Method of Extrapolation from the study provinces and calculation of the national population size of MSM:

Step 1: Calculate population of MSM 15 to 49 years old in the reference province that produced reliable estimates, weighted by the proportion of Jack'd users in each age group:

$$\begin{split} P_{ry[15\text{-}49]} = p_{ry[18\text{-}49]} * & (n_{ry[15\text{-}19]} * q_{18\text{-}19} + n_{ry[20\text{-}24]} * q_{20\text{-}24} + n_{ry[25\text{-}29]} * q_{25\text{-}20} + n_{ry[30\text{-}34]} * q_{30\text{-}34} + n_{ry[35\text{-}39]} * q_{35\text{-}39} + n_{ry[40\text{-}44]} * q_{40\text{-}44} + n_{ry[45\text{-}49]} * q_{45\text{-}49}) * 7 \ / \ n_{ry[18\text{-}49]} \end{split}$$

Where  $p_{ry[18-49]}$  is the estimated size of MSM population (18-49) in the reference province y obtained by the multiplier method in this study,  $q_{i-j}$  is the percentage of national Jack'd users in each age group i-j, and  $n_{r i-j}$  is the total male population in each age group i-j of the reference province y.

Note: The Viet Nam general population data is available in 5-year increments, including the 15-19 age group. Due to the limitation of working with males 18 and older in this study, to calculate the needed 18-19 age group in the population an assumption was made that  $n_{ry[18-19]} = n_{ry[15-19]}*2/5$ 

Step 2: Extrapolate the MSM population (15-49) from the reference province to another province x in the reference region:

$$p'_{x[15-49]} = P_{ry[15-49]} * (n_{x[15-19]} * q_{18-19} + n_{x[20-24]} * q_{20-24} + n_{x[25-29]} * q_{25-20} + n_{x[30-34]} * q_{30-34} + n_{x[35-39]} * q_{35-39} + n_{x[40-44]} * q_{40-44} + n_{x[45-49]} * q_{45-49}) * 7 / n_{ry[15-49]}$$

Where  $n_{x[i-j]}$  is the total male population in each age group i-j of the extrapolated province x. Step 2 is repeated for each province linked to a reference province listed under the "Extrapolated from Province" in the Table below.

Step 3: Calculate national population size of MSM 15-49:

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p_{\text{MSM15-49}} = p'_{1} [_{15-49}] + p'_{2} [_{15-49}] + \ldots + p'_{50} [_{15-49}] + p_{r1} [_{15-49}] + p_{r2} [_{15-49}] + \ldots + p_{r11} [_{15-49}] + p_{\text{hcmc}} + p_{na}
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Where  $p'_{x [15-49]}$  are the MSM population (15-49) in the 50 provinces where estimates were extrapolated to,  $p_{ry [15-49]}$  are the MSM population (15-49) in the 11 reference provinces where reliable estimates were directly obtained in this study, and  $p_{hcmc}$  and  $p_{na}$  are the MSM population (15-49) in Ho Chi Minh City and Nghe An province respectively which were previously estimated during a piloting of this method in 2016.

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