Facebook pilot project

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**Deliverables for Phase 2 (Aim 1b) data analysis contract**

**General Description of Scope of Work:**

This will be a deeper dive into the second data set of the survey. Analyses will focus on a number of key variables contained in the online survey, which address social support, health service utilization, and psychiatric symptoms (PTSD, major depression, alcohol misuse, suicidal ideation, and suicidal behaviors). The main elements to this work will consist of the following:

* Conduct descriptive analyses of key variables noted below.
* Examine associations between features of social media use and psychiatric symptoms.
* Examine associations between Facebook social support and psychiatric symptoms.
* Construct multivariable regression models adjusting for potential confounders and run regression model diagnostics.
* Occasional meetings with the PI and other members of the research team.
* Presentation of results in a summarized format (e.g., completed dummy tables).

**Research Questions:**

1. What features of social media use associated with more or fewer psychiatric symptoms?
   1. Spending more time on social media?
   2. Sharing more personal information on Facebook?
   3. Using social media for health-related reasons?
2. Is perceived social support received from Facebook associated with lower rates of psychiatric symptoms?
   1. Facebook social support (overall)
   2. Facebook social support (emotional support subscale)
3. Is perceived social support received from Facebook associated with health service utilization?
   1. Among participants with positive screens for psychiatric disorders or suicidal ideation?
   2. Among all participants?

**Key Variables for Analysis:**

1. Facebook social support
   1. A composite measure based on a modified version of 14-item Facebook Measure of Social Support (FMSS) [fmss\_r1] – [fmss\_r14]
   2. Several individual items and subscales from the modified FMSS
2. Social contact
   1. Frequency of communicating with friends and family in person [comm\_inperson]
   2. Frequency of communicating with friends and family via Facebook [comm\_Facebook]
3. Psychiatric symptoms (screening scales)
   1. PTSD
      1. [ptsd\_intrusive] + [ptsd\_avoidant] + [ptsd\_guarded] + [ptsd\_numb] + [ptsd\_guilty] >= 3
   2. Major depression
      1. [phq\_interest] + [phq\_mood] >= 3
   3. Alcohol misuse
      1. [auditc\_freq] + [auditc\_amount] + [auditc\_binge] >= 4 for men, >= 3 for women (and excluding as “positive” cases wwhere all points come from [auditc\_freq])
   4. Suicidality (DSI-SS)
      1. [dsiss\_thoughts] + [dsiss\_plans] + [dsiss\_control] + [dsiss\_impulses] >= 3
4. Frequency of suicidal ideation and behaviors
   1. [suicide\_considered\_ever]
   2. [suicide\_considered\_12mo]
   3. [suicide\_attempts]
5. Frequency and type of social media use
   1. Social media platforms used: [sm\_used]
   2. Active use of Facebook: [comm\_Facebook]
   3. Frequency of Facebook use: [fb\_freq]
   4. Social media use for health-related reasons: [sm\_emot\_support], [sm\_med\_info], [sm\_med\_advice], [sm\_med\_questions], [sm\_share\_symptoms], [sm\_share\_health], [sm\_share\_suicide]
6. Health service utilization
   1. [va\_ever\_enrolled]
   2. [va\_use\_12mo]