

Background

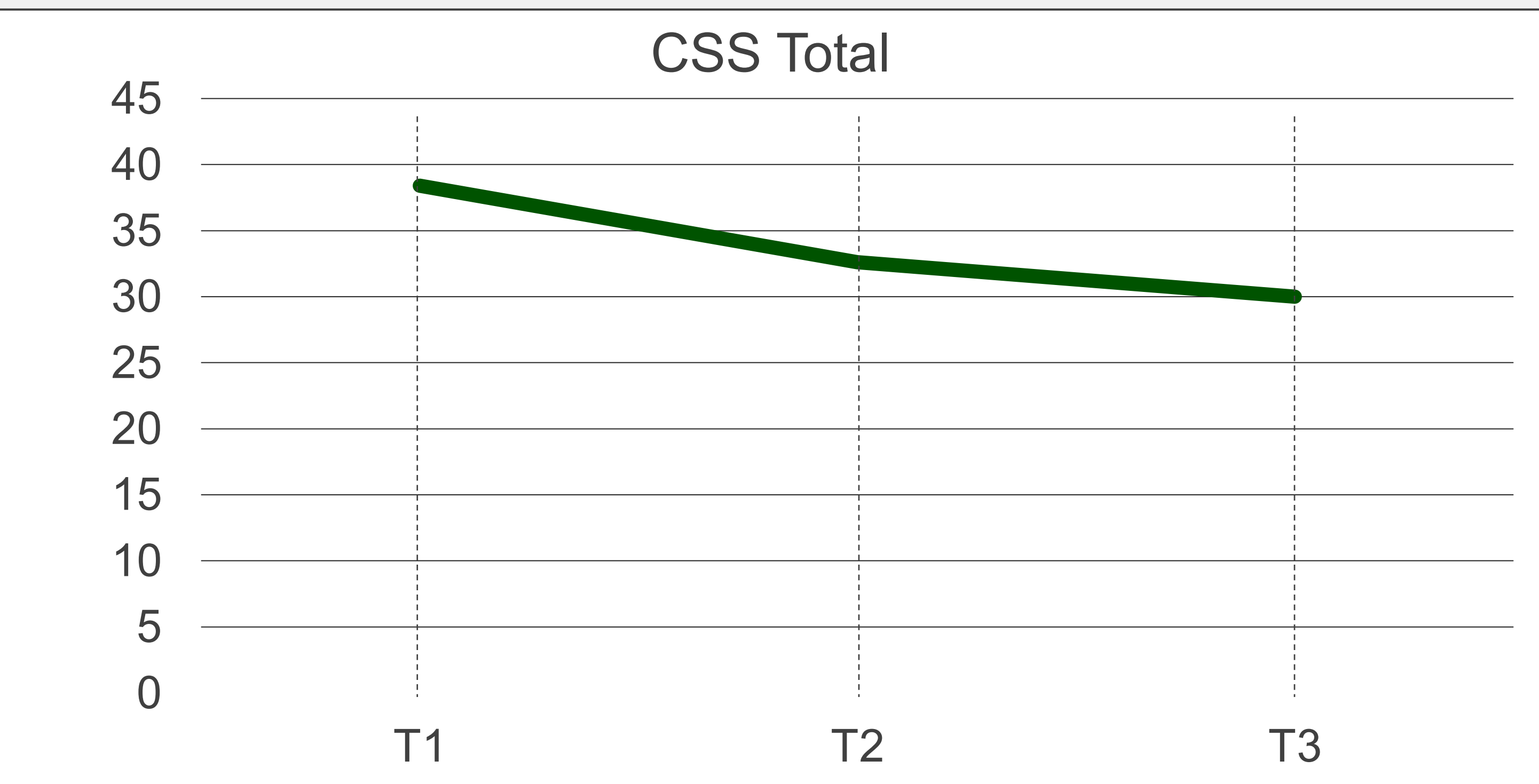
- Researchers have identified the ‘*COVID Stress Syndrome*’, comprised of 5 domains:¹
 - Fears about the dangerousness of COVID-19 and of contamination (**DAN**)
 - Worries about socioeconomic impacts of COVID-19 (**SEC**)
 - Xenophobic concerns (**XEN**)
 - Traumatic stress symptoms (**TSS**)
 - Compulsive checking/reassurance seeking symptoms (**CHE**)
- Recent research suggests that pandemics are dynamic in nature, and that there may be fluctuating levels of COVID-19 related stress^{2, 3}
- The purpose of the current analysis was to determine whether COVID-19-related stress levels have changed over the course of the pandemic

Methods

- Participants ($n=2,076$) completed a longitudinal online survey at three time points during the pandemic between March and August of 2020 (T1=Mar-Apr; T2=May; T3=Jul-Aug)
 - North American Adults (**50.1% Canada**; 49.9% United States)
 - Mean age = **53.8** years ($SD = 14.1$)
 - 59.6%** Male
- Participants self-reported levels of COVID-19 related stress, as measured by the COVID Stress Scales (**CSS**), including **DAN**, **SEC**, **XEN**, **TSS**, **CHE**¹
- One-way ANOVAs and post-hoc pairwise comparisons were conducted to compare CSS responses across three time points, using $p < .0027$ to determine statistical significance

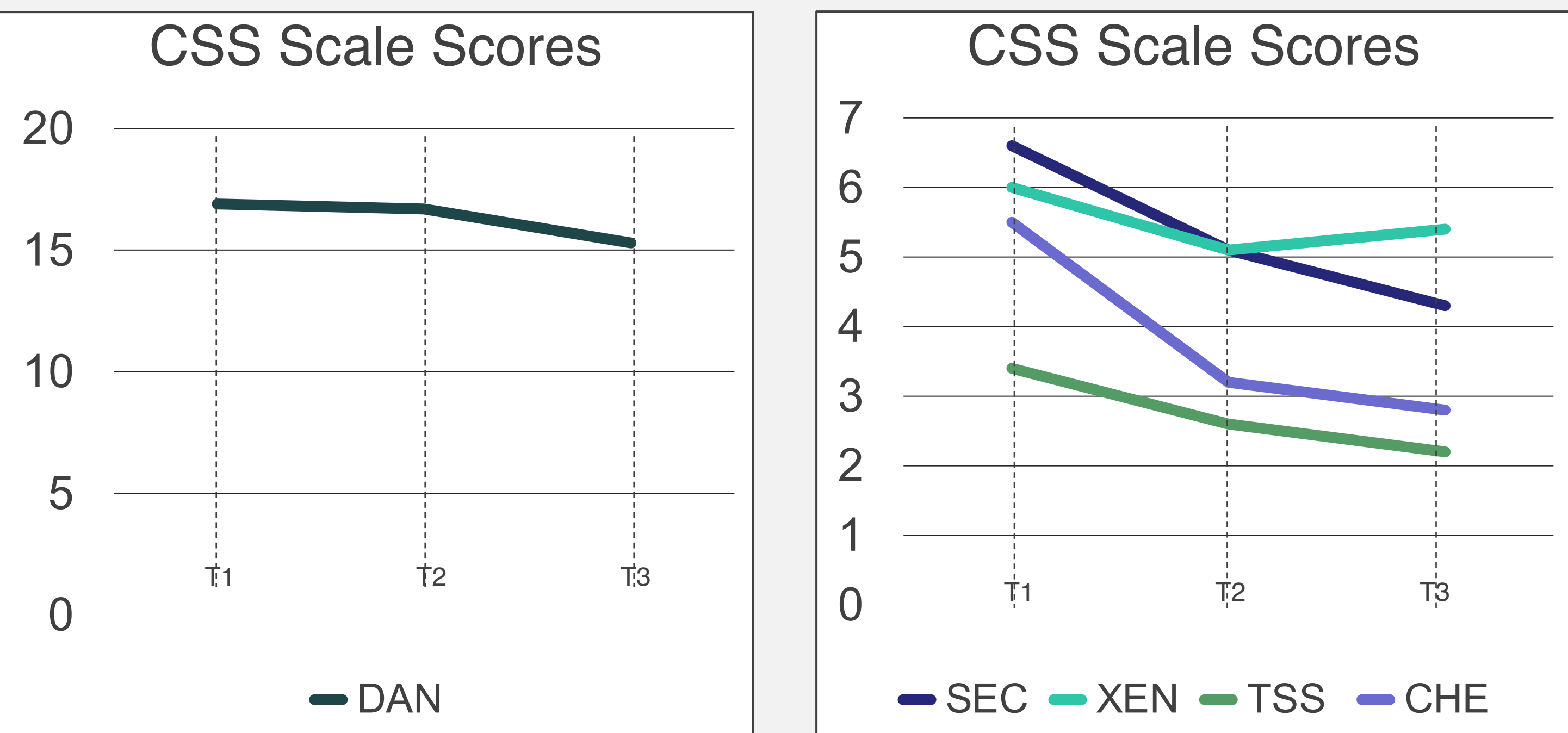
Results

Graph 1. CSS Total Scores



Note. COVID Stress Scales (CSS) total scores range from 0 to 144; T1=Mar-Apr 2020; T2=May 2020; T3=Jul-Aug 2020

Graphs 2 & 3. CSS Scale Scores



Note. DAN total scores range from 0 to 48; SEC, XEN, TSS, and CHE scores range from 0-24; T1=Mar-Apr 2020; T2=May 2020; T3=Jul-Aug 2020.

Mean	CSS-Total	CSS-DAN	CSS-SEC	CSS-XEN	CSS-TSS	CSS-CHE
T1	38.4	16.9	6.6	6.0	3.4	5.5
T2	32.6	16.7	5.1	5.1	2.6	3.2
T3	30.0	15.3	4.3	5.4	2.2	2.8

Results

- CSS Total** scores decreased from T1 to T2 and T3 ($ps<.001$); $d = 0.27$
- CSS subscale scores on **SEC** and **CHE** decreased from T1 to T2 and T3, as well as T2 to T3 ($ps<.001$, $d=.032$; and $ps<.002$, $d=0.54$, respectively).
- Scores on **DAN** decreased from T1 to T3 ($p< .001$), and T2 to T3 ($p=.001$; $d=0.13$)
- XEN** scores decreased from T1 to T2 ($p<.001$; $d=0.11$)
- TSS** scores decreased from T1 to T2 ($p < .001$), and T1 to T3 ($p<.001$; $d=0.22$)
- Effect size estimates were small to medium*, 0.11 to 0.54

Discussion

- On average, CSS total and scale scores, except XEN, decreased from March to August of 2020
- COVID-19 related stress responses may reflect acute psychological response to that gradually decreases over time without intervention; whether this applies to the general population as well as with pre-existing anxiety- or mood-related disorders remains to be determined
- Further research is needed to determine whether COVID-19 related stress fluctuations correspond with levels of perceived threat at a given time

References

- Taylor, S., Landry, C. A., Paluszek, M. M., Fergus, T. A., McKay, D., & Asmundson, G. J. G. (2020). COVID stress syndrome: Concept, structure, and correlates. *Depression and Anxiety*, 37(8), 706–714.
- Asmundson, G. J. G., & Taylor, S. (2020). Coronaphobia revisited: A state-of-the-art on pandemic-related fear, anxiety, and stress. *Journal of Anxiety Disorders*, 76, 102326.
- Angus Reid Institute (2020, July 15). COVID-19: Canadian concern over falling ill on the rise again. <http://angusreid.org/covid-concern-rising/print>