Evaluating DSM-5 diagnostic cut-off scores for self-reported cannabis problem measures

A Marijuana Problems Index (MPI) cutoff of 30.5 differentiated cis- men and women past year users with Cannabis Use Disorder. Useable cutoffs were not identified for the Brief Marijuana Consequences Questionnaire (BMCQ).

**RESULTS**
- 14 participants (18.2%) met criteria for past year CUD.
- Both the MPI (AUC = .874, SE = .078) and BMCQ (AUC = .675, SE = .083) discriminated CUD diagnoses better than chance (i.e., AUC = .50), but only the MPI demonstrated adequate discrimination.
- A MPI score of 30.5 correctly identified 71.4% of the sample with an excellent balance of sensitivity (.90) and 1-specificity (.14).
- However, the best cut-off score for the BMCQ only correctly identified 52.5% of the sample with good sensitivity (.85) and poor 1-specificity (.32).
- Independent samples tests did not indicate gender differences in score discrimination on the MPI (ΔAUC = .010) or BMCQ (ΔAUC = .066, p's > .05).

**DISCUSSION**
- The 30.5 cutoff score on the MPI can be used to differentiate emerging adults with and without a past year CUD.
- Notably, the 30.5 MPI cutoff has also been replicated among adolescents.
- Findings reinforce the need for more psychometric work on widely used measures to establish construct validity.

**REFERENCES**