1.1                  | 2            | 0            |
|                              | HEMODYNAMIC INSTABILITY               | 0.8           | 3            | 0            | 1.5            | 3            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 3.9                  | 9            | 0            |
|                              | ORGAN DYSFUNCTION                     | 0.5           | 2            | 0            | 1.6            | 3            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 2.6                  | 6            | 0            |
|                              | DYSRHYTHMIAS                          | 0.3           | 1            | 0            | 1.0            | 2            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.9                  | 2            | 0            |
|                              | INVASIVE LINE MANAGE/MONITORING       | 1.1           | 3            | 0            | 2.3            | 4            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 4.8                  | 10           | 0            |
|                              | PARENTERAL/ENTERAL NUTRITION          | 0.3           | 1            | 0            | 0.9            | 2            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 1.6                  | 4            | 0            |
|                              | Subtotal - CRITCARE PAT MAN (NOT MAJ  | 3.8           | 11           | 0            | 10.2           | 17           | 0            | 0.1          | 1            | 0            | 0.0          | 0            | 0            | 17.7                 | 35           | 0            |
| CRITICAL CARE (NOT FOR MAJOR | CRITICAL CARE OTHER                   | 0.0           | 0            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 1            | 0            |
|                              | Subtotal - CRITICAL CARE (NOT FOR MAJ | 0.0           | 0            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 1            | 0            |
| UROLOGY (NOT FOR MAJOR       | UROLOGY                               | 0.0           | 0            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                              | Subtotal - UROLOGY (NOT FOR MAJ       | 0.0           | 0            | 0            | 0.4            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
| NEUROSURGERY (NOT FOR MAJOR  | NEUROSURGERY                          | 0.1           | 0            | 0            | 0.5            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 1            | 0            | 1.3                  | 6            | 0            |
|                              | Subtotal - NEUROSURG (NOT FOR MAJ     | 0.1           | 0            | 0            | 0.5            | 1            | 0            | 0.0          | 0            | 0            | 0.1          | 1            | 0            | 1.3                  | 6            | 0            |
| GYNECOLOGY (NOT FOR MAJOR    | GYNECOLOGY                            | 0.0           | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
|                              | Subtotal - GYNECOLOGY (NOT FOR MAJ    | 0.0           | 0            | 0            | 0.2            | 1            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 0.1                  | 0            | 0            |
| RADIOLOGY (NOT FOR MAJOR     | RADIOLOGY                             | 0.8           | 3            | 0            | 9.4            | 51           | 1            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 66.3                 | 130          | 10           |
|                              | Subtotal - RADIOLOGY (NOT FOR MAJ     | 0.8           | 3            | 0            | 9.4            | 51           | 1            | 0.0          | 0            | 0            | 0.3          | 1            | 0            | 66.3                 | 130          | 10           |
| ULTRASOUND (NOT FOR MAJOR    | MISCELANEOUS ULTRASOUND               | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 2.5                  | 13           | 0            |
|                              | Subtotal - ULTRASOUND (NOT FOR MAJ    | 0.0           | 0            | 0            | 0.1            | 0            | 0            | 0.0          | 0            | 0            | 0.0          | 0            | 0            | 2.5                  | 13           | 0            |

Statistics for each role (surgeon chief, surgeon junior, teaching assistant, and first assistant) include only procedures for primary credit. Secondary procedures are shown separately and include all roles.

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Residency Review Committee for Surgery

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|                  |                   | Surgeon Chief |              |              | Surgeon Junior |              |              | Teach Assist |              |              | First Assist |              |              | Secondary Procedures |              |              |
|------------------|-------------------|---------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
|                  |                   | Natl Res AVE  | Natl Res STD | Natl Res MED | Natl Res AVE   | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE | Natl Res STD | Natl Res MED | Natl Res AVE         | Natl Res STD | Natl Res MED |
| Area             | RRC Procedure     |               |              |              |                |              |              |              |              |              |              |              |              |                      |              |              |
| TOTAL FOR CREDIT | Major Operations  | 431.5         | 305          | 361          | 859.7          | 386          | 796          | 24.6         | 38           | 9            | 82.2         | 105          | 43           | 624.0                | 374          | 604          |
| Non-Tracked      | Non-Tracked Codes | 2.8           | 5            | 1            | 11.9           | 12           | 8            | 0.1          | 0            | 0            | 1.3          | 2            | 0            | 64.5                 | 97           | 22           |

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**VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT STATISTICS REPORT (Benchmarks Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
**Report Date: September 30, 2019**

[PAGE 1 ]      Number of Programs in the Nation: 43    Number of Residents in the Nation: 56

|  |   | Surgeon - Total        |    |    |    |     | Secondary Procedures |    |    |    |    |    |
|--|---|------------------------|----|----|----|-----|----------------------|----|----|----|----|----|
|  |   | Resident Percentiles   |    |    |    |     | Resident Percentiles |    |    |    |    |    |
|  |   | 10                     | 30 | 50 | 70 | 90  | 10                   | 30 | 50 | 70 | 90 |    |
| RRC Area   | RRC Procedure                                 |                        |    |    |    |     |                      |    |    |    |    |    |
| ANEURYSM REPAIR                                    | OPEN REPAIR INFRARENAL A-I ANEURYSM, RUPTURED | 0                      | 1  | 2  | 3  | 4   | 0                    | 0  | 0  | 0  | 0  |    |
|  | OPEN REPAIR INFRARENAL A-I ANEURYSM, ELECTIVE | 3                      | 5  | 9  | 12 | 21  | 0                    | 0  | 0  | 0  | 1  |    |
|  | ENDOVASCULAR REPAIR ABD AORTIC/ILIAC ANEURYSM | 24                     | 32 | 39 | 50 | 80  | 1                    | 3  | 7  | 11 | 18 |    |
|  | ENDOVASCULAR REPAIR OF ILIAC ARTERY           | 0                      | 1  | 2  | 2  | 6   | 0                    | 0  | 0  | 1  | 3  |    |
|  | REPAIR SUPRARENAL AORTIC ANEURYSM             | 0                      | 0  | 1  | 2  | 5   | 0                    | 0  | 0  | 0  | 0  |    |
|  | REPAIR THORACIC AORTIC ANEURYSM               | 0                      | 0  | 0  | 1  | 2   | 0                    | 0  | 0  | 0  | 0  |    |
|  | ENDOVASCULAR REPAIR THORACIC AORTIC ANEURYSM  | 7                      | 12 | 14 | 19 | 29  | 0                    | 1  | 2  | 4  | 9  |    |
|  | REPAIR THORACOABDOMINAL AORTIC ANEURYSM       | 0                      | 0  | 2  | 4  | 6   | 0                    | 0  | 0  | 0  | 0  |    |
|  | REPAIR FEMORAL ANEURYSM                       | 0                      | 3  | 4  | 6  | 10  | 0                    | 0  | 0  | 1  | 3  |    |
|  | REPAIR POPLITEAL ANEURYSM                     | 0                      | 1  | 2  | 4  | 6   | 0                    | 0  | 0  | 0  | 0  |    |
|  | REPAIR OTHER ANEURYSM - DEF CAT CREDIT        | 0                      | 0  | 0  | 1  | 2   | 0                    | 0  | 0  | 0  | 0  |    |
|  | Subtotal - ANEURYSM REPAIR                    |                        | 54 | 67 | 84 | 101 | 131                  | 2  | 7  | 13 | 19 | 31 |
|  | CEREBROVASCULAR                               | CAROTID ENDARTERECTOMY | 27 | 40 | 49 | 60  | 84                   | 0  | 0  | 0  | 1  | 3  |
| REOPERATIVE CAROTID SURGERY                        |   | 0                      | 0  | 0  | 0  | 0   | 0                    | 0  | 0  | 0  | 2  |    |
| TRANSCATHETER PLACEMENT CAROTID ARTERY STENT       |   | 1                      | 5  | 9  | 16 | 24  | 0                    | 0  | 0  | 0  | 1  |    |
| EXCISE CAROTID BODY TUMOR                          |   | 0                      | 0  | 0  | 1  | 2   | 0                    | 0  | 0  | 0  | 0  |    |
| VERTEBRAL BYPASS OR REIMPLANTATION /TRANSPOSITION  |   | 0                      | 0  | 0  | 0  | 1   | 0                    | 0  | 0  | 0  | 1  |    |
| DIRECT REPAIR AORTIC ARCH BRANCHES                 |   | 0                      | 0  | 0  | 1  | 2   | 0                    | 0  | 0  | 0  | 1  |    |
| TRANSLUMINAL BALLOON ANGIOPLASTY - BRACHIOCEPHALIC |   | 0                      | 0  | 1  | 1  | 4   | 0                    | 0  | 0  | 1  | 2  |    |
| TRANSCATHETER PLACE OF INTRAVASC STENT, NONCOR.    |   | 0                      | 0  | 1  | 2  | 5   | 0                    | 0  | 0  | 0  | 1  |    |
| CERVICAL BYPASS AORTIC ARCH BRANCHES               |   | 2                      | 4  | 6  | 8  | 11  | 0                    | 0  | 2  | 3  | 7  |    |
| EMBOLECTOMY/THROMBECTOMY BY NECK OR THORACIC INCIS |   | 0                      | 0  | 0  | 1  | 1   | 0                    | 0  | 0  | 0  | 0  |    |
| OTHER MAJOR CEREBROVASCULAR - DEF CAT CREDIT       |   | 0                      | 0  | 1  | 2  | 3   | 0                    | 0  | 0  | 0  | 1  |    |
| Subtotal - CEREBROVASCULAR                         |   |                        | 47 | 59 | 75 | 90  | 116                  | 0  | 3  | 4  | 6  | 13 |

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[PAGE 2 ]      Number of Programs in the Nation: 43    Number of Residents in the Nation: 56

|                    |  | Surgeon - Total      |     |     |     |     | Secondary Procedures |    |     |     |     |
|--------------------|--|----------------------|-----|-----|-----|-----|----------------------|----|-----|-----|-----|
|                    |  | Resident Percentiles |     |     |     |     | Resident Percentiles |    |     |     |     |
|                    |  | 10                   | 30  | 50  | 70  | 90  | 10                   | 30 | 50  | 70  | 90  |
| RRC Area           | RRC Procedure                                      |                      |     |     |     |     |                      |    |     |     |     |
| PERIPH OBSTRUCTIVE | AORTO-ILIO/FEMORAL ENDARTERECTOMY                  | 0                    | 2   | 4   | 7   | 14  | 0                    | 0  | 1   | 2   | 4   |
|                    | AORTO-ILIO/FEMORAL BYPASS, PROSTHETIC              | 3                    | 6   | 8   | 12  | 20  | 0                    | 0  | 0   | 1   | 1   |
|                    | AORTO-ILIO/FEMORAL BYPASS, VEIN                    | 0                    | 0   | 0   | 1   | 1   | 0                    | 0  | 0   | 0   | 0   |
|                    | TRANSLUMINAL BALLOON ANGIOPLASTY AORTA OR ILIAC    | 12                   | 19  | 26  | 33  | 47  | 8                    | 22 | 32  | 42  | 59  |
|                    | TRANSLUMINAL ATHERECTOMY AORTA OR ILIAC            | 0                    | 0   | 0   | 0   | 1   | 0                    | 0  | 0   | 0   | 1   |
|                    | TRANSCATHETER PLACEMENT INTRAVASC STENT AORTA      | 1                    | 4   | 8   | 11  | 24  | 0                    | 0  | 2   | 4   | 9   |
|                    | ILIO-ILIAC/FEMORAL ENDARTERECTOMY                  | 0                    | 2   | 3   | 4   | 7   | 0                    | 0  | 0   | 1   | 3   |
|                    | EXCISE INFECTED GRAFT, ABDOMEN OR CHEST            | 0                    | 0   | 1   | 1   | 3   | 0                    | 0  | 0   | 1   | 1   |
|                    | REPAIR GRAFT-ENTERIC/AORTO-ENTERIC FISTULA         | 0                    | 0   | 0   | 0   | 0   | 0                    | 0  | 0   | 0   | 0   |
|                    | FEMORAL, PROFUNDA ENDARTERECTOMY                   | 7                    | 14  | 22  | 33  | 44  | 2                    | 7  | 17  | 26  | 48  |
|                    | FEMORAL-POPLITEAL BYPASS, VEIN                     | 4                    | 7   | 10  | 13  | 20  | 0                    | 0  | 0   | 1   | 2   |
|                    | FEMORAL-POPLITEAL BYPASS, PROSTHETIC               | 2                    | 5   | 9   | 12  | 18  | 0                    | 0  | 1   | 2   | 4   |
|                    | TRANSLUMINAL BALLOON ANGIOPLASTY FEMORAL-POPLITEAL | 26                   | 33  | 42  | 58  | 84  | 2                    | 10 | 21  | 30  | 42  |
|                    | TRANSLUMINAL ATHERECTOMY FEMORAL-POPLITEAL         | 0                    | 1   | 3   | 7   | 19  | 0                    | 0  | 0   | 1   | 5   |
|                    | ENDARTERECTOMY, SUPERFICIAL FEMORAL, POPLITEAL     | 0                    | 1   | 3   | 4   | 8   | 0                    | 1  | 4   | 5   | 10  |
|                    | INFRAPOPLITEAL BYPASS, VEIN                        | 6                    | 10  | 16  | 20  | 29  | 0                    | 0  | 0   | 1   | 1   |
|                    | INFRAPOPLITEAL BYPASS, PROSTHETIC                  | 0                    | 2   | 4   | 7   | 12  | 0                    | 0  | 0   | 0   | 1   |
|                    | TRANSLUMINAL BALLON ANGIOPLASTY, TIBIOPERONEAL     | 5                    | 10  | 18  | 27  | 45  | 1                    | 2  | 9   | 14  | 29  |
|                    | TRANSLUMINAL ATHERECTOMY, TIBIOPERONEAL            | 0                    | 0   | 2   | 5   | 13  | 0                    | 0  | 0   | 1   | 4   |
|                    | TRANSCATHETER PLACE OF INTRAVASCULAR STENT NON-COR | 0                    | 0   | 1   | 2   | 4   | 0                    | 0  | 0   | 2   | 4   |
|                    | EXCISE INFECTED GRAFT, PERIPHERAL                  | 0                    | 2   | 3   | 5   | 8   | 0                    | 0  | 1   | 2   | 4   |
|                    | REVISE ARTERIAL BYPASS                             | 1                    | 3   | 4   | 6   | 10  | 0                    | 0  | 1   | 2   | 4   |
|                    | ARTERIAL EMBOLLECTOMY/THROMBECTOMY BY LEG INCISION | 2                    | 7   | 11  | 16  | 20  | 1                    | 4  | 6   | 11  | 20  |
|                    | GRAFT THROMBECTOMY                                 | 0                    | 0   | 0   | 1   | 3   | 0                    | 0  | 0   | 1   | 3   |
|                    | ADJUNCTIVE VEIN CUFF OR AVF                        | 0                    | 0   | 0   | 0   | 0   | 0                    | 0  | 0   | 1   | 3   |
|                    | HARVEST ARM VEIN                                   | 0                    | 0   | 0   | 0   | 0   | 0                    | 0  | 1   | 2   | 5   |
|                    | COMPOSITE LEG BYPASS GRAFT                         | 0                    | 0   | 0   | 0   | 0   | 0                    | 0  | 0   | 2   | 3   |
|                    | RE-DO LOWER EXTREMITY BYPASS                       | 0                    | 0   | 0   | 0   | 0   | 0                    | 0  | 1   | 3   | 10  |
|                    | Subtotal - PERIPH OBSTRUCTIVE                      | 154                  | 180 | 217 | 272 | 364 | 35                   | 74 | 124 | 179 | 212 |

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|                          |  | Surgeon - Total      |    |    |    |    | Secondary Procedures |    |    |    |    |
|--------------------------|--|----------------------|----|----|----|----|----------------------|----|----|----|----|
|                          |  | Resident Percentiles |    |    |    |    | Resident Percentiles |    |    |    |    |
|                          |  | 10                   | 30 | 50 | 70 | 90 | 10                   | 30 | 50 | 70 | 90 |
| RRC Area                 | RRC Procedure                                    |                      |    |    |    |    |                      |    |    |    |    |
| ABDOMINAL OBSTRUCTIVE    | CELIAC/SMA ENDARTERECTOMY, BYPASS                | 0                    | 1  | 2  | 3  | 5  | 0                    | 0  | 0  | 1  | 2  |
|                          | RENAL ENDARTERECTOMY, BYPASS                     | 0                    | 0  | 0  | 1  | 2  | 0                    | 0  | 0  | 0  | 1  |
|                          | EMBOLECTOMY/THROMBECTOMY, RENAL                  | 0                    | 0  | 1  | 1  | 3  | 0                    | 0  | 0  | 0  | 1  |
|                          | TRANSLUMINAL BALLOON ANGIOPLASTY, RENAL          | 0                    | 1  | 1  | 2  | 5  | 0                    | 0  | 1  | 1  | 3  |
|                          | TRANSLUMINAL ATHERECTOMY, RENAL                  | 0                    | 0  | 0  | 0  | 1  | 0                    | 0  | 0  | 0  | 0  |
|                          | TRANSCATHETER PLACE OF STENT, RENAL ARTERY       | 0                    | 3  | 5  | 8  | 13 | 0                    | 0  | 1  | 3  | 9  |
|                          | Subtotal - ABDOMINAL OBSTRUCTIVE                 |                      | 4  | 8  | 12 | 15 | 20                   | 0  | 1  | 4  | 7  |
| UPPER EXTREMITY          | OPEN BRACHIAL ARTERY EXPOSURE                    | 0                    | 0  | 0  | 1  | 3  | 0                    | 0  | 1  | 3  | 9  |
|                          | ARM BYPASS,ENDARTERECTOMY,REPAIR                 | 1                    | 2  | 4  | 6  | 11 | 0                    | 0  | 0  | 1  | 2  |
|                          | TRANSCATH PLACE OF INTRAVASC STENT, NON CORONARY | 0                    | 1  | 1  | 2  | 4  | 0                    | 0  | 0  | 1  | 1  |
|                          | THORACIC OUTLET DECOMPRESSION PROC               | 0                    | 0  | 1  | 3  | 5  | 0                    | 0  | 0  | 0  | 1  |
|                          | EMBOLECTOMY/THROMBECTOMY, BY ARM INCISION        | 0                    | 2  | 4  | 6  | 10 | 0                    | 0  | 1  | 2  | 4  |
|                          | Subtotal - UPPER EXTREMITY                       |                      | 4  | 9  | 12 | 16 | 23                   | 0  | 1  | 4  | 8  |
| EXTRA-ANATOMIC           | AXILLO-FEMORAL BYPASS                            | 1                    | 3  | 4  | 7  | 10 | 0                    | 0  | 0  | 1  | 2  |
|                          | AXILLO-POPLITEAL-TIBIAL BYPASS                   | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0  |
|                          | FEMORAL-FEMORAL BYPASS                           | 1                    | 3  | 5  | 8  | 10 | 0                    | 1  | 1  | 2  | 5  |
|                          | Subtotal - EXTRA-ANATOMIC                        |                      | 3  | 6  | 11 | 14 | 19                   | 0  | 1  | 2  | 3  |
| THROMBOLYSIS/MECH THROMB | TRANSLUMINAL MECHANICAL THROMBECTOMY             | 0                    | 1  | 2  | 5  | 13 | 0                    | 0  | 2  | 3  | 7  |
|                          | THROMBOLYSIS, TRANSARTERIAL, TRANSCATHETER       | 1                    | 3  | 5  | 7  | 15 | 0                    | 0  | 1  | 2  | 5  |
|                          | EXCHANGE OF THROMBOLYSIS CATHETER                | 0                    | 1  | 2  | 4  | 10 | 0                    | 0  | 0  | 1  | 4  |
|                          | Subtotal - THROMBOLYSIS/MECH THROMB              |                      | 2  | 9  | 11 | 17 | 29                   | 0  | 2  | 4  | 6  |

Statistics for surgeon include only procedures for primary credit. Secondary procedures are shown separately and include all roles.



**VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT STATISTICS REPORT (Benchmarks Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
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[PAGE 4 ]      Number of Programs in the Nation: 43    Number of Residents in the Nation: 56

|                      |  | Surgeon - Total      |    |    |    |    | Secondary Procedures |    |    |    |    |
|----------------------|--|----------------------|----|----|----|----|----------------------|----|----|----|----|
|                      |  | Resident Percentiles |    |    |    |    | Resident Percentiles |    |    |    |    |
|                      |  | 10                   | 30 | 50 | 70 | 90 | 10                   | 30 | 50 | 70 | 90 |
| RRC Area             | RRC Procedure                                    |                      |    |    |    |    |                      |    |    |    |    |
| MISC ENDOVASC THERAP | ENDO PLACE ILIAC ARTERY OCCLUS DEV (Sec Only)    | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 1  | 1  | 4  |
|                      | TRANSCATHETER THERAPY, INFUSION NON THROMBOLYSIS | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0  |
|                      | TRANSCATHETER RETRIEVAL OF INTRAVASCULAR FOREIGN | 0                    | 0  | 0  | 0  | 1  | 0                    | 0  | 0  | 0  | 0  |
|                      | TRANSCATHETER ARTERIAL OCCLUSION OR EMBOLIZATION | 0                    | 2  | 4  | 6  | 13 | 0                    | 1  | 3  | 6  | 11 |
|                      | Subtotal - MISC ENDOVASC THERAP                  | 0                    | 2  | 4  | 6  | 13 | 1                    | 1  | 4  | 7  | 16 |
| TRAUMA (VS)          | EXPOSURE OF THORASIC VESSELS                     | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0  |
|                      | REPAIR THORASIC VESSELS                          | 0                    | 0  | 0  | 0  | 2  | 0                    | 0  | 0  | 0  | 1  |
|                      | EXPOSURE OF NECK VESSELS                         | 0                    | 0  | 0  | 0  | 1  | 0                    | 0  | 0  | 0  | 0  |
|                      | REPAIR NECK VESSELS                              | 0                    | 0  | 0  | 1  | 1  | 0                    | 0  | 0  | 0  | 0  |
|                      | EXPOSURE OF ABDOMINAL VESSELS                    | 0                    | 0  | 0  | 0  | 1  | 0                    | 0  | 0  | 0  | 0  |
|                      | REPAIR ABDOMINAL VESSELS                         | 0                    | 0  | 1  | 3  | 6  | 0                    | 0  | 0  | 0  | 2  |
|                      | EXPOSURE OF PERIPHERAL VESSELS                   | 0                    | 0  | 0  | 1  | 6  | 0                    | 0  | 0  | 1  | 2  |
|                      | REPAIR PERIPHERAL VESSELS                        | 0                    | 2  | 5  | 7  | 16 | 0                    | 0  | 1  | 2  | 8  |
|                      | FASCIOTOMY                                       | 0                    | 1  | 1  | 3  | 8  | 0                    | 1  | 4  | 6  | 11 |
|                      | Subtotal - TRAUMA (VS)                           | 2                    | 7  | 11 | 18 | 31 | 0                    | 3  | 6  | 11 | 25 |

Statistics for surgeon include only procedures for primary credit. Secondary procedures are shown separately and include all roles.

**VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT STATISTICS REPORT (Benchmarks Table)**  
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**Residency Review Committee for Surgery**  
**Report Date: September 30, 2019**

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Number of Programs in the Nation: 43 Number of Residents in the Nation: 56

|                         |  | Surgeon - Total                   |    |    |     |     | Secondary Procedures |     |     |     |     |
|-------------------------|--|-----------------------------------|----|----|-----|-----|----------------------|-----|-----|-----|-----|
|                         |  | Resident Percentiles              |    |    |     |     | Resident Percentiles |     |     |     |     |
|                         |  | 10                                | 30 | 50 | 70  | 90  | 10                   | 30  | 50  | 70  | 90  |
| RRC Area                | RRC Procedure                                |                                   |    |    |     |     |                      |     |     |     |     |
| VENOUS                  | PORTAL-SYSTEMIC SHUNT                        | 0                                 | 0  | 0  | 0   | 0   | 0                    | 0   | 0   | 0   | 0   |
|                         | OPERATION FOR VARICOSE VEINS                 | 2                                 | 5  | 11 | 15  | 27  | 0                    | 1   | 5   | 11  | 27  |
|                         | SCLEROTHERAPY, PERIPH VEIN                   | 0                                 | 0  | 0  | 2   | 8   | 0                    | 0   | 0   | 0   | 2   |
|                         | EMBOLECTOMY/THROMBECTOMY, VENOUS             | 0                                 | 0  | 0  | 1   | 2   | 0                    | 0   | 0   | 0   | 2   |
|                         | ENDOLUMINAL ABLATION                         | 3                                 | 8  | 14 | 26  | 41  | 0                    | 0   | 1   | 2   | 9   |
|                         | OPERATIONS FOR VENOUS ULCERATION             | 0                                 | 0  | 0  | 0   | 1   | 0                    | 0   | 0   | 0   | 0   |
|                         | VENOUS RECONSTRUCTION                        | 0                                 | 0  | 1  | 1   | 5   | 0                    | 0   | 0   | 1   | 1   |
|                         | TRANSLUMINAL BALLOON ANGIOPLASTY, VENOUS     | 3                                 | 8  | 15 | 23  | 42  | 0                    | 2   | 6   | 12  | 26  |
|                         | TRANSLUMINAL MECHANICAL THROMBECTOMY, VENOUS | 0                                 | 0  | 2  | 4   | 8   | 0                    | 0   | 0   | 1   | 3   |
|                         | THROMBOLYSIS, TRANSVENOUS, TRANSCATHETER     | 0                                 | 1  | 2  | 3   | 8   | 0                    | 0   | 1   | 1   | 3   |
|                         | INTERRUPTION OF IVC                          | 3                                 | 9  | 14 | 21  | 35  | 0                    | 0   | 1   | 1   | 3   |
| REPAIR A-V MALFORMATION | 0  | 0                                 | 0  | 0  | 0   | 0   | 0                    | 0   | 0   | 0   |     |
|                         | Subtotal - VENOUS                            | 32                                | 56 | 74 | 105 | 137 | 4                    | 14  | 26  | 33  | 54  |
| ENDOASCULAR DIAGNOSTIC  | ARTERIOGRAPHY                                | 47                                | 75 | 94 | 124 | 204 | 44                   | 135 | 247 | 410 | 580 |
|                         | VENOGRAPHY                                   | 2                                 | 7  | 11 | 22  | 43  | 2                    | 5   | 13  | 22  | 53  |
|                         | ANGIOSCOPY                                   | 0                                 | 0  | 0  | 0   | 0   | 0                    | 0   | 0   | 0   | 1   |
|                         | INTRAVASCULAR ULTRASOUND                     | 0                                 | 0  | 0  | 0   | 0   | 0                    | 0   | 0   | 0   | 4   |
|                         |  | Subtotal - ENDOASCULAR DIAGNOSTIC | 47 | 88 | 108 | 166 | 227                  | 50  | 149 | 274 | 435 |
| MISCELLANEOUS VASCULAR  | EXPLORATION OF ARTERY                        | 0                                 | 1  | 3  | 5   | 12  | 0                    | 1   | 4   | 12  | 45  |
|                         | POSTOPERATIVE EXP. FOR BLEED, THROMB, INFECT | 0                                 | 0  | 2  | 3   | 4   | 0                    | 0   | 0   | 1   | 3   |
|                         | MAJOR VASCULAR LIGATION                      | 2                                 | 5  | 9  | 12  | 18  | 0                    | 0   | 1   | 4   | 6   |
|                         | INJECT PSEUDOANEURYSM                        | 0                                 | 0  | 0  | 1   | 3   | 0                    | 0   | 0   | 0   | 0   |
|                         | SPINE EXPOSURE                               | 0                                 | 0  | 0  | 2   | 14  | 0                    | 0   | 0   | 0   | 3   |
|                         | SYMPATHECTOMY                                | 0                                 | 0  | 0  | 0   | 0   | 0                    | 0   | 0   | 0   | 0   |
|                         | LYMPHATIC PROCEDURE                          | 0                                 | 0  | 0  | 0   | 0   | 0                    | 0   | 0   | 0   | 0   |
|                         | OTHER MISCELLANEOUS VASCULAR PROCEDURE       | 0                                 | 0  | 0  | 0   | 2   | 0                    | 0   | 0   | 0   | 1   |
|                         |  | Subtotal - MISCELLANEOUS VASCULAR | 6  | 12 | 19  | 27  | 44                   | 1   | 4   | 11  | 20  |

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**VASCULAR SURGERY - INTEGRATED : NATIONAL RESIDENT STATISTICS REPORT (Benchmarks Table)**  
**Reporting Period: Total Experience of Residents Completing Programs in 2018-2019**  
**Residency Review Committee for Surgery**  
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[PAGE 6 ]      Number of Programs in the Nation: 43    Number of Residents in the Nation: 56

|                            |                                       | Surgeon - Total      |    |    |     |     | Secondary Procedures |    |    |    |    |
|----------------------------|---------------------------------------|----------------------|----|----|-----|-----|----------------------|----|----|----|----|
|                            |                                       | Resident Percentiles |    |    |     |     | Resident Percentiles |    |    |    |    |
|                            |                                       | 10                   | 30 | 50 | 70  | 90  | 10                   | 30 | 50 | 70 | 90 |
| RRC Area                   | RRC Procedure                         |                      |    |    |     |     |                      |    |    |    |    |
| VASCULAR ACCESS            | A-V FISTULA                           | 22                   | 43 | 50 | 65  | 95  | 0                    | 0  | 1  | 1  | 3  |
|                            | A-V GRAFT                             | 7                    | 11 | 18 | 22  | 41  | 0                    | 0  | 0  | 1  | 2  |
|                            | PERCUTANEOUS-OTHER ACCESS             | 0                    | 0  | 0  | 1   | 6   | 0                    | 0  | 0  | 1  | 3  |
|                            | REVISION, A-V ACCESS                  | 6                    | 14 | 22 | 38  | 67  | 0                    | 1  | 2  | 3  | 8  |
|                            | Subtotal - VASCULAR ACCESS            | 37                   | 75 | 95 | 121 | 203 | 1                    | 2  | 4  | 7  | 15 |
| AMPUTATIONS                | AMPUTATION, DIGIT                     | 0                    | 3  | 7  | 10  | 13  | 0                    | 0  | 1  | 3  | 6  |
|                            | AMPUTATION, TRANSMETATARSAL           | 0                    | 3  | 8  | 14  | 23  | 0                    | 0  | 1  | 1  | 5  |
|                            | AMPUTATION, BELOW KNEE                | 7                    | 12 | 19 | 25  | 32  | 0                    | 0  | 0  | 1  | 3  |
|                            | AMPUTATION, ABOVE KNEE                | 4                    | 8  | 13 | 20  | 24  | 0                    | 0  | 0  | 1  | 2  |
|                            | AMPUTATION, UPPER EXTREMITY           | 0                    | 0  | 0  | 0   | 1   | 0                    | 0  | 0  | 0  | 0  |
|                            | AMPUTATION CLOSURE, REVISION          | 0                    | 0  | 1  | 2   | 4   | 0                    | 0  | 0  | 0  | 0  |
|                            | Subtotal - AMPUTATIONS                | 23                   | 36 | 51 | 62  | 82  | 0                    | 1  | 3  | 8  | 15 |
| IMAGING/DIAGNOSTIC STUDIES | CAROTID DUPLEX ULTRASOUND             | 0                    | 0  | 0  | 0   | 0   | 0                    | 0  | 0  | 0  | 0  |
|                            | PERIPHERAL ARTERIAL PHYSIOL TEST      | 0                    | 0  | 0  | 0   | 0   | 0                    | 0  | 0  | 0  | 0  |
|                            | PERIPH ARTERIAL DUPLEX ULTRASOUND     | 0                    | 0  | 0  | 0   | 0   | 0                    | 0  | 0  | 0  | 0  |
|                            | VENOUS DUPLEX ULTRASOUND              | 0                    | 0  | 0  | 0   | 0   | 0                    | 0  | 0  | 0  | 0  |
|                            | VISCERAL VASCULAR ULTRASOUND          | 0                    | 0  | 0  | 0   | 0   | 0                    | 0  | 0  | 0  | 0  |
|                            | TRANSCRANIAL DOPPLER                  | 0                    | 0  | 0  | 0   | 0   | 0                    | 0  | 0  | 0  | 0  |
|                            | Subtotal - IMAGING/DIAGNOSTIC STUDIES | 0                    | 0  | 0  | 0   | 0   | 0                    | 0  | 0  | 0  | 0  |

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|--------------------|-------------------------------|--------------------------------------|----|----|----|----|---------------------------------------|----|----|----|----|
|                    |                               | Surgeon - Total                      |    |    |    |    | Secondary Procedures                  |    |    |    |    |
|                    |                               | Resident Percentiles                 |    |    |    |    | Resident Percentiles                  |    |    |    |    |
|                    |                               | 10                                   | 30 | 50 | 70 | 90 | 10                                    | 30 | 50 | 70 | 90 |
| RRC Area           | RRC Procedure                 |                                      |    |    |    |    |                                       |    |    |    |    |
| SKIN/SOFT TIS      | Subtotal - SKIN/SOFT TIS      | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 1  | 2  | 5  | 12 |
| HEAD/NECK          | Subtotal - HEAD/NECK          | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 0  | 0  | 1  |
| BREAST             | Subtotal - BREAST             | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 0  | 3  | 11 |
| ALIM TR-ESOPHAGUS  | Subtotal - ALIM TR-ESOPHAGUS  | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 0  | 0  | 1  |
| ALIM TR-STOMACH    | Subtotal - ALIM TR-STOMACH    | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 0  | 0  | 2  |
| ALIM TR-SMALL INT  | Subtotal - ALIM TR-SMALL INT  | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 1  | 3  | 7  |
| ALIM TR-LARGE INT  | Subtotal - ALIM TR-LARGE INT  | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 1  | 1  | 4  |
| ALIM TR-ANO-RECTAL | Subtotal - ALIM TR-ANO-RECTAL | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 0  | 0  | 1  |
| ABDOMEN-GENERAL    | Subtotal - ABDOMEN-GENERAL    | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 1  | 3  | 6  | 14 |
| ABDOMEN-LIVER      | Subtotal - ABDOMEN-LIVER      | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 0  | 0  | 1  |
| ABDOMEN-BILIARY    | Subtotal - ABDOMEN-BILIARY    | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 0  | 1  | 2  |
| ABDOMEN-PANCREAS   | Subtotal - ABDOMEN-PANCREAS   | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 0  | 0  | 0  |
| ABDOMEN-SPLEEN     | Subtotal - ABDOMEN-SPLEEN     | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 0  | 0  | 1  |
| ABDOMEN-HERNIA     | Subtotal - ABDOMEN-HERNIA     | 0                                    | 0  | 0  | 0  | 0  | 0                                     | 0  | 1  | 2  | 6  |

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|                                      |  | Surgeon - Total      |    |    |    |    | Secondary Procedures |    |    |    |    |
|--------------------------------------|--|----------------------|----|----|----|----|----------------------|----|----|----|----|
|                                      |  | Resident Percentiles |    |    |    |    | Resident Percentiles |    |    |    |    |
|                                      |  | 10                   | 30 | 50 | 70 | 90 | 10                   | 30 | 50 | 70 | 90 |
| RRC Area                             | RRC Procedure                              |                      |    |    |    |    |                      |    |    |    |    |
| ENDOCRINE                            | Subtotal - ENDOCRINE                       | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 1  |
| HAND                                 | Subtotal - HAND                            | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 1  |
| THORACIC                             | Subtotal - THORACIC                        | 0                    | 0  | 0  | 0  | 0  | 0                    | 2  | 7  | 11 | 28 |
| PEDIATRIC                            | Subtotal - PEDIATRIC                       | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 1  |
| GENITO-URINARY                       | Subtotal - GENITO-URINARY                  | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 2  |
| GYNECOLOGY                           | Subtotal - GYNECOLOGY                      | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 1  |
| PLASTIC                              | Subtotal - PLASTIC                         | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 2  | 4  | 16 |
| NERVOUS SYSTEM                       | Subtotal - NERVOUS SYSTEM                  | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0  |
| ORTHOPAEDICS                         | Subtotal - ORTHOPAEDICS                    | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 2  |
| ORGAN TRANSPLANT                     | Subtotal - ORGAN TRANSPLANT                | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 4  | 11 |
| TRAUMA                               | Subtotal - TRAUMA                          | 0                    | 0  | 0  | 0  | 0  | 0                    | 1  | 4  | 6  | 15 |
| ENDOSCOPY (NOT FOR MAJOR CREDIT)     | Subtotal - ENDOSCOPY (NOT MAJOR CRED)      | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 1  | 3  | 7  |
| MISCELLANEOUS (NOT FOR MAJOR CREDIT) | Subtotal - MISC (NOT MAJOR CRED)           | 0                    | 0  | 0  | 0  | 0  | 1                    | 4  | 11 | 19 | 34 |
| PATIENT CARE (NOT FOR MAJOR CREDIT)  | Subtotal - PATIENT CARE (NOT MAJOR CRED)   | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0  |
| SURGICAL CRITICAL CARE PAT MGMNT     | Subtotal - CRITCARE PAT MAN (NOT MAJ CRED) | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 8  | 72 |

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Number of Programs in the Nation: 43    Number of Residents in the Nation: 56

|                                       |   | Surgeon - Total      |    |    |    |    | Secondary Procedures |    |    |    |     |
|---------------------------------------|---|----------------------|----|----|----|----|----------------------|----|----|----|-----|
|                                       |   | Resident Percentiles |    |    |    |    | Resident Percentiles |    |    |    |     |
|                                       |   | 10                   | 30 | 50 | 70 | 90 | 10                   | 30 | 50 | 70 | 90  |
| RRC Area                              | RRC Procedure                               |                      |    |    |    |    |                      |    |    |    |     |
| CRITICAL CARE (NOT FOR MAJOR CREDIT)  | Subtotal - CRITICAL CARE (NOT FOR MAJ CRED) | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0   |
| OTOLARYNGOLOGY (NOT FOR MAJOR CREDIT) | Subtotal - OTOLARYN (NOT FOR MAJ CRED)      | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0   |
| UROLOGY (NOT FOR MAJOR CREDIT)        | Subtotal - UROLOGY (NOT FOR MAJ CRED)       | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0   |
| NEUROSURGERY (NOT FOR MAJOR CREDIT)   | Subtotal - NEUROSURG (NOT FOR MAJ CRED)     | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 3   |
| GYNECOLOGY (NOT FOR MAJOR CREDIT)     | Subtotal - GYNECOLOGY (NOT FOR MAJ CRED)    | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 0   |
| RADIOLOGY (NOT FOR MAJOR CREDIT)      | Subtotal - RADIOLOGY (NOT FOR MAJ CRED)     | 0                    | 0  | 0  | 0  | 0  | 0                    | 2  | 10 | 39 | 225 |
| ULTRASOUND (NOT FOR MAJOR CREDIT)     | Subtotal - ULTRASOUND (NOT FOR MAJ CRED)    | 0                    | 0  | 0  | 0  | 0  | 0                    | 0  | 0  | 0  | 3   |

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