Appendix Table 1. Sensitivity analysis of age as a risk factor for post-operative complications (Age ≥60)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Predictors\*** | **Odds Ratio** | **95% Confidence Limits** | | **p-value** |
| Age ≥ 60 vs. <60 | 1.16 | 1.02 | 1.31 | 0.02 |
| Male vs. Female | 1.12 | 0.98 | 1.28 | 0.11 |
| BMI ≥30 vs. <30 | 1.11 | 0.99 | 1.24 | 0.09 |
| Non-Caucasian vs. Caucasian | 1.27 | 1.13 | 1.43 | <0.0001 |
| Diabetic Yes vs. No | 1.04 | 0.90 | 1.21 | 0.60 |
| Smoker Yes vs. No | 1.27 | 1.10 | 1.46 | 0.0009 |
| Functional Status Dependent vs. Independent | 3.25 | 2.30 | 4.60 | <0.0001 |
| CHF Yes vs. No | 2.31 | 1.33 | 3.99 | 0.003 |
| Hypertensive Yes vs. No | 1.15 | 1.01 | 1.30 | 0.03 |
| Dialysis Yes vs. No | 1.75 | 1.01 | 3.03 | 0.05 |
| Wound Infection Yes vs. No | 1.79 | 0.95 | 3.37 | 0.07 |
| Steroids Yes vs. No | 1.66 | 1.27 | 2.17 | 0.0002 |
| Bleeding Disorder Yes vs. No | 1.80 | 1.32 | 2.44 | 0.0002 |
| Pre-Operative Sepsis Yes vs. No | 3.77 | 2.35 | 6.05 | <0.0001 |
| ASA Class ≥ 3 vs. 1-2 | 1.91 | 1.69 | 2.16 | <0.0001 |
| ICD9 Cancer vs. Non-toxic Goiter | 1.27 | 1.13 | 1.44 | 0.0001 |
| ICD9 Benign Neoplasm vs. Non-toxic Goiter | 1.02 | 0.80 | 1.30 | 0.85 |
| ICD9 Thyrotoxicosis vs. Non-toxic Goiter | 1.13 | 0.96 | 1.34 | 0.14 |
| Outpatient vs. Inpatient | 0.57 | 0.51 | 0.64 | <0.0001 |

* ASA=American Society of Anesthesiology, BMI= Body Mass Index, CHF = Congestive Heart Failure, HTN=Hypertension, ICD=International classification of diseases

Appendix Table 2. Sensitivity analysis of age as a risk factor for post-operative complications (Age ≥65)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Predictors\*** | **Odds Ratio** | **Confidence Limits** | | **p-value** |
|
| Age ≥65 vs. <65 | 1.19 | 1.04 | 1.35 | 0.01 |
| Male vs. Female | 1.11 | 0.98 | 1.28 | 0.11 |
| BMI ≥30 vs. <30 | 1.11 | 0.99 | 1.25 | 0.07 |
| Non-Caucasian vs. Caucasian | 1.27 | 1.13 | 1.43 | <0.0001 |
| Diabetic Yes vs. No | 1.04 | 0.90 | 1.21 | 0.57 |
| Smoker Yes vs. No | 1.27 | 1.11 | 1.46 | 0.0008 |
| Functional Status Dependent vs. Independent | 3.22 | 2.28 | 4.56 | <0.0001 |
| CHF Yes vs. No | 2.31 | 1.34 | 4.00 | 0.003 |
| Hypertensive Yes vs. No | 1.15 | 1.01 | 1.30 | 0.03 |
| Dialysis Yes vs. No | 1.76 | 1.01 | 3.05 | 0.04 |
| Wound Infection Yes vs. No | 1.79 | 0.95 | 3.38 | 0.07 |
| Steroids Yes vs. No | 1.66 | 1.27 | 2.18 | 0.0002 |
| Bleeding Disorder Yes vs. No | 1.79 | 1.32 | 2.43 | 0.0002 |
| Pre-Operative Sepsis Yes vs. No | 3.73 | 2.33 | 5.99 | <0.0001 |
| ASA Class ≥ 3 vs. 1-2 | 1.90 | 1.68 | 2.16 | <0.0001 |
| ICD9 Cancer vs. Non-toxic Goiter | 1.27 | 1.12 | 1.44 | 0.0001 |
| ICD9 Benign Neoplasm vs. Non-toxic Goiter | 1.02 | 0.80 | 1.30 | 0.8679 |
| ICD9 Thyrotoxicosis vs. Non-toxic Goiter | 1.13 | 0.96 | 1.34 | 0.15 |
| Outpatient vs. Inpatient | 0.57 | 0.51 | 0.64 | <0.0001 |

\* ASA=American Society of Anesthesiology, BMI= Body Mass Index, CHF = Congestive Heart Failure, HTN=Hypertension, ICD=International classification of diseases

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Predictors\*** | **Odds Ratio** | **Confidence Limits** | | **p-value** |
|
| Age ≥ 75 vs. <75 | 1.51 | 1.25 | 1.81 | <0.00001 |
| Male vs. Female | 1.12 | 0.98 | 1.28 | 0.10 |
| BMI ≥30 vs. <30 | 1.13 | 1.00 | 1.26 | 0.04 |
| Non-Caucasian vs. Caucasian | 1.28 | 1.13 | 1.43 | <0.0001 |
| Diabetic Yes vs. No | 1.05 | 0.91 | 1.22 | 0.48 |
| Smoker Yes vs. No | 1.28 | 1.11 | 1.47 | 0.0005 |
| Functional Status Dependent vs. Independent | 3.07 | 2.17 | 4.35 | <0.0001 |
| CHF Yes vs. No | 2.28 | 1.32 | 3.93 | 0.0032 |
| Hypertensive Yes vs. No | 1.15 | 1.02 | 1.30 | 0.03 |
| Dialysis Yes vs. No | 1.79 | 1.03 | 3.11 | 0.04 |
| Wound Infection Yes vs. No | 1.81 | 0.96 | 3.42 | 0.07 |
| Steroids Yes vs. No | 1.66 | 1.27 | 2.18 | 0.0002 |
| Bleeding Disorder Yes vs. No | 1.78 | 1.31 | 2.41 | 0.0002 |
| Pre-Operative Sepsis Yes vs. No | 3.65 | 2.27 | 5.86 | <0.0001 |
| ASA Class ≥ 3 vs. 1-2 | 1.89 | 1.67 | 2.14 | <0.00001 |
| ICD9 Cancer vs. Non-toxic Goiter | 1.27 | 1.12 | 1.44 | 0.0002 |
| ICD9 Benign Neoplasm vs. Non-toxic Goiter | 1.02 | 0.80 | 1.30 | 0.88 |
| ICD9 Thyrotoxicosis vs. Non-toxic Goiter | 1.13 | 0.96 | 1.34 | 0.15 |
| Outpatient vs. Inpatient | 0.57 | 0.51 | 0.64 | <0.0001 |

Appendix Table 3. Sensitivity analysis of age as a risk factor for post-operative complications (Age ≥75)

\* ASA=American Society of Anesthesiology, BMI= Body Mass Index, CHF = Congestive Heart Failure, HTN=Hypertension, ICD=International classification of diseases