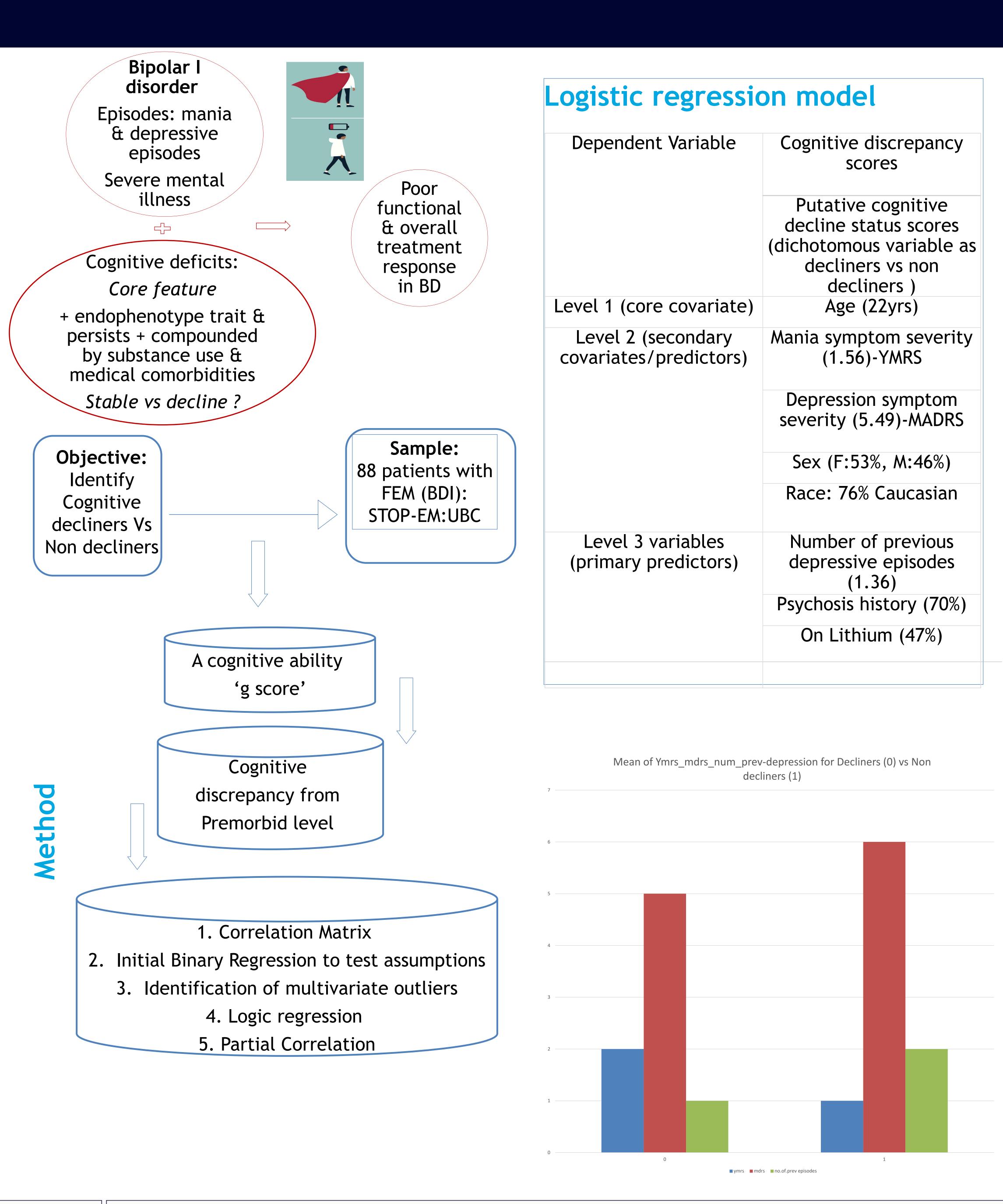
Putative cognitive decliners versus non decliners in first episode mania

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Parameters of the analysis

Logistic regression & Partial/bivariate correlations)

- ☐ General cognitive ability (g): Mean & SD .0000 (1.000) of factor analysis FAC_1
 - ☐ Estimated premorbid IQ scores (mean & SD of zNAART) .020 (1.012)
 - ☐ Cognitive discrepancy score (g score NAART premorbid IQ) .0209(1.07)
- ☐ Putative decliners versus non decliners: cognitive discrepancy score of <-.5 ("decliners,") & >-.5 as (non-decliners)
- ☐ Logistic regression: to assess if any clinical variables would predict decliner vs non decliner status
 - ☐ Analysis indicated 31.8 % as decliners

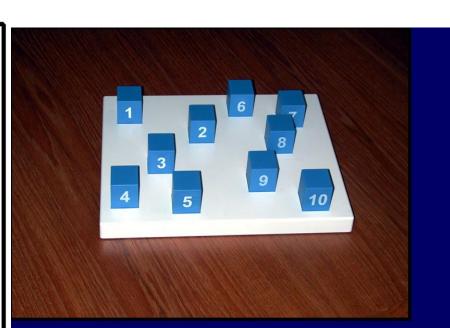
| | | | | | | | | 95% C.I.for EXP(B) | |
|---------------------|--|-------|-------|-------|----|------|--------|--------------------|-------|
| | | В | S.E. | Wald | df | Sig. | Exp(B) | Lower | Upper |
| Step 1 ^a | Age of subject at time of screen | 065 | .063 | 1.054 | 1 | .305 | .937 | .828 | 1.061 |
| | Sex(1) | .744 | .583 | 1.631 | 1 | .202 | 2.104 | .672 | 6.591 |
| | race(1) | 257 | .694 | .137 | 1 | .711 | .773 | .198 | 3.016 |
| | score of ymrs closest to baseline neurocog | 177 | .099 | 3.217 | 1 | .073 | .838 | .691 | 1.017 |
| | score of mdrs closest to basline neurocog | .059 | .047 | 1.565 | 1 | .211 | 1.061 | .967 | 1.163 |
| | num_previous_depressions | .086 | .146 | .349 | 1 | .555 | 1.090 | .819 | 1.450 |
| | psychosis_recoded(1) | 143 | .589 | .059 | 1 | .809 | .867 | .273 | 2.752 |
| | onlithium_recoded(1) | 952 | .531 | 3.219 | 1 | .073 | .386 | .136 | 1.092 |
| | Constant | 2.471 | 1.428 | 2.994 | 1 | .084 | 11.838 | | |

| Cognitive discrepancy | age of subject228*; race - | | | | |
|-----------------------|----------------------------|--|--|--|--|
| | .218*; lithium244* | | | | |
| Age of the subject | race .232* | | | | |
| Race | ymrs .242* | | | | |
| Ymrs | madrs .302* | | | | |
| Previous depression | psychosis .288* | | | | |

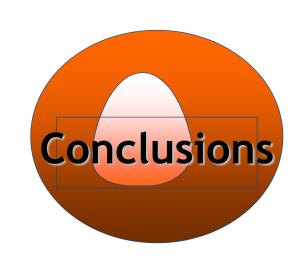
Correlation is significant at the 0.05 level (2-tailed). Youngs Mania rating Scale (ymrs), Montgomery-Åsberg Depression Rating Scale (MADRS)

Neuropsychological Domains

BLUE RED YELLOW ORANGE
GREEN BLUE PURPLE RED
PURPLE YELLOW RED BLUE
ORANGE BLUE YELLOW RED
RED GREEN ORANGE BLUE
PURPLE YELLOW BLUE ORANGE



- √ trails B t-score
- ✓ stroop CW t-score
- ✓ letter number sequencing scaled score
 - ✓ cvlt 1-5 t-score
- ✓ spatial recognition memory percent correct standard
- ✓ Stockings of Cambridge number of problems solved in minimum moves standard
- ✓ spatial working memory between errors standard



- ☐ 32% of cognitive decliners from premorbid function (first episode)
- ☐ No consistent clinical predictors of decliners vs non decliners (assessment is still in the early course of illness)
- ☐ Periodic & longitudinal assessment would aid

Reference / Bibliography

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