

| Supplementary Table 3: Serum Lipid Status in Different Provinces of Iran |                                               |                                        |                                        |                              |                                   |                                  |                             |                                |
|--------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|----------------------------------------|------------------------------|-----------------------------------|----------------------------------|-----------------------------|--------------------------------|
| Province                                                                 | Population based on census 2016 (1000 people) | Hypertriglyceridemia Percent. (95% CI) | Hypercholesterolemia Percent. (95% CI) | High LDL-C Percent. (95% CI) | Very High LDL-C Percent. (95% CI) | High non-HDL-C Percent. (95% CI) | Low HDL-C Percent. (95% CI) | Dyslipidemia Percent. (95% CI) |
| Alborz                                                                   | 2712                                          | 37.77<br>(30.34,45.2)                  | 18.09<br>(13.1,23.08)                  | 12.71<br>(8.37,17.06)        | 0.41<br>(-0.17,1)                 | 15.46<br>(10.64,20.27)           | 68.72<br>(62.15,75.29)      | 77.23<br>(70.87,83.58)         |
| Ardabil                                                                  | 1270                                          | 49.98<br>(44.49,55.46)                 | 24.42<br>(19.85,28.99)                 | 16.74<br>(12.98,20.5)        | 1.41<br>(0.2,2.62)                | 24.09<br>(19.43,28.74)           | 74.13<br>(69.43,78.84)      | 84.64<br>(80.72,88.57)         |
| Azerbaijan, East                                                         | 3909                                          | 45.01<br>(39.53,50.49)                 | 22.26<br>(18.39,26.13)                 | 17.26<br>(13.53,20.99)       | 0.93<br>(0.21,1.66)               | 21.68<br>(17.76,25.61)           | 74.4<br>(69.88,78.92)       | 85.32<br>(81.55,89.1)          |
| Azerbaijan, West                                                         | 3265                                          | 47.63<br>(43.05,52.22)                 | 21.35<br>(17.95,24.75)                 | 14.79<br>(11.77,17.8)        | 0.59<br>(-0.09,1.28)              | 19.35<br>(16.1,22.6)             | 71.65<br>(67.56,75.74)      | 83.08<br>(79.66,86.5)          |
| Bushehr                                                                  | 1163                                          | 35.31<br>(31.12,39.51)                 | 18.64<br>(15.4,21.88)                  | 15.63<br>(12.58,18.68)       | 0.84<br>(-0.19,1.87)              | 16.2<br>(13.12,19.29)            | 68.39<br>(64.14,72.64)      | 78.77<br>(74.9,82.63)          |
| Chahar Mahaal and Bakhtiari                                              | 947                                           | 38.34<br>(33.96,42.72)                 | 20.14<br>(16.73,23.55)                 | 15.75<br>(12.7,18.8)         | 1.4<br>(0.18,2.63)                | 19.08<br>(15.73,22.44)           | 69.53<br>(65.36,73.71)      | 80.27<br>(76.68,83.86)         |
| Fars                                                                     | 4851                                          | 35.03<br>(31.54,38.52)                 | 18.17<br>(15.55,20.79)                 | 14.19<br>(11.79,16.59)       | 0.6<br>(0.09,1.1)                 | 16.31<br>(13.79,18.84)           | 68.17<br>(64.68,71.66)      | 79.5<br>(76.39,82.6)           |
| Gilan                                                                    | 2530                                          | 42.47<br>(35.54,49.4)                  | 23.18<br>(17.62,28.74)                 | 17.27<br>(12.27,22.27)       | 0.37<br>(0,0.74)                  | 21.43<br>(16.1,26.76)            | 71.55<br>(65.77,77.33)      | 83.45<br>(78.44,88.47)         |
| Golestan                                                                 | 1868                                          | 30.57<br>(26.93,34.21)                 | 18.74<br>(15.79,21.68)                 | 13.54<br>(10.96,16.11)       | 0.48<br>(0.04,0.92)               | 16.81<br>(13.92,19.69)           | 56.01<br>(52.08,59.95)      | 68.5<br>(64.83,72.17)          |
| Hamadan                                                                  | 1758                                          | 31.58<br>(27.27,35.88)                 | 17.93<br>(14.73,21.12)                 | 13.24<br>(10.37,16.1)        | 0.17<br>(-0.07,0.42)              | 16.51<br>(13.38,19.64)           | 69.62<br>(65.22,74.02)      | 79.01<br>(74.98,83.04)         |
| Hormozgan                                                                | 1776                                          | 27.53<br>(22.47,32.59)                 | 13.41<br>(9.79,17.03)                  | 10.42<br>(7.25,13.59)        | 0.42<br>(-0.16,0.99)              | 12.96<br>(9.35,16.58)            | 73.36<br>(68.57,78.14)      | 78.88<br>(74.42,83.35)         |
| Ilam                                                                     | 580                                           | 39.22<br>(33.67,44.77)                 | 21.24<br>(16.92,25.56)                 | 13.84<br>(10.26,17.42)       | 1.11<br>(0.06,2.16)               | 17.73<br>(13.67,21.79)           | 65.02<br>(59.49,70.54)      | 77.26<br>(72.31,82.21)         |
| Isfahan                                                                  | 5120                                          | 37.27<br>(33.71,40.84)                 | 18.1<br>(15.59,20.6)                   | 12.52<br>(10.4,14.65)        | 0.48<br>(0,0.97)                  | 16.26<br>(13.77,18.75)           | 67.79<br>(64.52,71.06)      | 79.9<br>(77.04,82.76)          |
| Kerman                                                                   | 3164                                          | 28.06<br>(23.26,32.86)                 | 20.74<br>(16.28,25.2)                  | 19.33<br>(14.95,23.71)       | 1.01<br>(0.24,1.79)               | 19.65<br>(15.25,24.06)           | 64.83<br>(59.92,69.74)      | 74.11<br>(69.6,78.62)          |
| Kermanshah                                                               | 2530                                          | 37.42<br>(31.55,43.29)                 | 16.54<br>(10.78,22.29)                 | 11.48<br>(8.09,14.86)        | 0.53<br>(-0.02,1.08)              | 14.22<br>(10.57,17.87)           | 72.15<br>(66.17,78.14)      | 81.03<br>(75.48,86.58)         |
| Khorasan, North                                                          | 863                                           | 35.1<br>(30.98,39.23)                  | 19.58<br>(16.32,22.84)                 | 13.88<br>(11.17,16.59)       | 0.61<br>(0.07,1.14)               | 17.7<br>(14.59,20.81)            | 65.58<br>(61.49,69.66)      | 78.86<br>(75.35,82.38)         |
| Khorasan, Razavi                                                         | 6434                                          | 30.12<br>(27.07,33.17)                 | 19.05<br>(16.57,21.53)                 | 15.35<br>(13.07,17.62)       | 0.32<br>(0.04,0.61)               | 17.33<br>(14.83,19.82)           | 59.7<br>(56.26,63.14)       | 74.31<br>(71.18,77.44)         |
| Khorasan, South                                                          | 768                                           | 26.7<br>(22.66,30.75)                  | 17.12<br>(13.96,20.28)                 | 15.43<br>(12.34,18.51)       | 0.56<br>(-0.02,1.14)              | 16.08<br>(12.97,19.19)           | 65.45<br>(60.81,70.1)       | 75.07<br>(70.69,79.45)         |
| Khuzestan                                                                | 4710                                          | 40.22<br>(35.83,44.6)                  | 17.57<br>(14.49,20.66)                 | 12.79<br>(9.99,15.58)        | 0<br>(0,0)                        | 16.11<br>(13.07,19.15)           | 70.45<br>(66.49,74.41)      | 80.12<br>(76.54,83.7)          |
| Kohgiluyeh and Boyer-Ahmad                                               | 713                                           | 43.71<br>(39.18,48.24)                 | 19.44<br>(15.97,22.9)                  | 15.13<br>(12.1,18.16)        | 0.47<br>(-0.06,0.99)              | 17.89<br>(14.57,21.21)           | 74.37<br>(70.25,78.49)      | 84.47<br>(80.95,87.98)         |
| Kurdistan                                                                | 1603                                          | 41.15<br>(36.94,45.35)                 | 16.52<br>(13.47,19.57)                 | 12.95<br>(10.24,15.65)       | 0.48<br>(0,0.95)                  | 17.26<br>(14.16,20.35)           | 72.81<br>(69.76,62)         | 83.26<br>(80.86,51)            |
| Lorestan                                                                 | 1760                                          | 42.45<br>(38.11,46.78)                 | 22.39<br>(18.77,26.02)                 | 16.43<br>(13.26,19.61)       | 0.82<br>(0.03,1.62)               | 19.05<br>(15.61,22.48)           | 70.86<br>(66.74,74.98)      | 82.05<br>(78.46,85.63)         |
| Markazi                                                                  | 1429                                          | 33.69<br>(28.33,39.06)                 | 16.27<br>(12.8,19.74)                  | 12.02<br>(9.05,14.99)        | 0.35<br>(-0.05,0.74)              | 13.14<br>(10.01,16.27)           | 71.33<br>(66.35,76.31)      | 82.69<br>(78.29,87.09)         |
| Mazandaran                                                               | 3283                                          | 40.12<br>(35.11,45.14)                 | 23.51<br>(19.15,27.87)                 | 16.85<br>(13.02,20.68)       | 1.5<br>(0.46,2.54)                | 23.2<br>(18.76,27.64)            | 59.1<br>(53.91,64.29)       | 76.62<br>(71.89,81.36)         |
| Qazvin                                                                   | 1273                                          | 34.58<br>(29.45,39.72)                 | 18.5<br>(14.29,22.71)                  | 14.55<br>(10.92,18.19)       | 0.12<br>(-0.11,0.35)              | 17.83<br>(13.56,22.11)           | 64.18<br>(58.82,69.53)      | 77.14<br>(72.32,81.96)         |
| Qom                                                                      | 1292                                          | 37.88<br>(31.91,43.85)                 | 17.26<br>(13.48,21.04)                 | 12.02<br>(8.88,15.17)        | 0.18<br>(-0.17,0.53)              | 16.26<br>(12.58,19.95)           | 71.64<br>(66.57,76.71)      | 79.21<br>(74.52,83.9)          |
| Semnan                                                                   | 702                                           | 29.94<br>(25.04,34.83)                 | 13.87<br>(10.49,17.26)                 | 11.98<br>(8.75,15.2)         | 0.74<br>(-0.04,1.51)              | 12.4<br>(9.1,15.7)               | 66.58<br>(61.21,71.95)      | 76.82<br>(71.86,81.78)         |
| Sistan and Baluchistan                                                   | 2775                                          | 27.42<br>(23.48,31.35)                 | 12.08 (9.37,14.8)                      | 12.34<br>(9.6,15.09)         | 0.3<br>(-0.15,0.76)               | 11.99<br>(9.3,14.67)             | 73.18<br>(69.01,77.35)      | 80.85<br>(76.96,84.73)         |
| Tehran                                                                   | 13267                                         | 39.43<br>(34.99,43.88)                 | 18.16<br>(14.84,21.48)                 | 15.78<br>(12.36,19.21)       | 0.79<br>(-0.07,1.65)              | 16.78<br>(13.58,19.98)           | 73.11<br>(69.63,76.59)      | 81.95<br>(78.85,85.05)         |
| Yazd                                                                     | 1138                                          | 45.89<br>(39.28,52.5)                  | 21.48<br>(16.34,26.61)                 | 13.56<br>(9.52,17.59)        | 2.09<br>(0.49,3.69)               | 19.14<br>(14.22,24.06)           | 71.94<br>(66.38,77.5)       | 80.81<br>(75.93,85.68)         |

|        |      |                        |                        |                       |                     |                        |                     |                       |
|--------|------|------------------------|------------------------|-----------------------|---------------------|------------------------|---------------------|-----------------------|
| Zanjan | 1057 | 39.57<br>(35.79,43.34) | 17.39<br>(14.63,20.15) | 13.61<br>(11.12,16.1) | 0.5<br>(-0.02,1.03) | 17.48<br>(14.69,20.27) | 73<br>(69.63,76.37) | 80.9<br>(77.87,83.94) |
|--------|------|------------------------|------------------------|-----------------------|---------------------|------------------------|---------------------|-----------------------|