| Model | Covariate | Outcome | Estimate | P-value | Type III P-value |
| --- | --- | --- | --- | --- | --- |
| 1 |  |  |  |  |  |
|  | TCV\_center | Log LV Total Volume | 1.6e-03 | 7.5e-02 |  |
|  | Age\_center | Log LV Total Volume | 2.6e-02 | 3.7e-01 |  |
|  | ASD | Log LV Total Volume | -7.0e-02 | 5.3e-01 | 0.00025 |
|  | FXS | Log LV Total Volume | 3.5e-01 | 1.6e-03 |  |
|  | TCV\_center:ASD | Log LV Total Volume | -8.2e-04 | 4.8e-01 | 0.68584 |
|  | TCV\_center:FXS | Log LV Total Volume | -1.1e-03 | 4.3e-01 |  |
|  | Age\_center:ASD | Log LV Total Volume | 9.1e-03 | 8.2e-01 | 0.36608 |
|  | Age\_center:FXS | Log LV Total Volume | 5.0e-02 | 1.9e-01 |  |
| 2 |  |  |  |  |  |
|  | TCV\_center | LV\_LatIndex | 1.6e-04 | 4.8e-01 |  |
|  | Age\_center | LV\_LatIndex | -1.5e-02 | 3.0e-02 |  |
|  | ASD | LV\_LatIndex | -1.2e-02 | 6.6e-01 | 0.89575 |
|  | FXS | LV\_LatIndex | -9.6e-03 | 7.2e-01 |  |
|  | TCV\_center:ASD | LV\_LatIndex | -4.1e-04 | 1.4e-01 | 0.32860 |
|  | TCV\_center:FXS | LV\_LatIndex | -1.8e-04 | 5.9e-01 |  |
|  | Age\_center:ASD | LV\_LatIndex | 2.6e-02 | 8.1e-03 | 0.01185 |
|  | Age\_center:FXS | LV\_LatIndex | 2.4e-02 | 9.7e-03 |  |
| 3 |  |  |  |  |  |
|  | LV\_tot\_vol\_center | vinelandii\_abcomp\_ss | -5.6e-02 | 4.2e-01 |  |
|  | Age\_center | vinelandii\_abcomp\_ss | 3.3e-01 | 5.5e-01 |  |
|  | ASD | vinelandii\_abcomp\_ss | -3.8e+01 | 3.8e-36 |  |
|  | FXS | vinelandii\_abcomp\_ss | -4.1e+01 | 1.3e-38 |  |
|  | Age\_center:ASD | vinelandii\_abcomp\_ss | -1.6e+00 | 3.3e-02 | 0.06737 |
|  | Age\_center:FXS | vinelandii\_abcomp\_ss | -1.4e+00 | 5.2e-02 |  |
| 4 |  |  |  |  |  |
|  | LV\_tot\_vol\_center | vinelandii\_comm\_ss | -6.4e-03 | 9.4e-01 |  |
|  | Age\_center | vinelandii\_comm\_ss | -2.3e-01 | 7.2e-01 |  |
|  | ASD | vinelandii\_comm\_ss | -3.9e+01 | 1.1e-30 |  |
|  | FXS | vinelandii\_comm\_ss | -4.2e+01 | 1.2e-33 |  |
|  | Age\_center:ASD | vinelandii\_comm\_ss | -1.3e+00 | 1.5e-01 | 0.30564 |
|  | Age\_center:FXS | vinelandii\_comm\_ss | -1.0e+00 | 2.2e-01 |  |
| 5 |  |  |  |  |  |
|  | LV\_tot\_vol\_center | vinelandii\_dls\_ss | -1.3e-01 | 1.2e-01 |  |
|  | Age\_center | vinelandii\_dls\_ss | -1.7e-01 | 8.0e-01 |  |
|  | ASD | vinelandii\_dls\_ss | -3.2e+01 | 7.4e-24 |  |
|  | FXS | vinelandii\_dls\_ss | -3.6e+01 | 3.9e-28 |  |
|  | Age\_center:ASD | vinelandii\_dls\_ss | -5.1e-01 | 5.7e-01 | 0.82423 |
|  | Age\_center:FXS | vinelandii\_dls\_ss | -4.4e-01 | 6.0e-01 |  |
| 6 |  |  |  |  |  |
|  | LV\_tot\_vol\_center | vinelandii\_motor\_ss | -9.9e-02 | 4.0e-01 |  |
|  | Age\_center | vinelandii\_motor\_ss | 2.5e+00 | 7.1e-04 |  |
|  | ASD | vinelandii\_motor\_ss | -2.6e+01 | 2.6e-13 |  |
|  | FXS | vinelandii\_motor\_ss | -2.7e+01 | 1.8e-13 |  |
|  | Age\_center:ASD | vinelandii\_motor\_ss | -1.3e+00 | 2.0e-01 | 0.04209 |
|  | Age\_center:FXS | vinelandii\_motor\_ss | 1.2e+00 | 2.2e-01 |  |
| 7 |  |  |  |  |  |
|  | LV\_tot\_vol\_center | vinelandii\_social\_ss | -5.6e-02 | 4.5e-01 |  |
|  | Age\_center | vinelandii\_social\_ss | 7.1e-01 | 2.3e-01 |  |
|  | ASD | vinelandii\_social\_ss | -4.1e+01 | 1.6e-36 |  |
|  | FXS | vinelandii\_social\_ss | -4.0e+01 | 5.3e-35 |  |
|  | Age\_center:ASD | vinelandii\_social\_ss | -2.1e+00 | 8.5e-03 | 0.00492 |
|  | Age\_center:FXS | vinelandii\_social\_ss | -2.4e+00 | 2.2e-03 |  |
| 8 |  |  |  |  |  |
|  | LV\_tot\_vol\_center | dasii\_sa\_gca\_stand | -7.1e-02 | 6.1e-01 |  |
|  | Age\_center | dasii\_sa\_gca\_stand | 1.7e+00 | 3.9e-01 |  |
|  | ASD | dasii\_sa\_gca\_stand | -4.8e+01 | 2.0e-14 |  |
|  | FXS | dasii\_sa\_gca\_stand | -7.1e+01 | 1.6e-21 |  |
|  | Age\_center:ASD | dasii\_sa\_gca\_stand | -4.1e-01 | 8.7e-01 | 0.30985 |
|  | Age\_center:FXS | dasii\_sa\_gca\_stand | -3.3e+00 | 1.9e-01 |  |
| 9 |  |  |  |  |  |
|  | LV\_tot\_vol\_center | dasii\_sa\_snc\_stand | -2.1e-01 | 1.4e-01 |  |
|  | Age\_center | dasii\_sa\_snc\_stand | 1.4e+00 | 5.4e-01 |  |
|  | ASD | dasii\_sa\_snc\_stand | -4.3e+01 | 4.7e-11 |  |
|  | FXS | dasii\_sa\_snc\_stand | -6.6e+01 | 1.3e-17 |  |
|  | Age\_center:ASD | dasii\_sa\_snc\_stand | -3.9e-01 | 8.8e-01 | 0.57511 |
|  | Age\_center:FXS | dasii\_sa\_snc\_stand | -2.4e+00 | 3.8e-01 |  |