

## 1.0 Appendix

Table A1: Significant relationships between major and minor flow disruptions.

Model number	Dependent variable	Independent variable(s)	Model type
1	Major flow disruption	1. Minor flow disruptions (***)	Linear regression
2	Major flow disruption	Minor flow disruption by type: 1. Layout (*) 2. Environmental hazard 3. Interruption	Linear regression
3	Major flow disruption	Minor flow disruption by subtype: 1. Inadequate space 2. Connector positioning 3. Equipment/furniture positioning (**) 4. Excessive reach 5. Collision/bumping 6. Slipping/falling/tripping	Linear regression
4	Major flow disruption	Minor flow disruption by zone: 1. Anesthesia zone 2. Transitional zone 1 3. Transitional zone 2 (**) 4. Transitional zone 3 5. Surgical table zone 1 6. Surgical table zone 2 7. Foot of surgery zone	Linear regression
5	Major flow disruption	Minor flow disruption by staff types involved: 1. RN, circulating (.) 2. Anesthesiologist/student/resident (*) 3. RN, Scrub/surgical tech/student 4. Other	Linear regression
6	Major flow disruption	Minor flow disruption by activity types involved: 1. Patient 2. Equipment (**) 3. Material 4. Information	Linear regression

Significance codes: 0 (\*\*\*) 0.001 (\*\*) 0.01 (\*) 0.05 (.) 0.1

Table A2: Significant relationships between flow disruptions and number of transitions, average density, and number of staff in the OR.

Model number	Dependent variable	Independent variable(s)	Model type
7	Major flow disruption	1. Number of transitions in the OR 2. Average density of the OR 3. Number of staff in the OR	Linear regression
8	Major flow disruption	1. Average density of Anesthesia zone 2. Average density of Transitional zone 1 3. Average density of Transitional zone 2 (.) 4. Average density of Transitional zone 3 5. Average density of Surgical table zone 1 6. Average density of Surgical table zone 2	Linear regression
9	Major flow disruption	1. Number of transitions in Anesthesia zone 2. Number of transitions in Transitional zone 1 3. Number of transitions in Transitional zone 2 4. Number of transitions in Transitional zone 3 (**) 5. Number of transitions in Surgical table zone 1 (**) 6. Number of transitions in Surgical table zone 2	Linear regression
10	All flow disruptions	1. Number of transitions in the OR (***) 2. Average density of the OR (***) 3. Number of staff in the OR	Logistic regression

Significance codes: 0 (\*\*\*) 0.001 (\*\*) 0.01 (\*) 0.05 (.) 0.1