

**Supplemental Digital Content 1: differences in the frequency of experienced strain between professional groups, for each category of strain (dependent variable)**

**1) Differences in experienced task complexity across the different professional groups**

Tests of Between-Subjects Effects

| Source          | Type III<br>Sum of<br>Squares | df  | Mean<br>Square | F      | Sig.  |
|-----------------|-------------------------------|-----|----------------|--------|-------|
| Corrected Model | 19.78 <sup>a</sup>            | 5   | 3.96           | 10.06  | 0.000 |
| Intercept       | 68.59                         | 1   | 68.59          | 174.53 | 0.000 |
| prof_group      | 19.78                         | 5   | 3.96           | 10.06  | 0.000 |
| Error           | 255.44                        | 650 | 0.39           |        |       |
| Total           | 347.00                        | 656 |                |        |       |
| Corrected Total | 275.22                        | 655 |                |        |       |

a. R Squared = .072 (Adjusted R Squared = .065)

Multiple Comparisons

|            |             | Mean<br>Difference<br>(I-J) | Std.<br>Error | Sig.  | 95% Confidence<br>Interval |                |
|------------|-------------|-----------------------------|---------------|-------|----------------------------|----------------|
|            |             |                             |               |       | Lower<br>Bound             | Upper<br>Bound |
| surgeon    | resident    | 0.07                        | 0.08          | 1.000 | -0.18                      | 0.32           |
|            | student     | 0.25                        | 0.11          | 0.320 | -0.07                      | 0.56           |
|            | scrub tech  | 0.50                        | 0.08          | 0.000 | 0.26                       | 0.74           |
|            | circulator  | 0.35                        | 0.08          | 0.000 | 0.11                       | 0.58           |
|            | anesthetist | 0.26                        | 0.08          | 0.027 | 0.02                       | 0.51           |
|            | resident    | -0.07                       | 0.08          | 1.000 | -0.32                      | 0.18           |
| resident   | student     | 0.18                        | 0.11          | 1.000 | -0.14                      | 0.49           |
|            | scrub tech  | 0.43                        | 0.08          | 0.000 | 0.19                       | 0.67           |
|            | circulator  | 0.28                        | 0.08          | 0.008 | 0.04                       | 0.51           |
|            | anesthetist | 0.19                        | 0.08          | 0.292 | -0.05                      | 0.43           |
|            | student     | -0.25                       | 0.11          | 0.320 | -0.56                      | 0.07           |
|            | surgeon     | -0.18                       | 0.11          | 1.000 | -0.49                      | 0.14           |
| student    | resident    | 0.26                        | 0.10          | 0.213 | -0.05                      | 0.56           |
|            | scrub tech  | 0.10                        | 0.10          | 1.000 | -0.20                      | 0.40           |
|            | circulator  | 0.02                        | 0.11          | 1.000 | -0.29                      | 0.33           |
|            | anesthetist | -0.50                       | 0.08          | 0.000 | -0.74                      | -0.26          |
| scrub tech | surgeon     | -0.43                       | 0.08          | 0.000 | -0.67                      | -0.19          |
|            | resident    | -0.26                       | 0.10          | 0.213 | -0.56                      | 0.05           |
|            | student     |                             |               |       |                            |                |

|             |             | Mean Difference<br>(I-J) | Std. Error | Sig.  | 95% Confidence Interval |             |
|-------------|-------------|--------------------------|------------|-------|-------------------------|-------------|
|             |             |                          |            |       | Lower Bound             | Upper Bound |
| circulator  | circulator  | -0.16                    | 0.08       | 0.661 | -0.38                   | 0.07        |
|             | anesthetist | -0.24                    | 0.08       | 0.046 | -0.47                   | 0.00        |
|             | surgeon     | -0.35                    | 0.08       | 0.000 | -0.58                   | -0.11       |
|             | resident    | -0.28                    | 0.08       | 0.008 | -0.51                   | -0.04       |
|             | student     | -0.10                    | 0.10       | 1.000 | -0.40                   | 0.20        |
| anesthetist | scrub tech  | 0.16                     | 0.08       | 0.661 | -0.07                   | 0.38        |
|             | anesthetist | -0.08                    | 0.08       | 1.000 | -0.32                   | 0.15        |
|             | surgeon     | -0.26                    | 0.08       | 0.027 | -0.51                   | -0.02       |
|             | resident    | -0.19                    | 0.08       | 0.292 | -0.43                   | 0.05        |
|             | student     | -0.02                    | 0.11       | 1.000 | -0.33                   | 0.29        |
|             |             |                          |            |       |                         |             |
|             |             |                          |            |       |                         |             |
|             |             |                          |            |       |                         |             |
|             |             |                          |            |       |                         |             |
|             |             |                          |            |       |                         |             |

Based on observed means.

The error term is Mean Square(Error) = .393.

## 2) Differences in experienced patient issues across the different professional groups

Tests of Between-Subjects Effects

| Source          | Type III<br>Sum of<br>Squares | df  | Mean<br>Square | F     | Sig.  |
|-----------------|-------------------------------|-----|----------------|-------|-------|
| Corrected Model | 2.30 <sup>a</sup>             | 5   | 0.46           | 4.05  | 0.001 |
| Intercept       | 5.27                          | 1   | 5.27           | 46.35 | 0.000 |
| prof_group      | 2.30                          | 5   | 0.46           | 4.05  | 0.001 |
| Error           | 73.84                         | 650 | 0.11           |       |       |
| Total           | 82.00                         | 656 |                |       |       |
| Corrected Total | 76.14                         | 655 |                |       |       |

a. R Squared = .030 (Adjusted R Squared = .023)

Multiple Comparisons

|            |             | Mean<br>Difference<br>(I-J) | Std.<br>Error | Sig.  | 95% Confidence<br>Interval |                |
|------------|-------------|-----------------------------|---------------|-------|----------------------------|----------------|
|            |             |                             |               |       | Lower<br>Bound             | Upper<br>Bound |
| surgeon    | resident    | 0.00                        | 0.05          | 1.000 | -0.13                      | 0.14           |
|            | student     | 0.08                        | 0.06          | 1.000 | -0.09                      | 0.25           |
|            | scrub tech  | 0.12                        | 0.04          | 0.126 | -0.01                      | 0.25           |
|            | circulator  | 0.10                        | 0.04          | 0.261 | -0.02                      | 0.23           |
|            | anesthetist | -0.03                       | 0.05          | 1.000 | -0.16                      | 0.10           |
|            | surgeon     | 0.00                        | 0.05          | 1.000 | -0.14                      | 0.13           |
| resident   | student     | 0.08                        | 0.06          | 1.000 | -0.09                      | 0.25           |
|            | scrub tech  | 0.11                        | 0.04          | 0.124 | -0.01                      | 0.24           |
|            | circulator  | 0.10                        | 0.04          | 0.260 | -0.02                      | 0.23           |
|            | anesthetist | -0.03                       | 0.04          | 1.000 | -0.16                      | 0.10           |
|            | surgeon     | -0.08                       | 0.06          | 1.000 | -0.25                      | 0.09           |
|            | resident    | -0.08                       | 0.06          | 1.000 | -0.25                      | 0.09           |
| student    | scrub tech  | 0.04                        | 0.06          | 1.000 | -0.13                      | 0.20           |
|            | circulator  | 0.02                        | 0.06          | 1.000 | -0.14                      | 0.19           |
|            | anesthetist | -0.11                       | 0.06          | 0.718 | -0.28                      | 0.05           |
|            | surgeon     | -0.12                       | 0.04          | 0.126 | -0.25                      | 0.01           |
|            | resident    | -0.11                       | 0.04          | 0.124 | -0.24                      | 0.01           |
|            | student     | -0.04                       | 0.06          | 1.000 | -0.20                      | 0.13           |
| scrub tech | circulator  | -0.01                       | 0.04          | 1.000 | -0.14                      | 0.11           |
|            | anesthetist | -0.15                       | 0.04          | 0.010 | -0.27                      | -0.02          |
|            | surgeon     | -0.10                       | 0.04          | 0.261 | -0.23                      | 0.02           |
|            | resident    | -0.10                       | 0.04          | 0.260 | -0.23                      | 0.02           |
|            | student     | -0.02                       | 0.06          | 1.000 | -0.19                      | 0.14           |

|             |             | Mean<br>Difference<br>(I-J) | Std.<br>Error | Sig.  | 95% Confidence<br>Interval |                |
|-------------|-------------|-----------------------------|---------------|-------|----------------------------|----------------|
|             |             |                             |               |       | Lower<br>Bound             | Upper<br>Bound |
| anesthetist | scrub tech  | 0.01                        | 0.04          | 1.000 | -0.11                      | 0.14           |
|             | anesthetist | -0.13                       | 0.04          | 0.024 | -0.26                      | -0.01          |
|             | surgeon     | 0.03                        | 0.05          | 1.000 | -0.10                      | 0.16           |
|             | resident    | 0.03                        | 0.04          | 1.000 | -0.10                      | 0.16           |
|             | student     | 0.11                        | 0.06          | 0.718 | -0.05                      | 0.28           |
|             | scrub tech  | 0.15                        | 0.04          | 0.010 | 0.02                       | 0.27           |
|             | circulator  | 0.13                        | 0.04          | 0.024 | 0.01                       | 0.26           |

Based on observed means.

The error term is Mean Square(Error) = .114.

### 3) Differences in experienced issues with material and resources across the different professional groups

Tests of Between-Subjects Effects

| Source          | Type III<br>Sum of<br>Squares | df  | Mean<br>Square | F     | Sig.  |
|-----------------|-------------------------------|-----|----------------|-------|-------|
| Corrected Model | 0.96 <sup>a</sup>             | 5   | 0.19           | 1.83  | 0.104 |
| Intercept       | 4.30                          | 1   | 4.30           | 41.19 | 0.000 |
| prof_group      | 0.96                          | 5   | 0.19           | 1.83  | 0.104 |
| Error           | 67.91                         | 650 | 0.10           |       |       |
| Total           | 74.00                         | 656 |                |       |       |
| Corrected Total | 68.87                         | 655 |                |       |       |

a. R Squared = .014 (Adjusted R Squared = .006)

Multiple Comparisons

|            |             | Mean<br>Difference<br>(I-J) | Std.<br>Error | Sig.  | 95% Confidence<br>Interval |                |
|------------|-------------|-----------------------------|---------------|-------|----------------------------|----------------|
|            |             |                             |               |       | Lower<br>Bound             | Upper<br>Bound |
| surgeon    | resident    | 0.10                        | 0.04          | 0.365 | -0.03                      | 0.23           |
|            | student     | 0.09                        | 0.06          | 1.000 | -0.07                      | 0.25           |
|            | scrub tech  | 0.06                        | 0.04          | 1.000 | -0.07                      | 0.18           |
|            | circulator  | 0.03                        | 0.04          | 1.000 | -0.09                      | 0.16           |
|            | anesthetist | 0.11                        | 0.04          | 0.206 | -0.02                      | 0.23           |
|            | resident    | -0.10                       | 0.04          | 0.365 | -0.23                      | 0.03           |
| resident   | student     | -0.01                       | 0.05          | 1.000 | -0.17                      | 0.15           |
|            | scrub tech  | -0.04                       | 0.04          | 1.000 | -0.16                      | 0.08           |
|            | circulator  | -0.07                       | 0.04          | 1.000 | -0.19                      | 0.06           |
|            | anesthetist | 0.01                        | 0.04          | 1.000 | -0.12                      | 0.13           |
|            | student     | -0.09                       | 0.06          | 1.000 | -0.25                      | 0.07           |
|            | surgeon     | 0.01                        | 0.05          | 1.000 | -0.15                      | 0.17           |
| student    | resident    | -0.03                       | 0.05          | 1.000 | -0.19                      | 0.12           |
|            | scrub tech  | -0.06                       | 0.05          | 1.000 | -0.21                      | 0.10           |
|            | circulator  | 0.02                        | 0.05          | 1.000 | -0.14                      | 0.18           |
|            | anesthetist | -0.06                       | 0.04          | 1.000 | -0.18                      | 0.07           |
|            | resident    | 0.04                        | 0.04          | 1.000 | -0.08                      | 0.16           |
|            | surgeon     | 0.03                        | 0.05          | 1.000 | -0.12                      | 0.19           |
| scrub tech | circulator  | -0.02                       | 0.04          | 1.000 | -0.14                      | 0.09           |
|            | anesthetist | 0.05                        | 0.04          | 1.000 | -0.07                      | 0.17           |
|            | surgeon     | -0.03                       | 0.04          | 1.000 | -0.16                      | 0.09           |
|            | resident    | 0.07                        | 0.04          | 1.000 | -0.06                      | 0.19           |
|            | student     | 0.06                        | 0.05          | 1.000 | -0.10                      | 0.21           |
|            | scrub tech  | 0.02                        | 0.04          | 1.000 | -0.09                      | 0.14           |

|             |             | Mean<br>Difference<br>(I-J) | Std.<br>Error | Sig.  | 95% Confidence<br>Interval |                |
|-------------|-------------|-----------------------------|---------------|-------|----------------------------|----------------|
|             |             |                             |               |       | Lower<br>Bound             | Upper<br>Bound |
| anesthetist | anesthetist | 0.07                        | 0.04          | 1.000 | -0.05                      | 0.19           |
|             | surgeon     | -0.11                       | 0.04          | 0.206 | -0.23                      | 0.02           |
|             | resident    | -0.01                       | 0.04          | 1.000 | -0.13                      | 0.12           |
|             | student     | -0.02                       | 0.05          | 1.000 | -0.18                      | 0.14           |
|             | scrub tech  | -0.05                       | 0.04          | 1.000 | -0.17                      | 0.07           |
|             | circulator  | -0.07                       | 0.04          | 1.000 | -0.19                      | 0.05           |

Based on observed means.

The error term is Mean Square(Error) = .104.

#### 4) Differences in reporting others' behaviors across the different professional groups

Tests of Between-Subjects Effects

| Source          | Type III<br>Sum of<br>Squares | df  | Mean<br>Square | F     | Sig.  |
|-----------------|-------------------------------|-----|----------------|-------|-------|
| Corrected Model | 0.67a                         | 5   | 0.13           | 1.32  | 0.255 |
| Intercept       | 4.29                          | 1   | 4.29           | 41.91 | 0.000 |
| prof_group      | 0.67                          | 5   | 0.13           | 1.32  | 0.255 |
| Error           | 66.55                         | 650 | 0.10           |       |       |
| Total           | 72.00                         | 656 |                |       |       |
| Corrected Total | 67.22                         | 655 |                |       |       |

a. R Squared = .010 (Adjusted R Squared = .002)

Multiple Comparisons

|            |             | Mean<br>Difference<br>(I-J) | Std.<br>Error | Sig.  | 95% Confidence<br>Interval |                |
|------------|-------------|-----------------------------|---------------|-------|----------------------------|----------------|
|            |             |                             |               |       | Lower<br>Bound             | Upper<br>Bound |
| surgeon    | resident    | 0.06                        | 0.04          | 1.000 | -0.07                      | 0.19           |
|            | student     | 0.00                        | 0.05          | 1.000 | -0.16                      | 0.17           |
|            | scrub tech  | 0.02                        | 0.04          | 1.000 | -0.11                      | 0.14           |
|            | circulator  | -0.03                       | 0.04          | 1.000 | -0.15                      | 0.09           |
|            | anesthetist | 0.05                        | 0.04          | 1.000 | -0.07                      | 0.18           |
|            | resident    | -0.06                       | 0.04          | 1.000 | -0.19                      | 0.07           |
| resident   | student     | -0.05                       | 0.05          | 1.000 | -0.21                      | 0.10           |
|            | scrub tech  | -0.04                       | 0.04          | 1.000 | -0.16                      | 0.08           |
|            | circulator  | -0.09                       | 0.04          | 0.437 | -0.21                      | 0.03           |
|            | anesthetist | -0.01                       | 0.04          | 1.000 | -0.13                      | 0.12           |
|            | student     | 0.00                        | 0.05          | 1.000 | -0.17                      | 0.16           |
|            | surgeon     | 0.05                        | 0.05          | 1.000 | -0.10                      | 0.21           |
| student    | resident    | 0.01                        | 0.05          | 1.000 | -0.14                      | 0.17           |
|            | scrub tech  | -0.03                       | 0.05          | 1.000 | -0.19                      | 0.12           |
|            | circulator  | 0.05                        | 0.05          | 1.000 | -0.11                      | 0.20           |
|            | anesthetist | -0.02                       | 0.04          | 1.000 | -0.14                      | 0.11           |
|            | scrub tech  | 0.04                        | 0.04          | 1.000 | -0.08                      | 0.16           |
|            | resident    | -0.01                       | 0.05          | 1.000 | -0.17                      | 0.14           |
| scrub tech | circulator  | -0.05                       | 0.04          | 1.000 | -0.16                      | 0.07           |
|            | anesthetist | 0.03                        | 0.04          | 1.000 | -0.09                      | 0.16           |
|            | surgeon     | 0.09                        | 0.04          | 0.437 | -0.03                      | 0.21           |
|            | resident    | 0.03                        | 0.05          | 1.000 | -0.12                      | 0.19           |
|            | student     | 0.05                        | 0.04          | 1.000 | -0.07                      | 0.16           |

|             |            | Mean<br>Difference<br>(I-J) | Std.<br>Error | Sig.  | 95% Confidence<br>Interval |                |
|-------------|------------|-----------------------------|---------------|-------|----------------------------|----------------|
|             |            |                             |               |       | Lower<br>Bound             | Upper<br>Bound |
| anesthetist | surgeon    | -0.05                       | 0.04          | 1.000 | -0.18                      | 0.07           |
|             | resident   | 0.01                        | 0.04          | 1.000 | -0.12                      | 0.13           |
|             | student    | -0.05                       | 0.05          | 1.000 | -0.20                      | 0.11           |
|             | scrub tech | -0.03                       | 0.04          | 1.000 | -0.16                      | 0.09           |
|             | circulator | -0.08                       | 0.04          | 0.707 | -0.20                      | 0.04           |

Based on observed means.

The error term is Mean Square(Error) = .102.

**5) Differences in experienced issues with knowledge, skills or own performance across the different professional groups.**

Tests of Between-Subjects Effects

| Source          | Type III Sum of Squares |             |      |       |       |
|-----------------|-------------------------|-------------|------|-------|-------|
|                 | df                      | Mean Square | F    | Sig.  |       |
| Corrected Model | 1.89 <sup>a</sup>       | 5           | 0.38 | 3.11  | 0.009 |
| Intercept       | 7.15                    | 1           | 7.15 | 58.80 | 0.000 |
| prof_group      | 1.89                    | 5           | 0.38 | 3.11  | 0.009 |
| Error           | 79.06                   | 650         | 0.12 |       |       |
| Total           | 87.00                   | 656         |      |       |       |
| Corrected Total | 80.95                   | 655         |      |       |       |

a. R Squared = .023 (Adjusted R Squared = .016)

Multiple Comparisons

|            |             | Mean Difference<br>(I-J) | Std. Error | Sig.  | 95% Confidence Interval |             |
|------------|-------------|--------------------------|------------|-------|-------------------------|-------------|
|            |             |                          |            |       | Lower Bound             | Upper Bound |
| surgeon    | resident    | 0.03                     | 0.05       | 1.000 | -0.11                   | 0.17        |
|            | student     | -0.08                    | 0.06       | 1.000 | -0.25                   | 0.10        |
|            | scrub tech  | 0.05                     | 0.05       | 1.000 | -0.09                   | 0.18        |
|            | circulator  | 0.13                     | 0.04       | 0.081 | -0.01                   | 0.26        |
|            | anesthetist | 0.05                     | 0.05       | 1.000 | -0.08                   | 0.19        |
|            | surgeon     | -0.03                    | 0.05       | 1.000 | -0.17                   | 0.11        |
| resident   | student     | -0.10                    | 0.06       | 1.000 | -0.28                   | 0.07        |
|            | scrub tech  | 0.02                     | 0.04       | 1.000 | -0.11                   | 0.15        |
|            | circulator  | 0.10                     | 0.04       | 0.407 | -0.03                   | 0.23        |
|            | anesthetist | 0.03                     | 0.05       | 1.000 | -0.11                   | 0.16        |
|            | surgeon     | 0.08                     | 0.06       | 1.000 | -0.10                   | 0.25        |
|            | resident    | 0.10                     | 0.06       | 1.000 | -0.07                   | 0.28        |
| student    | scrub tech  | 0.12                     | 0.06       | 0.527 | -0.05                   | 0.29        |
|            | circulator  | 0.20                     | 0.06       | 0.007 | 0.03                    | 0.37        |
|            | anesthetist | 0.13                     | 0.06       | 0.396 | -0.04                   | 0.30        |
|            | surgeon     | -0.05                    | 0.05       | 1.000 | -0.18                   | 0.09        |
|            | resident    | -0.02                    | 0.04       | 1.000 | -0.15                   | 0.11        |
|            | student     | -0.12                    | 0.06       | 0.527 | -0.29                   | 0.05        |
| scrub tech | circulator  | 0.08                     | 0.04       | 0.980 | -0.05                   | 0.21        |
|            | anesthetist | 0.01                     | 0.04       | 1.000 | -0.12                   | 0.14        |
|            | surgeon     | -0.13                    | 0.04       | 0.081 | -0.26                   | 0.01        |
|            | resident    | -0.10                    | 0.04       | 0.407 | -0.23                   | 0.03        |
|            | student     | -0.20                    | 0.06       | 0.007 | -0.37                   | -0.03       |

|             |             | Mean<br>Difference<br>(I-J) | Std.<br>Error | Sig.  | 95% Confidence<br>Interval |                |
|-------------|-------------|-----------------------------|---------------|-------|----------------------------|----------------|
|             |             |                             |               |       | Lower<br>Bound             | Upper<br>Bound |
| anesthetist | anesthetist | -0.07                       | 0.04          | 1.000 | -0.20                      | 0.06           |
|             | surgeon     | -0.05                       | 0.05          | 1.000 | -0.19                      | 0.08           |
|             | resident    | -0.03                       | 0.05          | 1.000 | -0.16                      | 0.11           |
|             | student     | -0.13                       | 0.06          | 0.396 | -0.30                      | 0.04           |
|             | scrub tech  | -0.01                       | 0.04          | 1.000 | -0.14                      | 0.12           |
|             | circulator  | 0.07                        | 0.04          | 1.000 | -0.06                      | 0.20           |

Based on observed means.

The error term is Mean Square(Error) = .122.

**6) Differences in observation of others' strain across the different professional groups.**

Tests of Between-Subjects Effects

| Source          | Type III<br>Sum of<br>Squares | df  | Mean<br>Square | F     | Sig.  |
|-----------------|-------------------------------|-----|----------------|-------|-------|
| Corrected Model | 0.42 <sup>a</sup>             | 5   | 0.08           | 3.57  | 0.003 |
| Intercept       | 0.47                          | 1   | 0.47           | 20.10 | 0.000 |
| prof_group      | 0.42                          | 5   | 0.08           | 3.57  | 0.003 |
| Error           | 15.28                         | 650 | 0.02           |       |       |
| Total           | 16.00                         | 656 |                |       |       |
| Corrected Total | 15.70                         | 655 |                |       |       |

a. R Squared = .027 (Adjusted R Squared = .019)

Multiple Comparisons

|            |             | Mean<br>Difference<br>(I-J) | Std.<br>Error | Sig.  | 95% Confidence<br>Interval |                |
|------------|-------------|-----------------------------|---------------|-------|----------------------------|----------------|
|            |             |                             |               |       | Lower<br>Bound             | Upper<br>Bound |
| surgeon    | resident    | -0.02                       | 0.02          | 1.000 | -0.08                      | 0.04           |
|            | student     | -0.10                       | 0.03          | 0.003 | -0.17                      | -0.02          |
|            | scrub tech  | 0.00                        | 0.02          | 1.000 | -0.06                      | 0.06           |
|            | circulator  | -0.03                       | 0.02          | 1.000 | -0.09                      | 0.03           |
|            | anesthetist | -0.03                       | 0.02          | 1.000 | -0.09                      | 0.03           |
|            | resident    | 0.02                        | 0.02          | 1.000 | -0.04                      | 0.08           |
| resident   | student     | -0.08                       | 0.03          | 0.027 | -0.16                      | 0.00           |
|            | scrub tech  | 0.02                        | 0.02          | 1.000 | -0.04                      | 0.08           |
|            | circulator  | -0.01                       | 0.02          | 1.000 | -0.07                      | 0.05           |
|            | anesthetist | -0.01                       | 0.02          | 1.000 | -0.07                      | 0.05           |
|            | student     | 0.10                        | 0.03          | 0.003 | 0.02                       | 0.17           |
|            | surgeon     | 0.08                        | 0.03          | 0.027 | 0.00                       | 0.16           |
| student    | resident    | 0.10                        | 0.03          | 0.002 | 0.02                       | 0.17           |
|            | scrub tech  | 0.07                        | 0.03          | 0.096 | -0.01                      | 0.14           |
|            | circulator  | 0.07                        | 0.03          | 0.076 | 0.00                       | 0.15           |
|            | anesthetist | 0.07                        | 0.03          | 0.076 | 0.00                       | 0.15           |
|            | scrub tech  | 0.00                        | 0.02          | 1.000 | -0.06                      | 0.06           |
|            | resident    | -0.02                       | 0.02          | 1.000 | -0.08                      | 0.04           |
| circulator | student     | -0.10                       | 0.03          | 0.002 | -0.17                      | -0.02          |
|            | scrub tech  | -0.03                       | 0.02          | 1.000 | -0.08                      | 0.03           |
|            | anesthetist | -0.03                       | 0.02          | 1.000 | -0.08                      | 0.03           |
|            | surgeon     | 0.03                        | 0.02          | 1.000 | -0.03                      | 0.09           |
|            | resident    | 0.01                        | 0.02          | 1.000 | -0.05                      | 0.07           |
|            | student     | -0.07                       | 0.03          | 0.096 | -0.14                      | 0.01           |
| scrub tech | scrub tech  | 0.03                        | 0.02          | 1.000 | -0.03                      | 0.08           |

|             |            | Mean<br>Difference<br>(I-J) | Std.<br>Error | Sig.  | 95% Confidence<br>Interval |                |
|-------------|------------|-----------------------------|---------------|-------|----------------------------|----------------|
|             |            |                             |               |       | Lower<br>Bound             | Upper<br>Bound |
| anesthetist | surgeon    | 0.03                        | 0.02          | 1.000 | -0.03                      | 0.09           |
|             | resident   | 0.01                        | 0.02          | 1.000 | -0.05                      | 0.07           |
|             | student    | -0.07                       | 0.03          | 0.076 | -0.15                      | 0.00           |
|             | scrub tech | 0.03                        | 0.02          | 1.000 | -0.03                      | 0.08           |
|             | circulator | 0.00                        | 0.02          | 1.000 | -0.06                      | 0.05           |

Based on observed means.

The error term is Mean Square(Error) = .024.