**Change in depression due to COVID-19**

Depression among the study participants was measured using the CES-D. Comparing the mean of each item and the total score on the CES-D, the mean and total points of each item during COVID-19 decreased ([Fig 2](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0247970#pone-0247970-g002)). When compared before and after COVID-19, the depression scores of the participants significantly increased in all sub-categories (*p*<0.001). In addition, significant changes were observed when total scores were compared (*p*<0.001). This indicates that the higher the total score, the greater the severity of depression, and the more likely it that depression was caused by the pandemic situation.



