
Subject: Coefficients are large in multilevel analysis

Posted by dga1n@soton.ac.uk on Fri, 15 Feb 2019 10:40:57 GMT

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Dear DHS specialists,

When I have using a multilevel linear regression models to analyse birth weight (continuous), I am getting large coefficients for my results (see below) This can be seen even after applying for weights. Is this fine? or is there any way I can get change this? I checked the multicollinearity and also are fine..

b_interval |

| | | | | | | |
|-------------|----------|----------|------|-------|----------|----------|
| First birth | 0 (base) | | | | | |
| <24 | 115.4945 | 29.0165 | 3.98 | 0.000 | 58.59253 | 172.3965 |
| 24-47 | 137.8109 | 15.69198 | 8.78 | 0.000 | 107.0386 | 168.5832 |
| 48-59 | 122.9485 | 22.0587 | 5.57 | 0.000 | 79.69093 | 166.2061 |
| 60+ | 61.07513 | 14.89308 | 4.10 | 0.000 | 31.86946 | 90.2808 |

wealth index |

| | | | | | | |
|-----------|----------|----------|------|-------|-----------|----------|
| Lowest | 0 (base) | | | | | |
| Secondary | 36.35094 | 19.18614 | 1.89 | 0.058 | -1.273514 | 73.97539 |
| Middle | 42.6571 | 20.92505 | 2.04 | 0.042 | 1.622606 | 83.69159 |
| Fourth | 68.12738 | 21.27426 | 3.20 | 0.001 | 26.40808 | 109.8467 |
| Highest | 103.369 | 25.5519 | 4.05 | 0.000 | 53.26114 | 153.4768 |

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| | | | | | | |
|-----------|-----------|----------|-------|-------|-----------|-----------|
| residence | 0 (base) | | | | | |
| Urban | | | | | | |
| Rural | -11.62815 | 17.74448 | -0.66 | 0.512 | -46.42547 | 23.16918 |
| Estate | -74.43972 | 36.53593 | -2.04 | 0.042 | -146.0875 | -2.791947 |

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Could you kindly please explain this?

Thanks