

Supplementary Table 1. Cigarette-cigarette cross-price elasticity estimates

| Tobacco product | Lebanon | Jordan | Palestine |
|----------------------------|----------|----------|-----------|
| Premium cigarettes | | | |
| Discount cigarettes | 0.166*** | 0.268*** | -0.644*** |
| Roll your cigarettes (50g) | - | - | 0.099 |
| Discount cigarettes | | | |
| Premium cigarettes | 0.069 | 0.109* | -0.389*** |
| Roll your cigarettes (50g) | - | - | 0.395*** |
| Roll your cigarettes (50g) | | | |
| Premium cigarettes | - | - | 0.443*** |
| Discount cigarettes | - | - | 0.071 |

*** p < .01; ** p < .05; * p < 0.10.

Supplementary Table 2. Cigarette-waterpipe cross-price elasticity estimates

| Tobacco product | Lebanon | Jordan | Palestine |
|---------------------------------|-----------|-----------|-----------|
| Premium cigarettes | | | |
| Premium waterpipe tobacco | -0.004 | -0.254*** | -0.064 |
| Discount waterpipe tobacco | -0.113*** | 0.101 | 0.224 |
| Non-flavored waterpipe tobacco | -0.097 | 0.700** | - |
| Waterpipe tobacco home delivery | 0.170** | 0.184 | -0.277 |
| Premium waterpipe café | 0.033 | -0.165 | -0.286** |
| Discount waterpipe café | 0.028 | -0.048 | 0.031 |
| Discount cigarettes | | | |
| Premium waterpipe tobacco | -0.216*** | 0.184* | 0.083 |
| Discount waterpipe tobacco | 0.030 | -0.329** | -0.188 |
| Non-flavored waterpipe tobacco | 0.398*** | -0.002 | - |
| Waterpipe tobacco home delivery | 0.044 | -0.141 | 0.098 |
| Premium waterpipe café | -0.026 | -0.046 | 0.109 |
| Discount waterpipe café | -0.107* | 0.109 | -0.004 |
| Roll-your-own cigarettes | | | |
| Premium waterpipe tobacco | - | - | -0.768*** |
| Discount waterpipe tobacco | - | - | 0.150 |
| Non-flavored waterpipe tobacco | - | - | - |
| Waterpipe tobacco home delivery | - | - | -0.447 |
| Premium waterpipe café | - | - | 0.226 |
| Discount waterpipe café | - | - | -0.085 |

*** $p < .01$; ** $p < .05$; * $p < 0.10$.

Supplementary Table 3. Waterpipe-cigarette cross-price elasticity estimates

| Tobacco product | Lebanon | Jordan | Palestine |
|---------------------------------|----------|----------|-----------|
| Premium waterpipe tobacco | | | |
| Premium cigarettes | -0.002 | -0.038 | 0.292*** |
| Discount cigarettes | -0.081** | 0.181*** | 0.751*** |
| Roll-your-own cigarettes | - | - | 0.452*** |
| Discount waterpipe tobacco | | | |
| Premium cigarettes | 0.074 | 0.074 | -0.067 |
| Discount cigarettes | 0.012 | -0.060 | -0.121 |
| Roll-your-own cigarettes | - | - | 0.141 |
| Non-flavored waterpipe tobacco | | | |
| Premium cigarettes | 0.004 | -0.064 | - |
| Discount cigarettes | 0.015 | 0.059 | - |
| Roll-your-own cigarettes | - | - | - |
| Waterpipe tobacco home delivery | | | |
| Premium cigarettes | 0.016 | -0.008 | 0.032 |
| Discount cigarettes | 0.050* | -0.027 | -0.127 |
| Roll-your-own cigarettes | - | - | -0.089 |
| Premium waterpipe café | | | |
| Premium cigarettes | 0.020 | -0.006 | -0.071 |
| Discount cigarettes | -0.054* | 0.012 | 0.090 |
| Roll-your-own cigarettes | - | - | -0.427** |
| Discount waterpipe café | | | |
| Premium cigarettes | 0.077 | 0.046 | 0.039 |
| Discount cigarettes | -0.027 | -0.084** | -0.225** |
| Roll-your-own cigarettes | - | - | 0.155 |

*** p < .01; ** p < .05; * p < 0.10.

Supplementary Table 4. Waterpipe-waterpipe cross-price elasticity estimates

| Tobacco product | Lebanon | Jordan | Palestine |
|---------------------------------|-----------|----------|-----------|
| Premium waterpipe tobacco | | | |
| Discount waterpipe tobacco | 0.500*** | 0.504*** | 0.335 |
| Non-flavored waterpipe tobacco | -0.406*** | -0.125 | - |
| Waterpipe tobacco home delivery | 0.229*** | 0.403 | 0.476* |
| Premium waterpipe café | -0.063 | -0.177 | 0.042 |
| Discount waterpipe café | 0.048 | 0.098 | 0.117 |
| Discount waterpipe tobacco | | | |
| Premium waterpipe tobacco | 0.209*** | 0.018 | -0.237* |
| Non-flavored waterpipe tobacco | -0.096 | -0.136 | - |
| Waterpipe tobacco home delivery | -0.023 | 0.185 | -0.304 |
| Premium waterpipe café | 0.027 | 0.072 | 0.143 |
| Discount waterpipe café | 0.065 | 0.097 | 0.098 |
| Non-flavored waterpipe tobacco | | | |
| Premium waterpipe tobacco | -0.074* | 0.184* | - |
| Discount waterpipe tobacco | -0.008 | -0.009 | - |
| Waterpipe tobacco home delivery | 0.197*** | 0.215 | - |
| Premium waterpipe café | -0.022 | 0.245 | - |
| Discount waterpipe café | -0.063 | -0.134 | - |
| Waterpipe tobacco home delivery | | | |
| Premium waterpipe tobacco | -0.213*** | -0.033 | 0.043 |
| Discount waterpipe tobacco | 0.137*** | 0.126 | -0.242 |
| Non-flavored waterpipe tobacco | 0.377*** | -0.022 | - |
| Premium waterpipe café | -0.043 | -0.240 | 0.410*** |
| Discount waterpipe café | -0.045 | 0.036 | 0.243** |
| Premium waterpipe café | | | |
| Premium waterpipe tobacco | 0.081** | 0.112 | 0.335** |
| Discount waterpipe tobacco | -0.012 | -0.225* | 0.485 |
| Non-flavored waterpipe tobacco | 0.010 | 0.188 | - |
| Waterpipe tobacco home delivery | -0.288*** | 0.079 | 0.763** |
| Discount waterpipe café | 0.226*** | 0.171 | -0.177 |
| Discount waterpipe café | | | |
| Premium waterpipe tobacco | 0.162*** | -0.073 | -0.207 |
| Discount waterpipe tobacco | -0.241*** | 0.079 | -0.236 |
| Non-flavored waterpipe tobacco | -0.064 | -0.345 | - |
| Waterpipe tobacco home delivery | 0.049 | -0.384 | -0.097 |
| Premium waterpipe café | 0.157*** | 0.161 | -0.321** |

*** p < .01; ** p < .05; * p < 0.10.