

Multicollinearity diagnostics for adjusted logistic regression for dichotomised self-rated health regressed against fitted variables.

| VIF, r | Bedbug infestation | | | Physical appearance | | | Spending money on medication or doctor consultation | | | No. bites in past month | | | Time of bites | | Age | | | Education level | | Monthly household income | | | |
|---|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---|--------------------|--------------------|-------------------------|--------------------|--------------------|-------------------|------------------|-------------------|--------------------|--------------------|----------------------------------|------------------------|--------------------------|--------------------|---------------------|---------------------|
| | Someti mes | Often | Very often | Slight | Moderate | Severe | Slight | Moderate | Severe | 1-4 | 5-10 | >10 | Irregularly | Female | 0-24 | 25-44 | 45-64 | Primary education or below | Secondary education | <HKD1 0,000 | HKD1000- 30,000 | HKD30001- 50,000 | HKD50001- 80,000 |
| Bedbug infestation | Someti mes | 1.2, -0.163*** | 1.24, -0.169*** | 1.58, 0.115* | 1.58, 0.013 | 1.58, -0.128** | 1.57, 0.12* | 1.53, 0.084 | 1.58, -0.165*** | 1.57, 0.109* | 1.58, 0.027 | 1.57, -0.103* | 1.57, 0.021 | 1.57, -0.065 | 1.57, -0.009 | 1.57, 0.096* | 1.54, -0.068 | 1.58, 0.013 | 1.58, 0.035 | 1.58, -0.05 | 1.58, 0.035 | 1.58, -0.004 | 1.58, -0.016 |
| | Often | 1.51, -0.163*** | 1.33, -0.17*** | 1.99, -0.026 | 1.98, 0.117* | 1.99, 0.066 | 1.97, 0.069 | 1.9, 0.078 | 1.92, 0.086 | 1.97, -0.116* | 1.92, 0.229*** | 1.93, 0.043 | 1.95, 0.038 | 1.98, -0.023 | 1.93, -0.037 | 1.91, -0.007 | 1.86, -0.146*** | 1.96, 0.14*** | 1.99, 0.001 | 1.95, 0.188*** | 1.96, 0.037 | 1.97, -0.062 | 1.99, -0.085* |
| | Very often | 1.9, -0.169*** | 1.62, -0.17*** | 2.42, -0.023 | 2.41, 0.134** | 2.4, 0.296*** | 2.42, -0.183*** | 2.33, 0.169*** | 2.31, 0.357*** | 2.35, -0.107* | 2.36, -0.086 | 2.18, 0.426*** | 2.39, 0.026 | 2.42, 0.046 | 2.38, -0.112** | 2.38, -0.032 | 2.38, 0.004 | 2.42, 0.244*** | 2.42, 0.045 | 2.41, 0.094* | 2.4, 0.173*** | 2.41, -0.078* | 2.42, -0.149*** |
| Physical appearance | Slight | 2, 0.115* | 2.01, -0.026 | 2.01, -0.023 | 1.31, -0.319*** | 1.52, -0.214*** | 1.82, 0.3*** | 1.83, -0.01 | 1.82, -0.008 | 1.94, 0.114* | 1.89, 0.072 | 1.89, 0.058 | 2, 0.132** | 1.96, 0.119* | 1.99, 0.03 | 1.99, 0.05 | 1.99, -0.032 | 2.01, -0.017 | 2, -0.033 | 1.98, -0.018 | 1.98, -0.009 | 1.97, 0.123* | 2, -0.012 |
| | Moderate | 2.22, 0.013 | 2.22, 0.117* | 2.22, 0.134** | 1.46, -0.319*** | 1.61, -0.205*** | 2.12, -0.049 | 1.8, 0.415*** | 2.01, -0.014 | 2.19, -0.067 | 2.11, 0.09 | 2.1, 0.188*** | 2.23, 0.064 | 2.21, 0.056 | 2.19, -0.004 | 2.2, 0.049 | 2.21, -0.063 | 2.23, 0.011 | 2.22, -0.014 | 2.2, 0.103* | 2.22, 0.028 | 2.23, -0.062 | 2.23, -0.06 |
| | Severe | 2.1, -0.128** | 2.1, 0.066 | 2.08, 0.296*** | 1.59, -0.214*** | 1.52, -0.205*** | 2.04, -0.118* | 1.95, -0.027 | 1.63, 0.502*** | 2.08, -0.114* | 2.03, 0.05 | 2.02, 0.233*** | 2.1, 0.034 | 2.1, -0.11* | 2.08, -0.021 | 2.09, -0.011 | 2.1, -0.103* | 2.1, 0.172*** | 2.1, -0.015 | 2.09, 0.051 | 2.09, 0.096* | 2.09, -0.049 | 2.1, -0.084 |
| Spending money on medication or doctor consultation | Slight | 1.86, 0.12* | 1.86, 0.069 | 1.87, -0.183*** | 1.7, 0.3*** | 1.78, -0.049 | 1.82, -0.118* | 1.34, -0.299*** | 1.5, -0.217*** | 1.7, 0.193*** | 1.75, 0.073 | 1.75, 0.009 | 1.87, 0.094 | 1.87, 0.001 | 1.87, -0.022 | 1.88, 0.069 | 1.87, -0.041 | 1.87, 0.015 | 1.88, -0.017 | 1.88, 0.031 | 1.88, -0.04 | 1.87, 0.043 | 1.87, 0.046 |
| | Moderate | 2.17, 0.084 | 2.15, 0.078 | 2.16, 0.169*** | 2.05, -0.01 | 1.82, 0.415*** | 2.09, -0.027 | 1.61, -0.299*** | 1.59, -0.224*** | 2.22, -0.069 | 2.21, 0.091 | 2.2, 0.168*** | 2.21, 0.147** | 2.25, 0.037 | 2.25, -0.086 | 2.25, 0.082 | 2.25, -0.035 | 2.25, -0.013 | 2.25, -0.002 | 2.24, 0.052 | 2.24, 0.02 | 2.25, -0.016 | 2.25, -0.072 |
| | Severe | 2.3, -0.165*** | 2.23, 0.086 | 2.2, 0.357*** | 2.09, -0.008 | 2.09, -0.014 | 1.79, 0.502*** | 1.85, -0.217*** | 1.63, -0.224*** | 2.29, -0.115* | 2.28, 0.051 | 2.28, 0.249*** | 2.31, 0.024 | 2.29, -0.103* | 2.3, -0.054 | 2.31, -0.072 | 2.31, -0.055 | 2.29, 0.233*** | 2.31, -0.02 | 2.3, 0.057 | 2.31, 0.098* | 2.31, -0.046 | 2.31, -0.092 |
| No. bites in past month | 1-4 | 2.16, 0.109* | 2.16, -0.116* | 2.11, -0.107* | 2.1, 0.114* | 2.13, -0.067 | 2.15, -0.114* | 1.98, 0.193*** | 2.15, -0.069 | 2.16, -0.115* | 1.36, -0.286*** | 1.28, -0.397*** | 2.15, 0.02 | 2.17, -0.061 | 2.17, 0.072 | 2.18, 0.044 | 2.18, 0.1* | 2.17, -0.229*** | 2.18, 0.033 | 2.17, -0.106* | 2.17, 0 | 2.18, 0.049 | 2.17, 0.089 |
| | 5-10 | 2.5, 0.027 | 2.42, 0.229*** | 2.44, -0.086 | 2.36, 0.072 | 2.38, 0.09 | 2.42, 0.05 | 2.34, 0.073 | 2.46, 0.091 | 2.48, 0.051 | 1.57, -0.286*** | 1.33, -0.35*** | 2.45, 0.136** | 2.51, -0.032 | 2.49, -0.006 | 2.48, 0.027 | 2.42, -0.155** | 2.5, -0.04 | 2.51, 0.024 | 2.49, -0.053 | 2.51, 0.075 | 2.5, -0.01 | 2.5, -0.074 |
| | >10 | 3.39, -0.103* | 3.31, 0.043 | 3.07, 0.426*** | 3.21, 0.058 | 3.21, 0.188*** | 3.28, 0.233*** | 3.18, 0.009 | 3.34, 0.168*** | 3.37, 0.249*** | 2, -0.397*** | 1.81, -0.35*** | 3.36, 0.09 | 3.41, 0.059 | 3.41, -0.071 | 3.4, 0.023 | 3.41, -0.151** | 3.36, 0.353*** | 3.41, -0.065 | 3.41, 0.232*** | 3.4, 0.046 | 3.41, -0.074 | 3.41, -0.121* |
| Time of bites | Irregularly | 1.18, 0.021 | 1.16, 0.038 | 1.17, 0.026 | 1.18, 0.132** | 1.18, 0.064 | 1.18, 0.034 | 1.17, 0.094 | 1.18, 0.147** | 1.17, 0.024 | 1.16, 0.136** | 1.17, 0.09 | 1.16, -0.122* | 1.18, -0.002 | 1.17, -0.047 | 1.17, -0.097* | 1.18, 0.098* | 1.18, 0.022 | 1.17, 0.133** | 1.17, 0.056 | 1.18, -0.041 | 1.18, -0.103* | |
| | Female | 1.12, -0.065 | 1.13, -0.023 | 1.13, 0.046 | 1.1, 0.119* | 1.12, 0.056 | 1.13, -0.11* | 1.13, 0.001 | 1.13, 0.037 | 1.12, -0.103* | 1.13, -0.061 | 1.13, -0.032 | 1.11, -0.122* | 1.13, 0.059 | 1.13, -0.002 | 1.13, 0.054 | 1.13, -0.055 | 1.12, -0.002 | 1.13, -0.013 | 1.12, -0.073 | 1.13, 0.035 | 1.13, -0.017 | 1.13, -0.03 |
| Age | 0-24 | 2.9, -0.009 | 2.83, -0.037 | 2.87, -0.112** | 2.89, 0.03 | 2.87, -0.004 | 2.9, -0.021 | 2.91, -0.022 | 2.9, -0.086 | 2.91, -0.054 | 2.91, 0.072 | 2.89, -0.006 | 2.92, -0.071 | 2.91, -0.002 | 2.92, 0.054 | 1.33, -0.331*** | 1.36, -0.349*** | 2.25, -0.158*** | 2.87, -0.114** | 2.9, -0.115** | 2.92, 0.043 | 2.88, 0.096* | 2.91, -0.03 |
| | 25-44 | 3.56, 0.096* | 3.45, -0.007 | 3.52, -0.032 | 3.55, 0.05 | 3.54, 0.049 | 3.57, -0.011 | 3.58, 0.069 | 3.58, 0.082 | 3.58, -0.072 | 3.58, 0.044 | 3.55, 0.027 | 3.57, 0.023 | 3.53, -0.047 | 3.57, -0.055 | 1.64, -0.331*** | 1.32, -0.441*** | 2.65, -0.202*** | 3.58, 0.039 | 3.53, -0.157*** | 3.58, 0.037 | 3.57, 0.062 | 3.58, 0.074 |
| | 45-64 | 3.73, -0.068 | 3.6, -0.146*** | 3.77, 0.004 | 3.81, -0.032 | 3.8, -0.063 | 3.83, -0.103* | 3.83, -0.041 | 3.83, -0.035 | 3.84, -0.055 | 3.84, 0.1* | 3.71, -0.155** | 3.83, -0.151** | 3.8, -0.097* | 3.83, -0.002 | 1.78, -0.349*** | 1.41, -0.441*** | 3.02, -0.173*** | 3.83, 0.108** | 3.72, -0.164*** | 3.83, -0.017 | 3.84, 0 | 3.84, 0.116** |
| Education level | Primary | 2.73, 0.013 | 2.7, 0.14*** | 2.73, 0.244*** | 2.73, -0.017 | 2.73, 0.011 | 2.73, 0.172*** | 2.72, 0.015 | 2.73, -0.013 | 2.7, 0.233*** | 2.72, -0.229*** | 2.72, -0.04 | 2.69, 0.353*** | 2.72, 0.098* | 2.7, -0.013 | 2.1, -0.158*** | 2.02, -0.202*** | 2.15, -0.173*** | 2.48, -0.236*** | 2.66, 0.455*** | 2.73, -0.057 | 2.72, -0.187*** | 2.72, -0.142*** |

| | educati on or below | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--------------------------------|-----------------|-------------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-------------------|------------------|-----------------|-------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | Second ary educati on | 1.33, 0.035 | 1.34, 0.001 | 1.33, 0.045 | 1.33, -0.033 | 1.33, -0.014 | 1.33, -0.015 | 1.34, -0.017 | 1.34, -0.002 | 1.34, -0.02 | 1.33, 0.033 | 1.34, 0.024 | 1.34, -0.065 | 1.34, 0.022 | 1.33, -0.073 | 1.31, -0.114** | 1.34, 0.039 | 1.33, 0.108** | 1.21, -0.236*** | | 1.25, 0.032 | 1.25, 0.224*** | 1.3, -0.075 | 1.32, -0.132*** |
| Monthly <HKD1 househol d income | 0,000 | 4.22, -0.05 | 4.15, 0.188*** | 4.22, 0.094* | 4.17, -0.018 | 4.18, 0.103* | 4.2, 0.051 | 4.23, 0.031 | 4.22, 0.052 | 4.22, 0.057 | 4.22, -0.106* | 4.2, -0.053 | 4.22, 0.232*** | 4.17, 0.133** | 4.17, 0.035 | 4.2, -0.115** | 4.17, -0.157*** | 4.1, -0.164*** | 4.12, 0.455*** | 3.97, 0.032 | | 1.7, -0.33*** | 2.27, -0.231*** | 2.59, -0.175*** |
| | HKD10 ,000- 30,000 | 5.43, 0.035 | 5.37, 0.037 | 5.38, 0.173*** | 5.37, -0.009 | 5.41, 0.028 | 5.41, 0.096* | 5.43, -0.04 | 5.42, 0.02 | 5.43, 0.098* | 5.42, 0 | 5.43, 0.075 | 5.41, 0.046 | 5.39, 0.056 | 5.42, -0.017 | 5.43, 0.043 | 5.43, 0.037 | 5.42, -0.017 | 5.43, -0.057 | 5.07, 0.224*** | 2.18, -0.33*** | | 1.73, -0.437*** | 2.36, -0.331*** |
| | HKD30 ,001- 50,000 | 3.8, -0.004 | 3.76, -0.062 | 3.77, -0.078* | 3.73, 0.123* | 3.79, -0.062 | 3.78, -0.049 | 3.79, 0.043 | 3.79, -0.016 | 3.8, -0.046 | 3.8, 0.049 | 3.79, -0.01 | 3.79, -0.074 | 3.78, -0.041 | 3.79, -0.03 | 3.75, 0.096* | 3.79, 0.062 | 3.8, 0 | 3.79, -0.187*** | 3.7, -0.075 | 2.03, -0.231*** | 1.21, -0.437*** | | 1.82, -0.232*** |
| | HKD50 ,001- 80,000 | 2.77, -0.016 | 2.78, -0.085* | 2.78, -0.149*** | 2.76, -0.012 | 2.78, -0.06 | 2.78, -0.084 | 2.77, 0.046 | 2.78, -0.072 | 2.78, -0.092 | 2.78, 0.089 | 2.78, -0.074 | 2.78, -0.121* | 2.78, -0.103* | 2.77, 0.044 | 2.78, -0.03 | 2.78, 0.074 | 2.78, 0.116** | 2.77, -0.142*** | 2.76, -0.132*** | 1.7, -0.175*** | 1.21, -0.331*** | 1.33, -0.232*** | |

Note: ***p<0.001; **p<0.01; *p>0.05

Multicollinearity diagnostics for adjusted logistic regression for dichotomised average hours of sleep per day regressed against fitted variables.

| VIF, r | | Mental and emotional health | | | Physical reaction to bites | | | Age | | | Education level | | Monthly household income | | |
|-----------------------------------|---|-----------------------------|--------------------|--------------------|---|-----------------|--------------------|--------------------|--------------------|----------------------------------|------------------------|--------------------|--------------------------|----------------------|----------------------|
| | | Slight | Moderate | Severe | Difficulties sleeping or restlessness | Female | 0-24 | 25-44 | 45-64 | Primary education or below | Secondary education | <HKD10,000 | HKD10,000- 30,000 | HKD30,001- 50,000 | HKD50,001- 80,000 |
| Mental and emotional health | Slight | | 1.17, -0.3*** | 1.14, -0.291*** | 1.44, -0.185*** | 1.45, -0.057 | 1.45, -0.008 | 1.45, 0.06 | 1.45, 0.041 | 1.44, -0.093 | 1.45, 0.134** | 1.45, -0.146** | 1.43, 0.076 | 1.43, 0.06 | 1.45, -0.011 |
| | Moderate | 1.4, -0.3*** | | 1.2, -0.358*** | 1.57, 0.166*** | 1.75, 0.044 | 1.74, 0.025 | 1.73, -0.048 | 1.74, -0.017 | 1.74, 0.13** | 1.74, -0.159** | 1.71, 0.226*** | 1.72, -0.204*** | 1.72, 0.009 | 1.72, 0.069 |
| | Severe | 1.62, -0.291*** | 1.42, -0.358*** | | 1.7, 0.391*** | 2.06, -0.016 | 2.05, -0.072 | 2.06, 0.057 | 2.04, -0.161*** | 2.04, 0.136** | 2.06, -0.011 | 2.05, -0.005 | 1.98, 0.237*** | 2, -0.066 | 2.04, -0.168*** |
| Physical reaction to bites | Difficulties sleeping or restlessness | 1.49, -0.185*** | 1.36, 0.166*** | 1.25, 0.391*** | | 1.51, -0.025 | 1.5, -0.067 | 1.49, -0.107* | 1.51, -0.11* | 1.51, 0.299*** | 1.5, -0.123* | 1.49, 0.242*** | 1.5, 0.088 | 1.51, -0.108* | 1.51, -0.193*** |
| | Female | 1.04, -0.057 | 1.04, 0.044 | 1.04, -0.016 | 1.04, -0.025 | | 1.04, 0.054 | 1.04, -0.055 | 1.04, -0.002 | 1.03, -0.013 | 1.03, -0.073 | 1.02, 0.035 | 1.03, -0.017 | 1.04, -0.03 | 1.04, 0.044 |
| Age | 0-24 | 2.7, -0.008 | 2.69, 0.025 | 2.68, -0.072 | 2.68, -0.067 | 2.69, 0.054 | | 1.3, -0.331*** | 1.3, -0.349*** | 2.07, -0.158*** | 2.64, -0.114** | 2.68, -0.115** | 2.69, 0.043 | 2.65, 0.096* | 2.69, -0.03 |
| | 25-44 | 3.24, 0.06 | 3.23, -0.048 | 3.25, 0.057 | 3.21, -0.107* | 3.25, -0.055 | 1.56, -0.331*** | | 1.27, -0.441*** | 2.42, -0.202*** | 3.25, 0.039 | 3.2, -0.157*** | 3.25, 0.037 | 3.23, 0.062 | 3.24, 0.074 |
| | 45-64 | 3.32, 0.041 | 3.32, -0.017 | 3.29, -0.161*** | 3.31, -0.11* | 3.32, -0.002 | 1.6, -0.349*** | 1.3, -0.441*** | | 2.62, -0.173*** | 3.32, 0.108** | 3.2, -0.164*** | 3.31, -0.017 | 3.32, 0 | 3.32, 0.116** |
| Education level | Primary education or below | 2.41, -0.093 | 2.41, 0.13** | 2.41, 0.136** | 2.42, 0.299*** | 2.41, -0.013 | 1.87, -0.158*** | 1.81, -0.202*** | 1.92, -0.173*** | | 2.21, -0.236*** | 2.35, 0.455*** | 2.43, -0.057 | 2.42, -0.187*** | 2.42, -0.142*** |
| | Secondary education | 1.35, 0.134** | 1.35, -0.159** | 1.36, -0.011 | 1.35, -0.123* | 1.35, -0.073 | 1.33, -0.114** | 1.36, 0.039 | 1.36, 0.108** | 1.24, -0.236*** | | 1.26, 0.032 | 1.26, 0.224*** | 1.32, -0.075 | 1.34, -0.132*** |
| Monthly household income | <HKD10,000 | 3.96, -0.146** | 3.87, 0.226*** | 3.94, -0.005 | 3.91, 0.242*** | 3.89, 0.035 | 3.93, -0.115** | 3.9, -0.157*** | 3.82, -0.164*** | 3.84, 0.455*** | 3.68, 0.032 | | 1.71, -0.33*** | 2.21, -0.231*** | 2.47, -0.175*** |
| | HKD10,000- 30,000 | 5.15, 0.076 | 5.16, -0.204*** | 5.02, 0.237*** | 5.19, 0.088 | 5.2, -0.017 | 5.21, 0.043 | 5.23, 0.037 | 5.21, -0.017 | 5.22, -0.057 | 4.84, 0.224*** | 2.26, -0.33*** | | 1.72, -0.437*** | 2.34, -0.331*** |
| | HKD30,001- 50,000 | 3.58, 0.06 | 3.57, 0.009 | 3.53, -0.066 | 3.62, -0.108* | 3.62, -0.03 | 3.57, 0.096* | 3.61, 0.062 | 3.62, 0 | 3.62, -0.187*** | 3.53, -0.075 | 2.02, -0.231*** | 1.2, -0.437*** | | 1.77, -0.232*** |
| | HKD50,001- 80,000 | 2.69, -0.011 | 2.66, 0.069 | 2.67, -0.168*** | 2.7, -0.193*** | 2.69, 0.044 | 2.69, -0.03 | 2.69, 0.074 | 2.7, 0.116** | 2.69, -0.142*** | 2.68, -0.132*** | 1.69, -0.175*** | 1.21, -0.331*** | 1.32, -0.232*** | |

Note: ***p<0.001; **p<0.01; *p>0.05