

Supplementary

Supplement 1: Comparison of LCA models with different latent classes based on model selection statistics. (a cross-sectional study, GATS Vietnam 2015, n=1451)

| Number of latent classes | Maximum likelihood | log- df | G ² | AIC | BIC | ENTROPY |
|--------------------------|---------------------|-----------|----------------|---------------|---------------|-------------|
| 3 | -29308301.60 | 1 | 33276.27 | 33304.27 | 33378.19 | 0.53 |
| 4 | -29291705.44 | -4 | 83.95 | 121.95 | 222.27 | 0.59 |
| 5 | -29291663.49 | -9 | 0.06 | 48.06 | 174.78 | 0.36 |
| 6 | -29291663.49 | -14 | 0.06 | 58.06 | 211.18 | 0.42 |
| 7 | -29291663.49 | -19 | 0.06 | 68.06 | 247.58 | 0.35 |

LCA = latent class analysis; AIC = Akaike information criterion; BIC = Bayesian information criterion

Supplement 2: Class membership probabilities for all LCA models. (a cross-sectional study, GATS Vietnam 2015, n=1451)

| Number of latent classes | Class membership probabilities | | | | | | |
|--------------------------|--------------------------------|-------------|-------------|-------------|------|------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 3 | 0.64 | 0.17 | 0.19 | | | | |
| 4 | 0.40 | 0.08 | 0.26 | 0.26 | | | |
| 5 | 0.30 | 0.18 | 0.22 | 0.11 | 0.19 | | |
| 6 | 0.22 | 0.11 | 0.02 | 0.18 | 0.11 | 0.36 | |
| 7 | 0.25 | 0.03 | 0.12 | 0.13 | 0.19 | 0.19 | 0.09 |

