**Supplementary material：**

**Table 1S The empty model of multilevel logistic regressions to the utilization of essential public health services (N=154,008)**

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| --- | --- | --- | --- |
|  | **Health records** | **Health education** **on** | |
|  | **Prevention of ID** | **Prevention of NCD** | |
| **Fix effect** |  |  |  | |
| Intercepta | -0.874(0.124)\*\*\* | -0.672(0.106)\*\*\* | -0.482 (0.089)\*\*\* | |
| **Random variance** |  |  |  | |
| Residuala | 0.700 (0.090)\*\*\* | 0.597(0.0768)\*\*\* | 0.497(0.064)\*\*\* | |
| -2LL | 803695.9 | 788621.4 | 776107.9 | |
| ICC | 0.178 | 0.153 | 0.131 | |

Notes: a: coefficient and standard errors are shown; ID: infectious diseases; NCD: noncommunicable chronic disease; LL: log likelihood; ICC: intra-class correlation coefficient; Significance level: \*\*\* *p*<0.001.