Supplementary Material

The supplementary material for the present manuscript includes two tables. Table S1 includes a full account of the candidate predictors entered into the component-wise gradient boosting algorithm. Table S2 describes the results from the first pass through the algorithm. These retained 35 predictors were then entered into a second pass through the algorithm with a more intense penalty to maximize parsimony.
| Daily Question                      | Variable Level          | Not Endorsed | Endorsed | Endorsement Percentage | Endorsed by UH | Endorsed by LH | Endorsed by SH |
|------------------------------------|-------------------------|--------------|----------|------------------------|----------------|----------------|---------------|
| Discriminated Against             | Yes (vs. No)            | 657          | 67       | 9.25%                  | 33             | 31             | 3             |
| Discrimination - Reason            | Age                     | 698          | 26       | 3.59%                  | 15             | 11             | 0             |
| Discrimination - Reason            | Gender                  | 707          | 17       | 2.35%                  | 7              | 10             | 0             |
| Discrimination - Reason            | Race                    | 697          | 27       | 3.73%                  | 6              | 21             | 0             |
| Discrimination - Reason            | Ethnicity               | 711          | 13       | 1.80%                  | 4              | 9              | 0             |
| Discrimination - Reason            | Religion                | 710          | 14       | 1.93%                  | 3              | 10             | 1             |
| Discrimination - Reason            | Height or Weight        | 711          | 13       | 1.80%                  | 4              | 9              | 0             |
| Discrimination - Reason            | Other Aspect of Appearance | 712         | 12       | 1.66%                  | 3              | 9              | 0             |
| Discrimination - Reason            | Physical Disability     | 718          | 6        | 0.83%                  | 3              | 3              | 0             |
| Discrimination - Reason            | Sexual Orientation      | 715          | 9        | 1.24%                  | 0              | 8              | 1             |
| Discrimination - Reason            | Being A Smoker          | 715          | 9        | 1.24%                  | 4              | 5              | 0             |
| Discrimination - Reason            | Being Homeless          | 697          | 27       | 3.73%                  | 4              | 21             | 2             |
| Discrimination - Reason            | Being Poor              | 700          | 24       | 3.31%                  | 4              | 21             | 2             |
| Discrimination - Reason            | Nonspecified Other      | 716          | 8        | 1.10%                  | 4              | 3              | 1             |
| Discrimination - Source            | Boyfriend / Girlfriend  | 715          | 9        | 1.24%                  | 6              | 3              | 0             |
| Discrimination - Source            | Family Member           | 707          | 17       | 2.35%                  | 13             | 4              | 0             |
| Discrimination - Source            | Friend                  | 709          | 15       | 2.07%                  | 3              | 12             | 0             |
| Discrimination - Source            | Nonspecified Other      | 692          | 32       | 4.42%                  | 7              | 24             | 1             |
| Assault - Type                     | Physical (Hit, Slapped, Punched, Kicked) | 618          | 106      | 14.64%                 | 67             | 30             | 9             |
| Assault - Type                     | Robbed                  | 697          | 27       | 3.73%                  | 17             | 7              | 3             |
| Assault - Type                     | Verbally Abused         | 677          | 47       | 6.49%                  | 12             | 30             | 5             |
| Assault - Type                     | Held Against Will      | 718          | 6        | 0.83%                  | 2              | 3              | 1             |
| Assault - Source                   | Boyfriend / Girlfriend  | 687          | 37       | 5.11%                  | 21             | 13             | 3             |
| Assault - Source                   | Friend / Stranger / Aquaintance | 687       | 37       | 5.11%                  | 18             | 14             | 5             |
| Assault - Source                   | Family Member           | 705          | 19       | 2.62%                  | 9              | 10             | 0             |
| Category                          | Response              | Count | Percentage | Yes | No | Other |
|----------------------------------|-----------------------|-------|------------|-----|----|-------|
| Assault - Source                 | Nonspecified Other    | 675   | 6.77%      | 28  | 20 | 1     |
| Police - Interacted With         | Yes (vs. No)          | 666   | 8.01%      | 35  | 20 | 3     |
| Police - Arrested By             | Yes (vs. No)          | 705   | 2.62%      | 14  | 4  | 1     |
| Sex - Had Sex Yesterday          | Yes (vs. No)          | 589   | 18.65%     | 74  | 53 | 8     |
| Sex - Partner                    | Boyfriend / Girlfriend| 631   | 12.85%     | 53  | 34 | 6     |
| Sex - Partner                    | Prostitute            | 718   | 0.83%      | 4   | 1  | 1     |
| Sex - Partner                    | Other                 | 676   | 6.36%      | 27  | 20 | 1     |
| Sex - Type                       | Oral                  | 659   | 8.98%      | 35  | 26 | 4     |
| Sex - Type                       | Vaginal               | 617   | 14.78%     | 61  | 40 | 6     |
| Sex - Type                       | Anal                  | 704   | 2.76%      | 11  | 8  | 1     |
| Sex - Partner Gender             | Male                  | 668   | 7.73%      | 28  | 25 | 3     |
| Sex - Partner Gender             | Female                | 647   | 10.64%     | 45  | 28 | 4     |
| Sex - Partner Gender             | Non-Binary            | 717   | 0.97%      | 4   | 2  | 1     |
| Sex - Planned                    | Yes (vs. No)          | 648   | 10.50%     | 47  | 26 | 3     |
| Sex - Asked Partner To Have      | Yes (vs. Other Options)| 644  | 11.05%     | 47  | 26 | 3     |
| Sex - Asked Partner To Have      | No (vs. Other Options)| 682   | 5.80%      | 13  | 26 | 3     |
| Sex - Asked Partner To Have      | I Don’t Know (vs. Other Options) | 711 | 1.80% | 8 | 4 | 1 |
| Sex - Permission Given           | Yes (vs. Other Options)| 633  | 12.57%     | 49  | 37 | 5     |
| Sex - Permission Given           | No (vs. Other Options)| 687   | 5.11%      | 21  | 14 | 2     |
| Sex - Permission Given           | I Don’t Know (vs. Other Options) | 717 | 0.97% | 4 | 2 | 1 |
| Sex - Condom Used                | Never (vs. Other Options) | 663  | 8.43%      | 34  | 24 | 3     |
| Sex - Condom Used                | Sometimes (vs. Other Options) | 684  | 5.52%     | 25  | 14 | 1     |
| Sex - Condom Used                | Always (vs. Other Options) | 690  | 4.70%     | 15  | 15 | 4     |
| Sex - Traded Sex                 | No (vs. Other Options) | 706   | 2.49%      | 64  | 46 | 7     |
| Sex - Traded Sex                 | Yes (vs. Other Options)| 607   | 16.16%     | 10  | 7  | 1     |
| Sex - Pornography Used           | Yes (vs. Other Options)| 576   | 20.44%     | 73  | 64 | 11    |
|                        | (vs. No) |    |      |      |      |      |      |
|------------------------|----------|----|------|------|------|------|------|
| **Stress - Stressor**  | Money    | 444| 280  | 38.67%| 118  | 122  | 40   |
| **Stress - Stressor**  | Job      | 510| 214  | 29.56%| 89   | 86   | 39   |
| **Stress - Stressor**  | Pregnancy| 666| 58   | 8.01% | 44   | 10   | 4    |
| **Stress - Stressor**  | Parenting| 637| 87   | 12.02%| 52   | 31   | 4    |
| **Stress - Stressor**  | Family Member Health | 658| 66   | 9.12% | 32   | 30   | 4    |
| **Stress - Stressor**  | Not Having A Place To Stay | 552| 172  | 23.76%| 47   | 104  | 21   |
| **Stress - Stressor**  | Personal Health | 632| 92   | 12.71%| 38   | 44   | 10   |
| **Stress - Stressor**  | Personal Safety | 631| 93   | 12.85%| 32   | 50   | 11   |
| **Stress - Stressor**  | Hunger   | 594| 130  | 17.96%| 37   | 73   | 20   |
| **Stress - Stressor**  | Boyfriend / Girlfriend Issues | 584| 140  | 19.34%| 79   | 53   | 8    |
| **Stress - Stressor**  | Friends  | 632| 92   | 12.71%| 36   | 41   | 15   |
| **Stress - Stressor**  | Drugs    | 656| 68   | 9.39% | 24   | 38   | 6    |
| **Stress - Stressor**  | Alcohol  | 696| 28   | 3.87% | 13   | 15   | 0    |
| **Stress - Stressor**  | Other Stressor | 609| 115  | 15.88%| 50   | 38   | 27   |
| **Nicotine - Products Used** | Cigarettes | 424| 300  | 41.44%| 163  | 119  | 18   |
| **Nicotine - Products Used** | Chewing Tobacco / Snuff | 703| 21   | 2.90% | 13   | 7    | 1    |
| **Nicotine - Products Used** | E-Cigarettes | 692| 32   | 4.42% | 22   | 10   | 0    |
| **Nicotine - Products Used** | Hookah | 694| 30   | 4.14% | 18   | 9    | 3    |
| **Nicotine - Products Used** | Nicotine Replacement (Gum / Lozenge / Patch) | 686| 38   | 5.25% | 28   | 7    | 3    |
| **Nicotine - Products Used** | Cigars / Cigarillos | 634| 90   | 12.43%| 47   | 40   | 3    |
| **Nicotine - Smoking Status** | Current Smoker (vs. Non-smoker) | 117| 607  | 83.84%| 301  | 211  | 95   |
| **Nicotine - Smoking Amount** | Less than 10 Cigarettes/Day (vs. Other Options) | 333| 391  | 54.01%| 189  | 120  | 82   |
| **Nicotine - Smoking Amount** | More than 10 Cigarettes/Day (vs. Other Options) | 508| 216  | 29.83%| 112  | 91   | 13   |
| **Substances Used**    | Kush     | 699| 25   | 3.45% | 5    | 20   | 0    |
| **Substances Used**    | Marijuana| 694| 30   | 4.14% | 11   | 18   | 1    |
| Variable                          | Substances Used | Alcohol - Drank Yesterday | Alcohol - Drank Yesterday | Alcohol - Drank Yesterday | Work - Engaged In | Work - Engaged In | Work - Engaged In | Work - Engaged In | School - Attendance | School - Attendance | School - Attendance | School - Attendance | Perceived Stress | Perceived Stress |
|----------------------------------|-----------------|----------------------------|---------------------------|---------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|---------------------|---------------------|-------------------|-------------------|
|        | Ecstasy         | 586 | 138 | 19.06% | 85 | 46 | 7 | | | | | | | | |
|        | Sedatives / Pain Pills | 707 | 17 | 2.35% | 10 | 7 | 0 | | | | | | | | | |
| Alcohol - Drank Yesterday | Yes | 677 | 47 | 6.49% | 20 | 24 | 3 | | | | | | | | | |
| Alcohol - Drank Yesterday | No | 194 | 530 | 73.20% | 252 | 188 | 90 | | | | | | | | | |
| Alcohol - Drank Yesterday | Did Not Respond | 577 | 147 | 20.30% | 90 | 50 | 7 | | | | | | | | | |
| Work - Engaged In | Yes | 200 | 524 | 72.38% | 240 | 198 | 86 | | | | | | | | | |
| Work - Engaged In | No | 672 | 52 | 7.18% | 31 | 14 | 7 | | | | | | | | | |
| Work - Engaged In | Did Not Respond | 576 | 148 | 20.44% | 91 | 50 | 7 | | | | | | | | | |
| School - Attendance | Yes | 197 | 527 | 72.79% | 234 | 202 | 91 | | | | | | | | | |
| School - Attendance | No | 675 | 49 | 6.77% | 37 | 10 | 2 | | | | | | | | | |
| School - Attendance | Did Not Respond | 576 | 148 | 20.44% | 91 | 50 | 7 | | | | | | | | | |
| **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** |
| Perceived Stress Scale Total | Sum of Four 5-Point Likert-Type Items | 11.4 | 4.14 | | | | | | | | | | | | | |
| Sex - Number Times | 1 to 4+ | 0.4 | 0.96 | | | | | | | | | | | | | |
| Sex - Number Partners | 1 to 10+ | 0.54 | 1.48 | | | | | | | | | | | | | |
| Stress - Amount | 1 (Not at all) to 5 (Extremely) | 2.71 | 1.46 | | | | | | | | | | | | | |
| Alcohol - Number Drinks | 0 to 8+ | 0.36 | 1.44 | | | | | | | | | | | | | |
Table S2. Component-wise Gradient Boosting Model – First Pass (35 Retained Predictors).

Outcome predicted category = Literally Homeless or Unstable Housing (as opposed to Sheltered Night); OR > 1.0 indicate greater odds of a LH or UH night relative to a SN, while OR < 1.0 indicate lower odds relative to a SN. No shade: odds UH > SN > LH. Light gray: odds LH > SN > UH. Dark gray: UH > LH > SN. Table is ordered such by normalized average importance (high to low).

| Full Variable                                                                 | Odds Ratio (LH) | Odds Ratio (UH) | Normalized Importance (LH) | Normalized Importance (UH) | Normalized Average Importance | Frequency Endorsed on LH Nights | Frequency Endorsed on UH Nights | Frequency Endorsed on SH Nights |
|--------------------------------------------------------------------------------|-----------------|-----------------|---------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Who did you have sex with yesterday - Prostitute                             | 0.379           | 1.677           | 99.3%                     | 49.4%                     | 100.0%                        | 1                             | 4                             | 1                             |
| Who discriminated against you yesterday? - Friend                             | 2.660           | 0.655           | 100.0%                    | 40.4%                     | 94.2%                         | 12                            | 3                             | 0                             |
| Did you ask the person if they wanted to have sex before it happened each time? - No | 2.262           | 0.581           | 83.4%                     | 51.9%                     | 91.4%                         | 26                            | 13                            | 3                             |
| Who did you have sex with yesterday - Other                                  | 0.860           | 2.847           | 15.5%                     | 100.0%                    | 80.5%                         | 20                            | 27                            | 1                             |
| Yesterday, I used the following substances - Kush                             | 2.165           | 0.775           | 79.0%                     | 24.4%                     | 69.1%                         | 20                            | 5                             | 0                             |
| Who discriminated against you yesterday? - Boyfriend/Girlfriend                | 0.814           | 2.020           | 21.1%                     | 67.2%                     | 61.1%                         | 3                             | 6                             | 0                             |
| Yesterday, I used the following substances - Sedatives/Pain Pills             | 0.797           | 1.646           | 23.1%                     | 47.6%                     | 48.7%                         | 7                             | 10                            | 0                             |
| What were you stressed about? - Parenting                                     | 0.947           | 1.778           | 5.6%                      | 55.0%                     | 42.4%                         | 31                            | 52                            | 4                             |
| I worked yesterday – Yes                                                      | 0.839           | 1.526           | 18.0%                     | 40.4%                     | 40.2%                         | 198                           | 240                           | 86                            |
| What were you stressed about? - Hunger                                        | 1.255           | 0.706           | 23.2%                     | 33.3%                     | 38.6%                         | 73                            | 37                            | 20                            |
| What were you stressed about? - Not Having A Place To Stay                    | 1.487           | 0.860           | 40.5%                     | 14.4%                     | 36.8%                         | 104                           | 47                            | 21                            |
| What was the main reason(s) for the discrimination that you experienced yesterday - Disability | 0.849           | 1.405           | 16.8%                     | 32.5%                     | 33.9%                         | 3                             | 3                             | 0                             |
| Were you arrested?                                                           | 0.854           | 1.372           | 16.1%                     | 30.2%                     | 31.9%                         | 4                             | 14                            | 1                             |
| Question                                                                 | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 |
|------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| What was the main reason(s) for the discrimination that you experienced yesterday - Race | 1.419   | 0.906   | 35.8%   | 9.4%    | 30.2%   | 21      | 6       | 0       |         |          |
| Yesterday, I was...[Assaulted] - Verbally Abused                      | 1.228   | 0.881   | 21.0%   | 12.1%   | 22.3%   | 30      | 12      | 5       |         |          |
| Who assaulted you yesterday? - Family Member                           | 1.306   | 0.947   | 27.3%   | 5.2%    | 21.6%   | 10      | 9       | 0       |         |          |
| What were you stressed about - Other                                  | 0.844   | 1.136   | 17.3%   | 12.2%   | 19.9%   | 38      | 50      | 27      |         |          |
| What gender was your partner(s) yesterday? - Non-binary                | 1.102   | 0.835   | 10.0%   | 17.2%   | 18.6%   | 2       | 4       | 1       |         |          |
| What type of sex did you have? - Oral                                | 1.188   | 0.924   | 17.6%   | 7.6%    | 16.9%   | 26      | 35      | 4       |         |          |
| What were you stressed about - Alcohol                               | 0.962   | 1.218   | 4.0%    | 18.9%   | 15.9%   | 15      | 13      | 0       |         |          |
| Did you give your permission to have sex before it happened each time? - No | 0.915   | 1.136   | 9.0%    | 12.1%   | 14.5%   | 14      | 21      | 2       |         |          |
| Yesterday, I was...[Assaulted] – Physical (Hit/Slapped/Punched/Kicked) | 0.999   | 1.184   | 0.1%    | 16.2%   | 11.4%   | 30      | 67      | 9       |         |          |
| What type of sex did you have? – Anal                                | 0.944   | 1.106   | 5.9%    | 9.6%    | 10.6%   | 8       | 11      | 1       |         |          |
| How stressed were you yesterday? (1 = "Not At All Stressed" to 5 = "Extremely Stressed") | 1.054   | 0.908   | 5.4%    | 9.2%    | 10.0%   | --      | --      | --      |         |          |
| How many cigarettes did you smoke yesterday - More Than 10            | 1.086   | 1.023   | 8.5%    | 2.2%    | 7.1%    | 91      | 112     | 13      |         |          |
| Who discriminated against you yesterday? - Family Member              | 0.974   | 1.076   | 2.7%    | 7.0%    | 6.7%    | 4       | 13      | 0       |         |          |
| Who assaulted you yesterday? - Friend                                | 1.033   | 0.943   | 3.3%    | 5.6%    | 6.1%    | 14      | 18      | 5       |         |          |
| How many cigarettes did you smoke yesterday - Fewer Than 10          | 0.969   | 1.051   | 3.2%    | 4.8%    | 5.5%    | 120     | 189     | 82      |         |          |
| Did you give your permission to have sex before it happened each time? - Yes | 1.058   | 0.993   | 5.7%    | 0.7%    | 4.3%    | 37      | 49      | 5       |         |          |
| Personal Stress Scale - Total Score                                  | 1.010   | 0.958   | 1.0%    | 4.1%    | 3.5%    | --      | --      | --      |         |          |
| Select all nicotine products you used yesterday - E-Cigarettes        | 0.993   | 1.032   | 0.7%    | 3.0%    | 2.6%    | 10      | 22      | 0       |         |          |
| What was the main reason(s) for the discrimination that you experienced yesterday - Homeless | 1.025   | 0.986   | 2.5%    | 1.3%    | 2.6%    | 21      | 4       | 2       |         |          |
| Select all nicotine products you used yesterday - Cigar               | 1.034   | 0.996   | 3.4%    | 0.4%    | 2.5%    | 40      | 47      | 3       |         |          |
| Who discriminated against you yesterday? - Other | 1.018 | 0.994 | 1.8% | 0.6% | 1.6% | 24 | 7 | 1 |
| I worked yesterday                           | 1.006 | 1.196 | 0.0% | 0.0% | 0.0% | 50 | 91 | 7 |