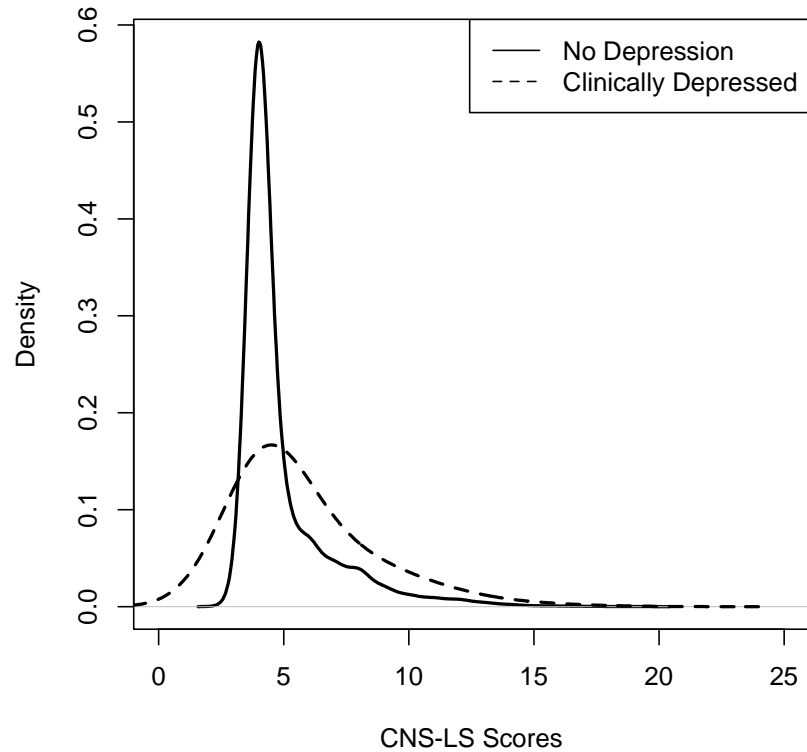


Figure e-1. Distribution of CNS-LS subscale scores for pathological happiness/euphoria (A) and subscale scores for pathological sadness/crying among NARCOMS participants between depressed vs. non-depressed individuals (B).

A Distribution of CNS-LS 'Laughing' Subscale Scores by Depression Status



B Distribution of CNS-LS 'Crying' Subscale Scores by Depression Status

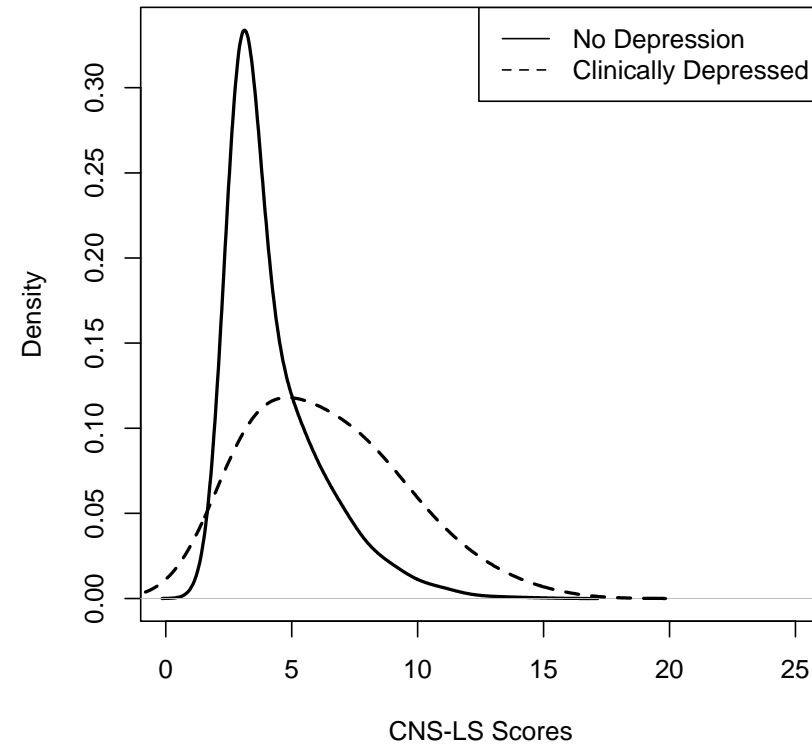


Figure e-2. Venn diagram depicting the overlap between responders with MS-specific CNS-LS scores ≥ 17 ($n=574$), those meeting criteria for PBA-positive (PBA[+]; CNS-LS scores ≥ 17 and no depression; $n=200$) and those who report ever having been diagnosed with PBA by a physician ($n=133$). 55 individuals report both physician diagnosis at some point, and a current CNS-LS ≥ 17 (without consideration of depression); 22 individuals report both physician diagnosis at some point, a current CNS-LS ≥ 17 , and no depression

