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| **Supplemental Table 1A. Multivariable logistic regression analyses of factors associated with annual change in estimated glomerular filtration rate as calculated by the BouvetCr-CysC equation with ‘Stable’ as the reference group (n=1206) among Youth and Young Adults with Type 1 diabetes.** |
|  | **Overall p-value** | **Declining eGFR (vs Stable)** | **Rising eGFR (vs Stable)** |
| **OR** | **95%CI** | **p-value** | **OR** | **95%CI** | **p-value** |
| **Female sex** | **<0.0001** | 0.1 | 0.1, 0.2 | <0.0001 | 3.6 | 2.1, 6.1 | <0.0001 |
| NH Black race | 0.3 | 0.6 | 0.3, 1.2 | 0.1 | 0.7 | 0.4, 1.5 | 0.4 |
| **Age at diagnosis (years)** | **<0.0001** | 0.8 | 0.7, 0.8 | <0.0001 | 1.4 | 1.3, 1.5 | <0.0001 |
| **Time from baseline visit (years)** | **<0.0001** | 0.8 | 0.7, 0.8 | <0.0001 | 0.7 | 0.6, 0.8 | <0.0001 |
| **Baseline eGFR (ml/min/1.73m2)**  **(per 10 unit increase)**  | **<0.0001** | 2.0 | 1.8, 2.3 | <0.0001 | 0.7 | 0.6, 0.8 | <0.0001 |
| **Glucose change from baseline (mg/dl)** **(per 50 unit increase)** | **<0.0001** | 0.8 | 0.8, 0.9 | <0.0001 | 1.2 | 1.1, 1.3 | <0.0001 |
| **HbA1c (%) (AUC)** | **<0.0001** | 0.8 | 0.7, 0.9 | 0.0003 | 1.8 | 1.5, 2.1 | <0.0001 |
| Body mass index Z-score (AUC) | 0.04 | 1.0 | 0.8, 1.3 | 0.8 | 1.4 | 1.1, 1.8 | 0.01 |
| Systolic Blood pressure Z-score (AUC) | 0.1 | 0.8 | 0.6, 1.0 | 0.05 | 0.9 | 0.7, 1.1 | 0.3 |
| \*Multivariable model also adjusts for clinical site |

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| **Supplemental Table 1B. Multivariable logistic regression analyses of factors associated with annual change in estimated glomerular filtration rate as calculated by the BouvetCr-CysC equation with ‘Stable’ as the reference group (n=160) among Youth and Young Adults with Type 2 diabetes.** |
|  | **Overall p-value** | **Declining eGFR (vs Stable)** | **Rising eGFR (vs Stable)** |
| **OR** | **95%CI** | **p-value** | **OR** | **95%CI** | **p-value** |
| **Female sex** | **0.002** | 0.05 | 0.0, 0.6 | 0.02 | 4.0 | 1.3, 11.9 | 0.01 |
| NH Black race | 0.5 | 3.0 | 0.3, 32.1 | 0.4 | 1.6 | 0.6, 4.8 | 0.4 |
| **Age at diagnosis (years)** | **0.005** | 0.5 | 0.3, 0.8 | 0.009 | 1.2 | 1.0, 1.5 | 0.07 |
| Time from baseline visit (years) | 0.06 | 0.9 | 0.4, 1.7 | 0.7 | 0.7 | 0.5, 0.9 | 0.02 |
| **Baseline eGFR (ml/min/1.73m2)**  **(per 10 unit increase)** | **0.0004** | 3.5 | 1.6, 7.6 | 0.002 | 0.7 | 0.6, 1.0 | 0.02 |
| **Glucose change from baseline (mg/dl)** **(per 50 unit increase)** | **0.0001** | 0.4 | 0.2, 0.8 | 0.01 | 1.5 | 1.2, 2.0 | 0.0007 |
| HbA1c (%) (AUC) | 0.01 | 0.5 | 0.3, 1.1 | 0.07 | 1.3 | 1.0, 1.6 | 0.02 |
| Body mass index Z-score (AUC) | 0.1 | 1.5 | 0.2, 10.8 | 0.7 | 0.5 | 0.2, 1.0 | 0.06 |
| Systolic Blood pressure Z-score (AUC) | 1.0 | 1.0 | 0.4, 2.7 | 0.9 | 1.0 | 0.6, 1.6 | 0.9 |
| \*Multivariable model also adjusts for clinical site |