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| **Supplemental Table 2. Multivariable linear regression of the relationship of prior year vaccine type and BMI on 2018-19 GMFR vaccine response\***  |
| **Variables** | **Beta (SE or 95% CI) \*\*** | **p-value** |
| **A(H1N1)/Michigan** |
| 2017-18 vaccine type (ref=SD) | -0.90 (-1.45, -0.35) | **0.002** |
| BMI | 0.05 (0.02) | **0.03** |
| Baseline log2 HAI titer | -0.26 (0.08) | **0.001** |
| **A(H3N2)/Singapore** |
| 2017-18 vaccine type (ref=SD) | -0.48 (-0.90, -0.06) | **0.03** |
| BMI | -0.00 (0.02)  | 0.78 |
| Baseline log2 HAI titer | -0.19 (0.10) | 0.05 |
| **B/Colorado** |
| 2017-18 vaccine type (ref=SD) | -0.02 (-0.65, 0.51) | 0.93 |
| BMI | 0.00 (0.02) | 0.87 |
| Baseline log2 HAI titer | -0.29 (0.09) | **0.001** |
| **B/Phuket** |
| 2017-18 vaccine type (ref=SD) | -0.03 (-0.41, -0.08) | 0.90 |
| BMI  | 0.04 (0.02) | 0.07 |
| Baseline log2 HAI titer | -0.24 (0.08) | **0.005** |

\*Models adjusted for baseline log2 titers

\*\*Continuous variables include the standard error (SE), categorical variables include the 95% Confidence Interval (CI).