



THE AUSTRALIAN NATIONAL UNIVERSITY

# Preventing Mental Health Problems in Youth: The YouthMood Project

Alison Clear, Helen Christensen, Andrew Mackinnon,  
Kathleen Griffiths and Richard O'Kearney

# Universal School-Based Trials

- 27 RCTs evaluating universal anxiety and depression prevention programs in schools
- 4 trials evaluated the program with classroom teachers

Program	Anxiety (ES)	Depression (ES)
FRIENDS	0.62–0.63*	0.30–0.33*
Problem Solving for Life (Trial 1)	-	0.03–0.36*
Problem Solving for Life (Trial 2)	-0.08–0.07	0.04–0.05
Penn Resiliency Program	-	0.14–0.51*

# Aims

- To establish whether MoodGYM is effective in reducing students' vulnerability to anxiety and depression
- To test MoodGYM with a larger and more diverse sample, following promising results from the pilot studies
- To establish the 'true' preventive effects of the MoodGYM program

# Participants

- 30 schools participated
- 56% of participants were female
- 17% lived on a farm or rural property
- Mean age = 14.33 years

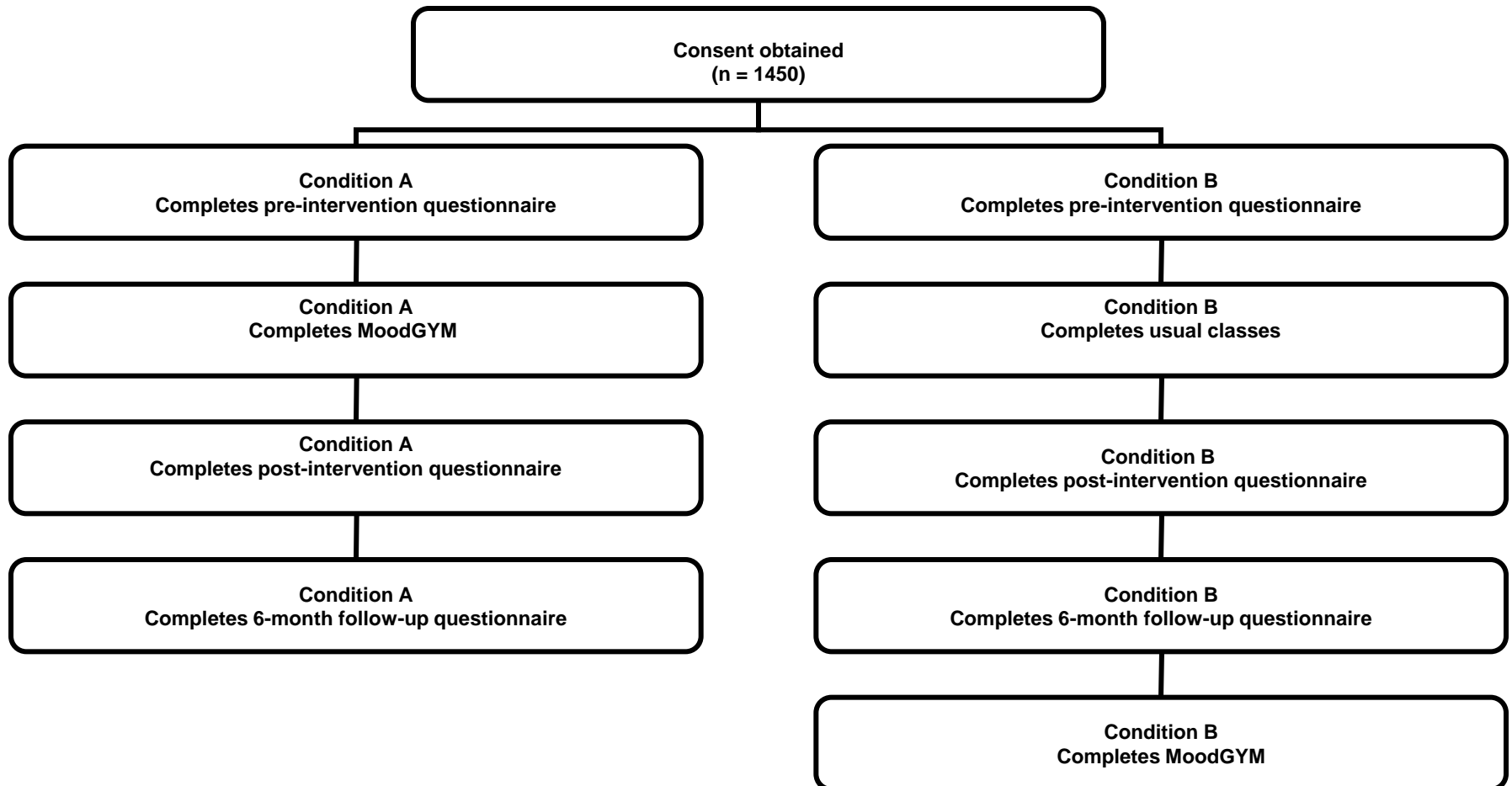
# Measures

- Center for Epidemiological Studies Depression Scale (CES-D)
- Revised Children's Manifest Anxiety Scale (RCMAS)
- Depression preventive sub-sample: CES-D < 24
- Anxiety preventive sub-sample: RCMAS < 19

# The MoodGYM Program

- <http://moodgym.anu.edu.au>
- Online CBT program
- Five Modules: Feelings, Thoughts, Unwarping, Destressing and Relationships
- Interactive quizzes and exercises

# Procedure

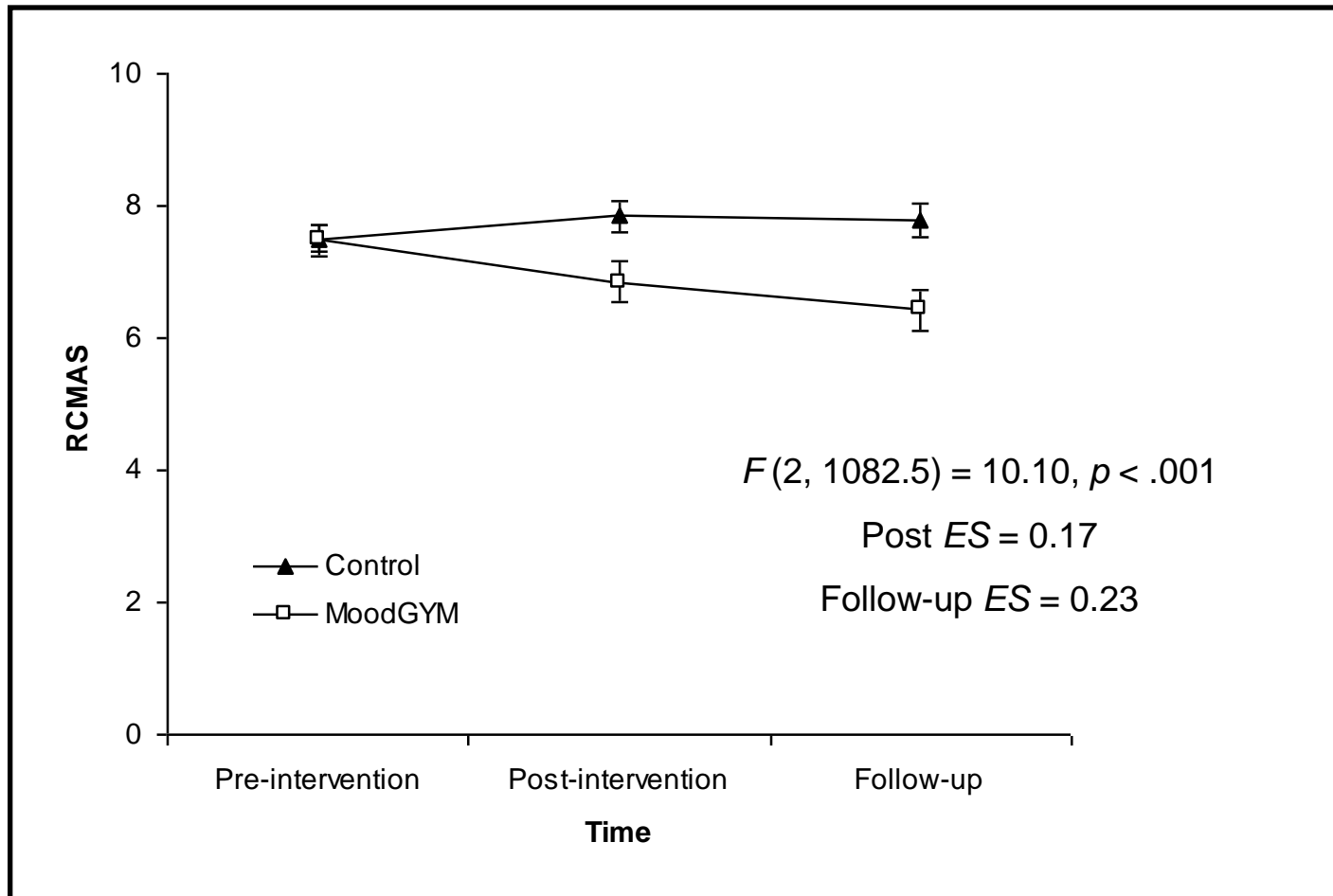


# Data Analysis

- Mixed models repeated measures ANOVA
  - Repeated measures
  - Students clustered within classes
- ICC ~ 0.03
  - Class effects minimal
- ITT analysis



# Mixed Model ANOVA- Anxiety



# Planned Contrasts- Anxiety

- Pre-test to Post-test:

- MoodGYM pre to post change = -0.63

vs.

Control pre to post change = 0.33

- $t(1113.0) = 3.30, p = .001$

- Pre-test to Follow-up:

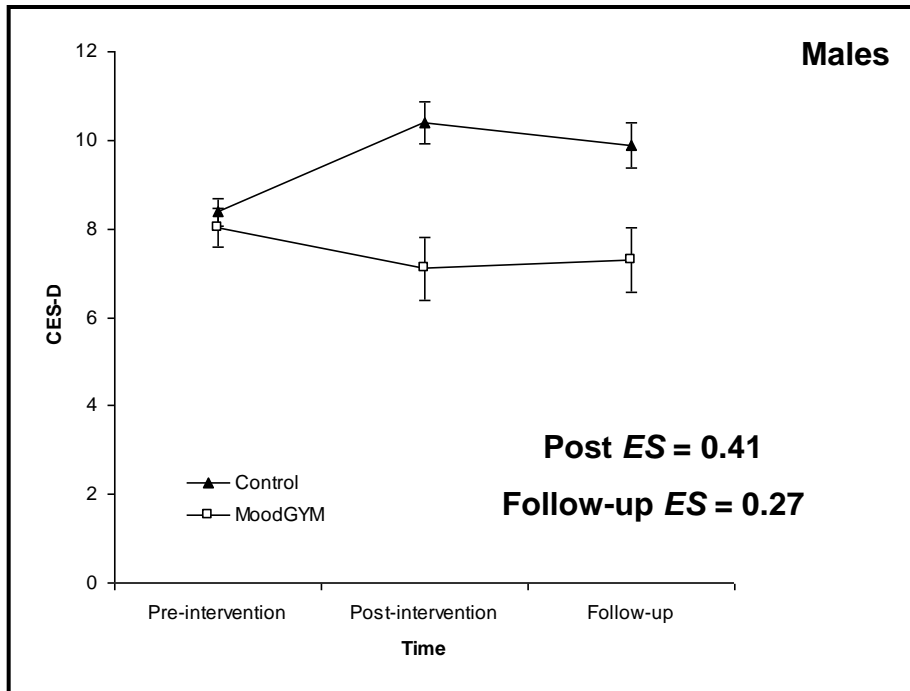
- MoodGYM pre to follow-up change = -1.06

vs.

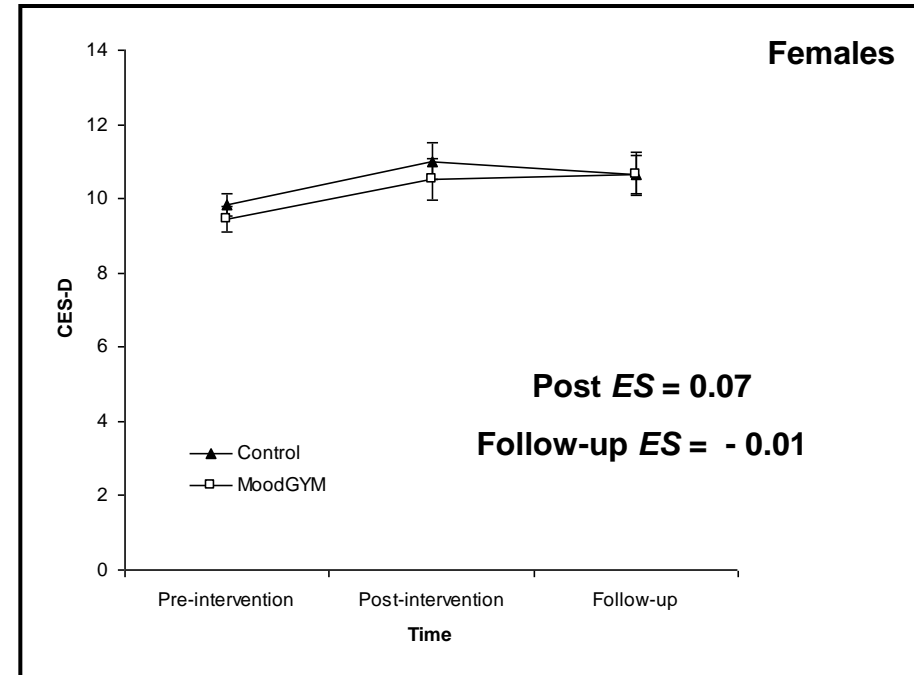
Control pre to follow-up change = 0.28

- $t(1081.1) = 4.11, p < .001$

# Mixed Model ANOVA- Depression



$F(5, 1425.6) = 2.13, p = .06$



# Planned Contrasts- Male Depression

- Pre-test to Post-test:
  - MoodGYM pre to post change = -0.92  
vs.  
Control pre to post change = 2.02
  - $t(1075.5) = 3.80, p < .001$
- Pre-test to Follow-up:
  - MoodGYM pre to follow-up change = -0.74  
vs.  
Control pre to follow-up change = 1.49
  - $t(1039.1) = 2.67, p = .008$

# Anxiety Caseness Analyses

- Post-intervention
  - Intervention condition = 0.8%
  - Wait-list control condition = 2.2%
  - $\chi^2 (1) = 3.27, p = .07$
- 6-month follow-up
  - Intervention condition = 0.8%
  - Wait-list control condition = 1.9%
  - $\chi^2 (1) = 2.09, p = .15$

# Depression Caseness Analyses

- Post-intervention
  - Intervention condition = 2%
  - Wait-list control condition = 8.9%
  - $\chi^2 (1) = 7.95, p < .01$
- 6-month follow-up
  - Intervention condition = 4%
  - Wait-list control condition = 9.6%
  - $\chi^2 (1) = 4.45, p = .03$

# Conclusion

- Effective classroom resource
- Internet interventions can be successfully implemented in schools
- Suitable for a variety of classroom environments

# Acknowledgements

- Ms Lou Farrer
- The project is funded by the Vincent Fairfax Family Foundation