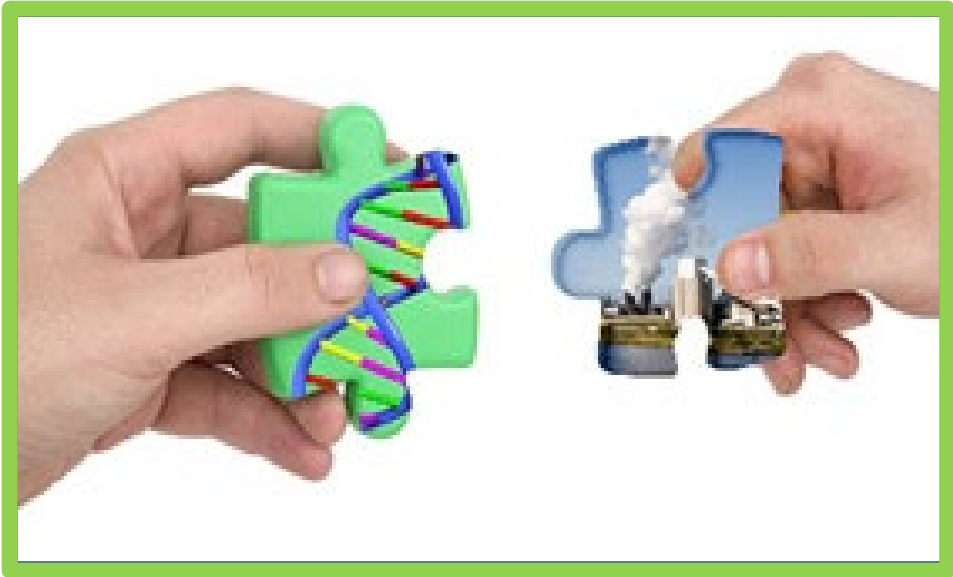
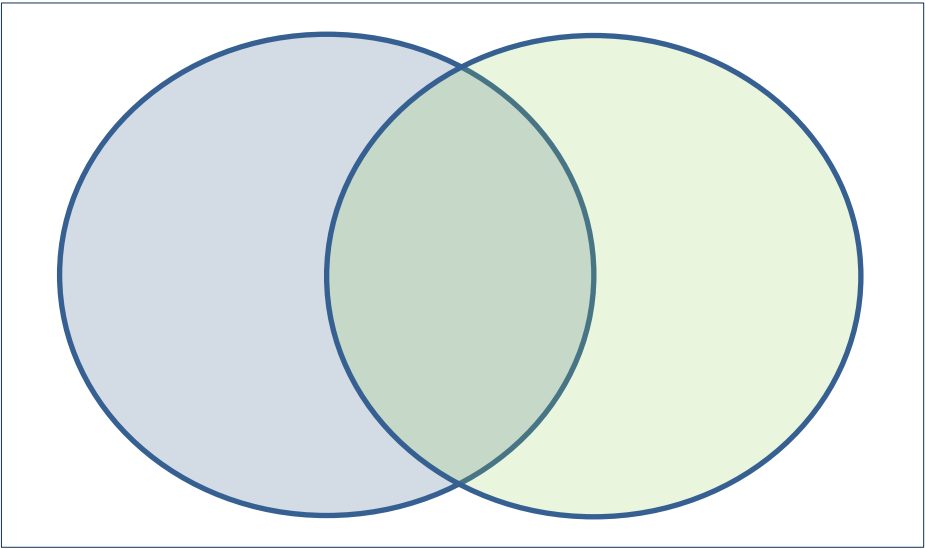
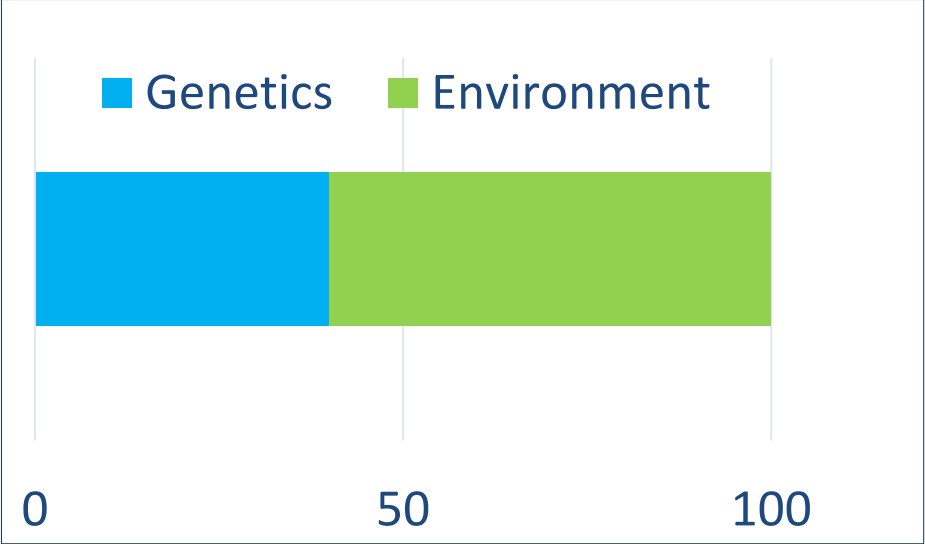




Anxiety Genetics: What do we know and how might that help?

Thalia C. Eley

Anxiety genetics: what we know



Anxiety genetics



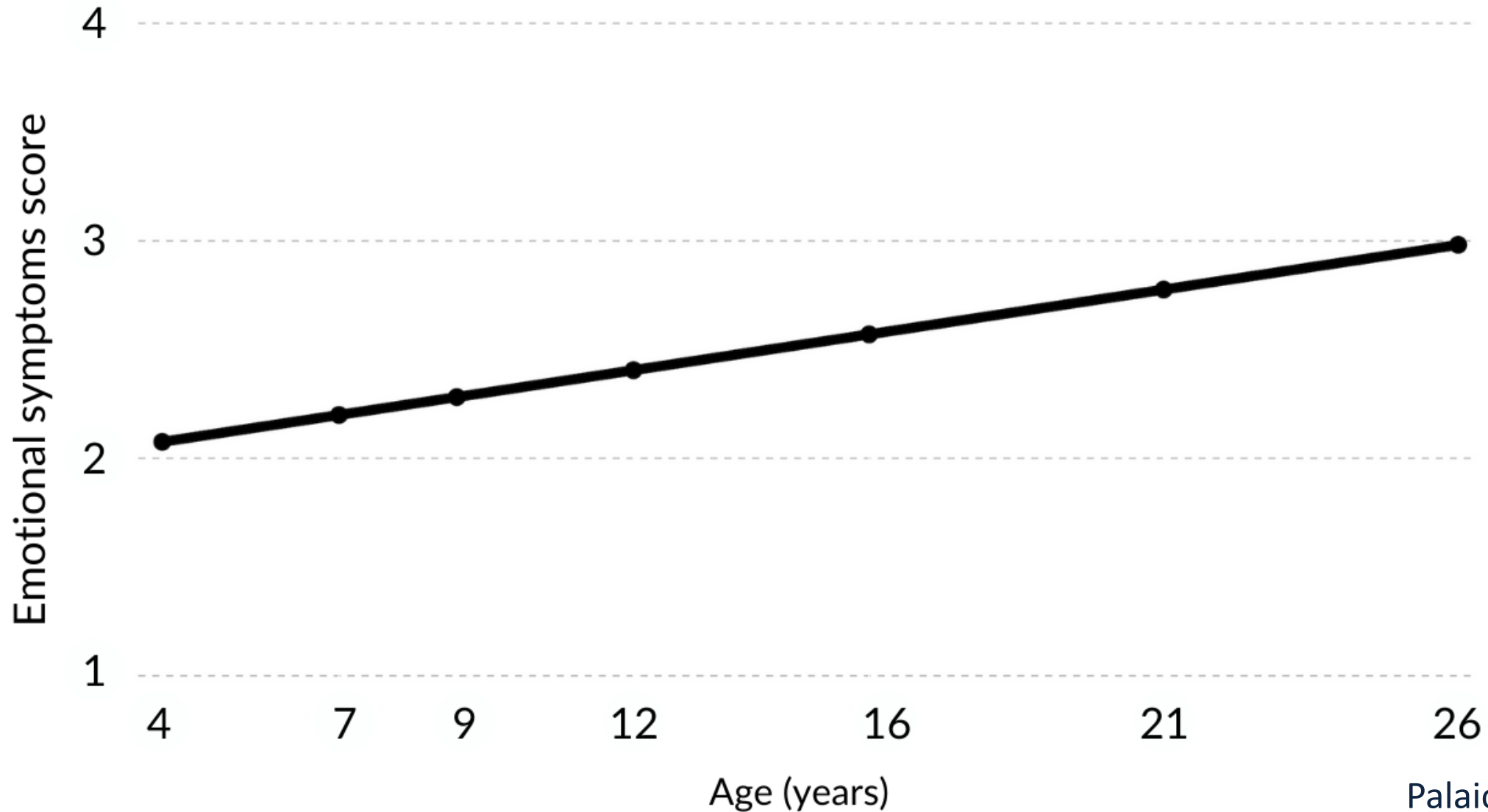
Anxiety genetics: predicting outcomes



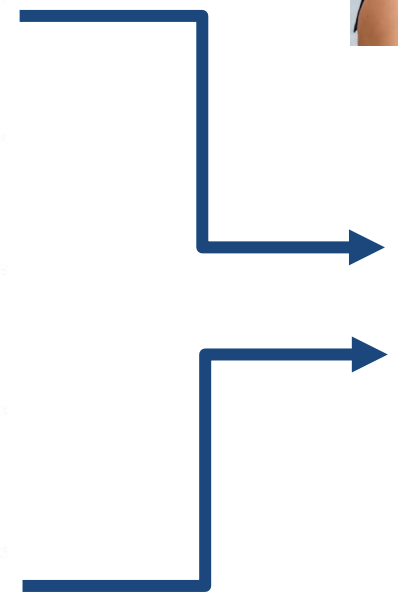
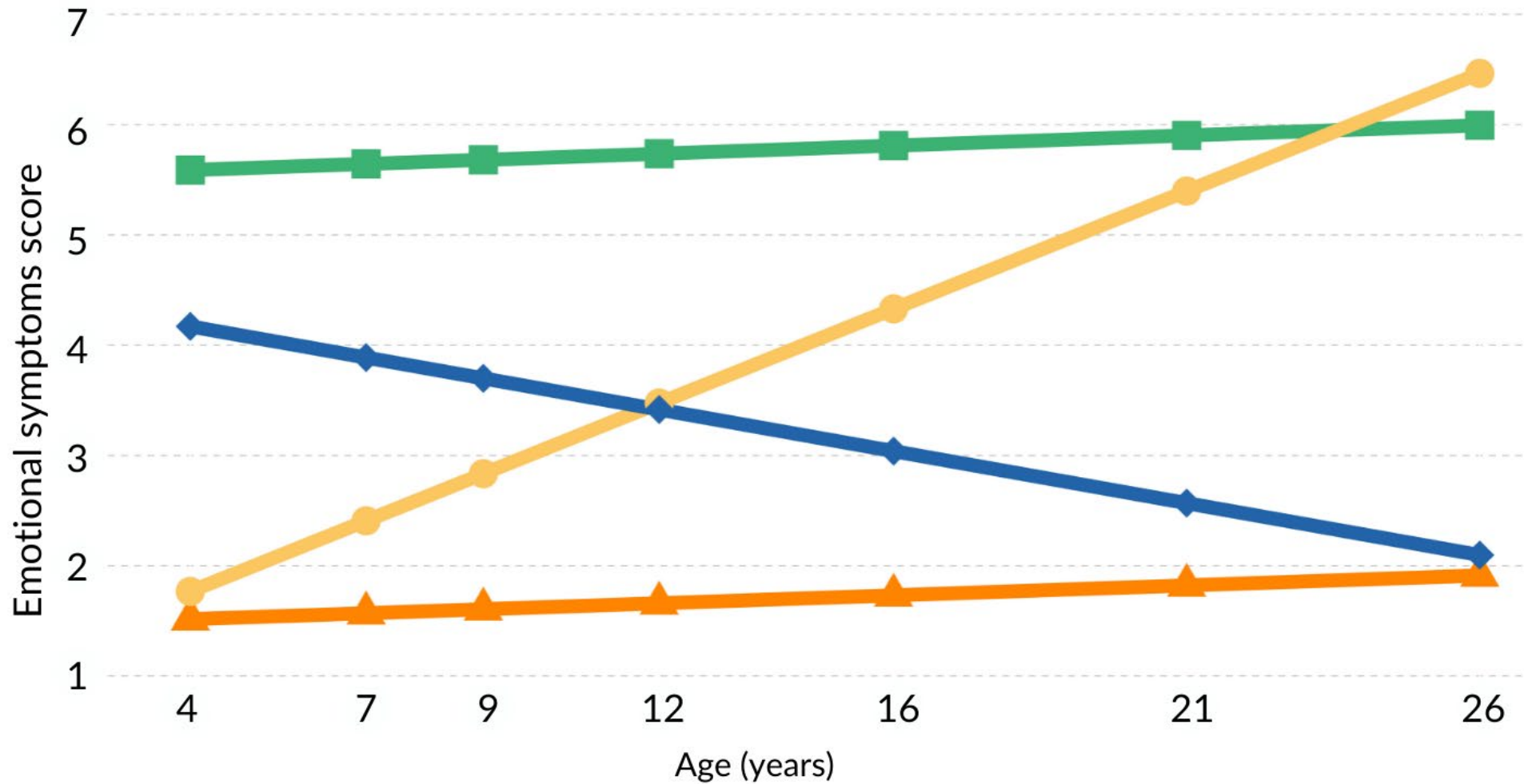
Predicting outcomes: developmental trajectories



Emotional symptoms across development



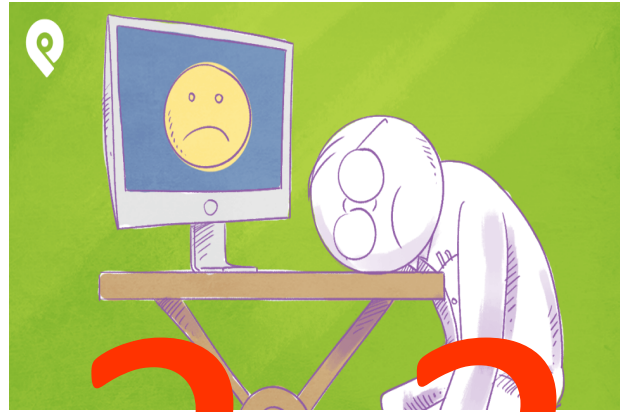
Emotional symptoms across development



Age 26 outcomes of emotional symptom trajectories



3-4



2-3



2



Predicting emotional symptom trajectories



before age 4



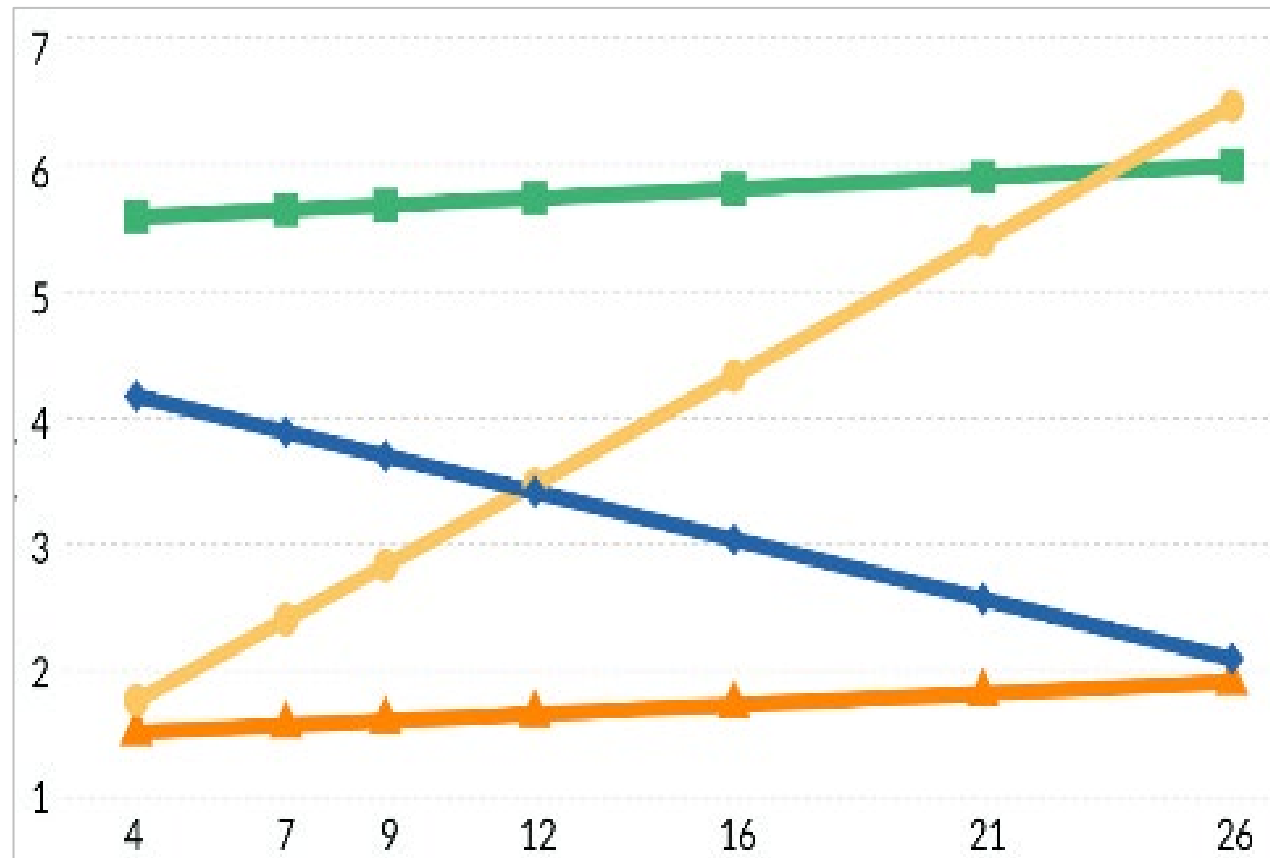
60-80%



Selected predictors of emotional symptom trajectories

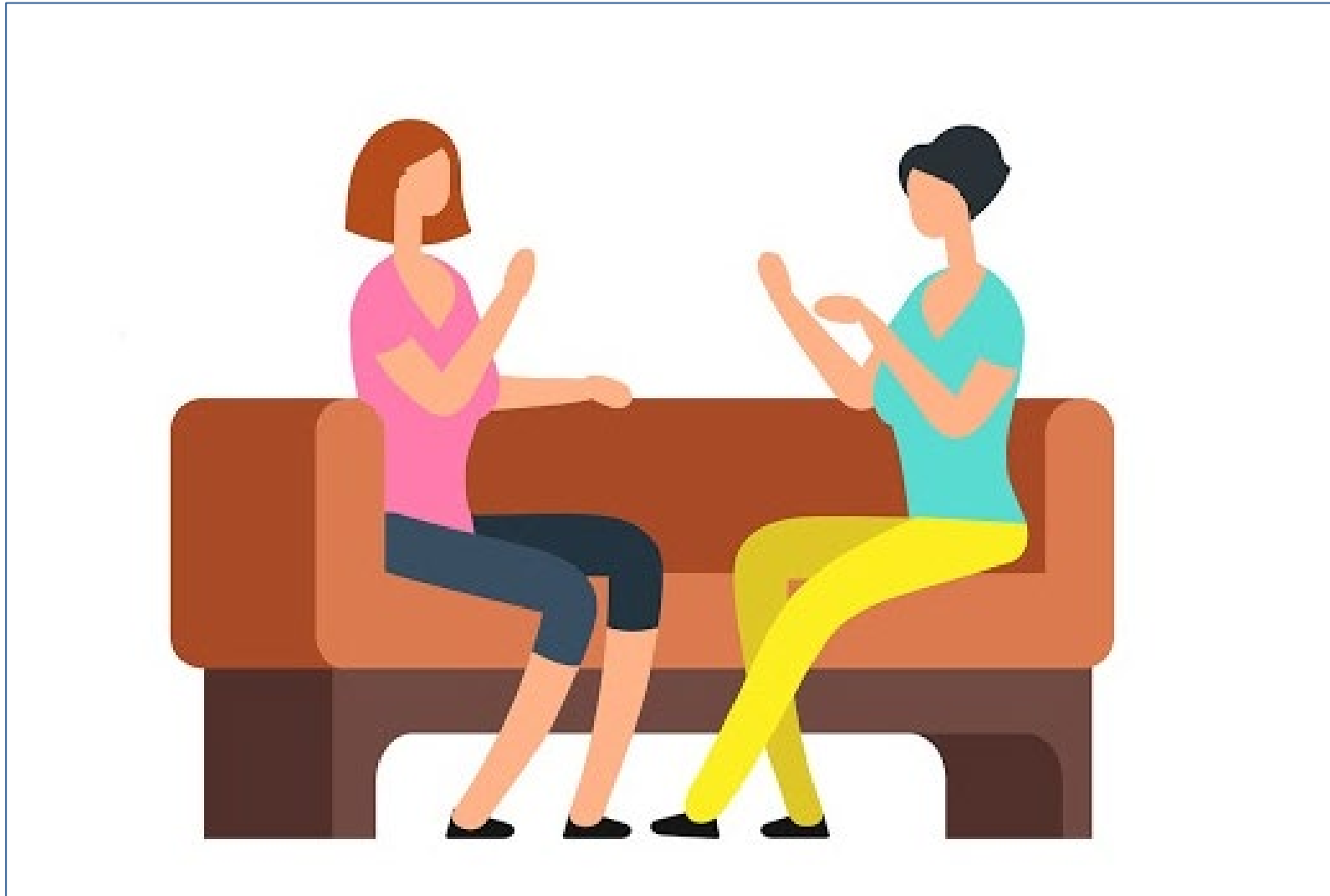


- Neuroticism PRS
- Bipolar PRS
- Female sex
- Townsend deprivation
- Parental discipline age 4
- Chaos in home age 4
- IQ PRS
- Number medications PRS
- Neuroticism PRS
- Male sex
- Peer problems age 4
- Conduct problems age 4
- Chaos in home age 3



- Broad depression PRS
- Neuroticism PRS
- Ever depressed PRS
- Pain medication PRS
- Female sex
- Conduct probs age 4
- Low internalising PRS
- Low worry PRS
- Low Neuroticism PRS
- Male sex
- Low peer probs age 4
- Low conduct probs age 4
- Low home chaos age 4

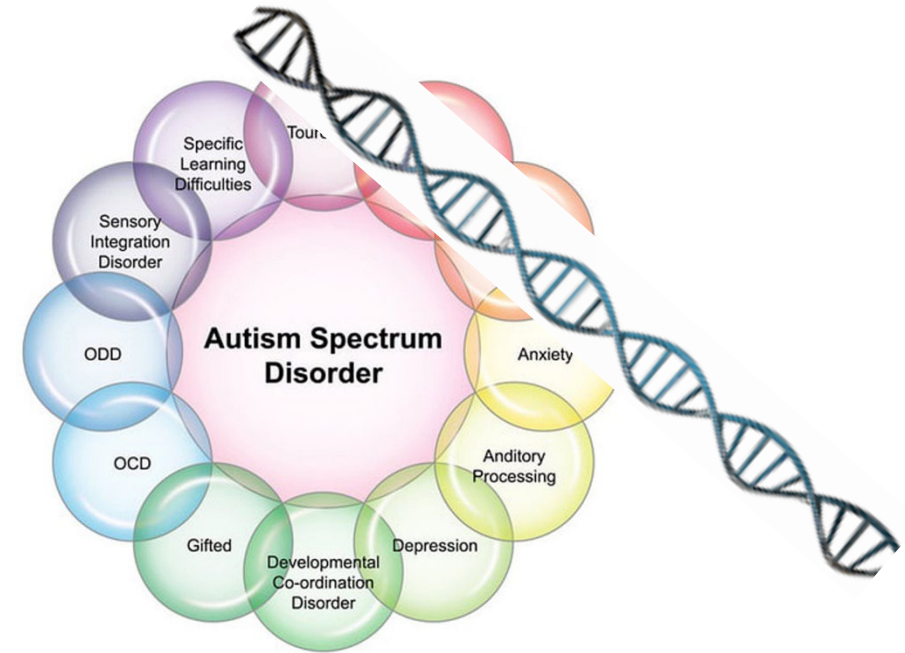
Predicting outcomes: psychological treatment response



Polygenic scores and psychological treatment response

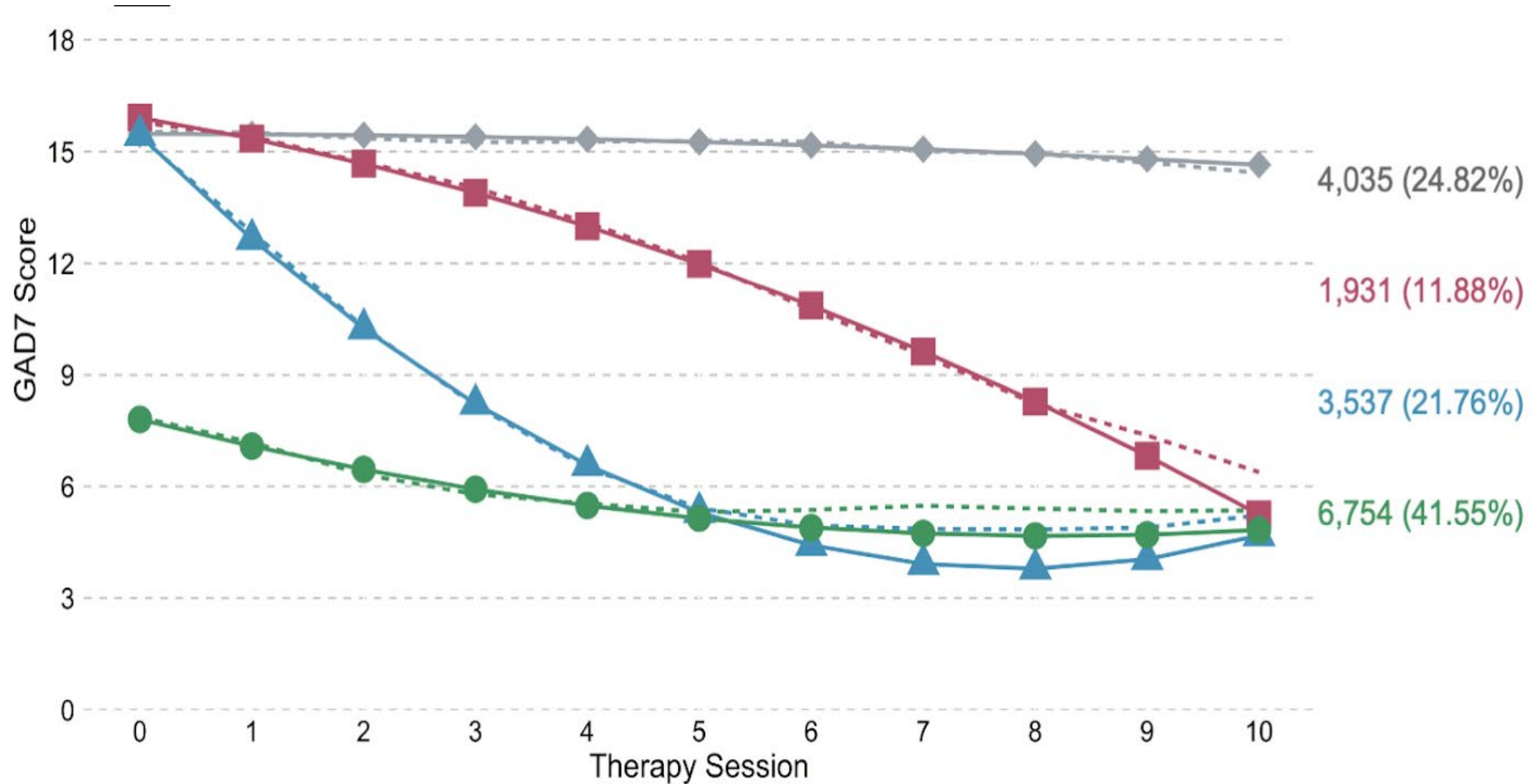


Keers et al., (2016)
Psychotherapy and Psychosomatics

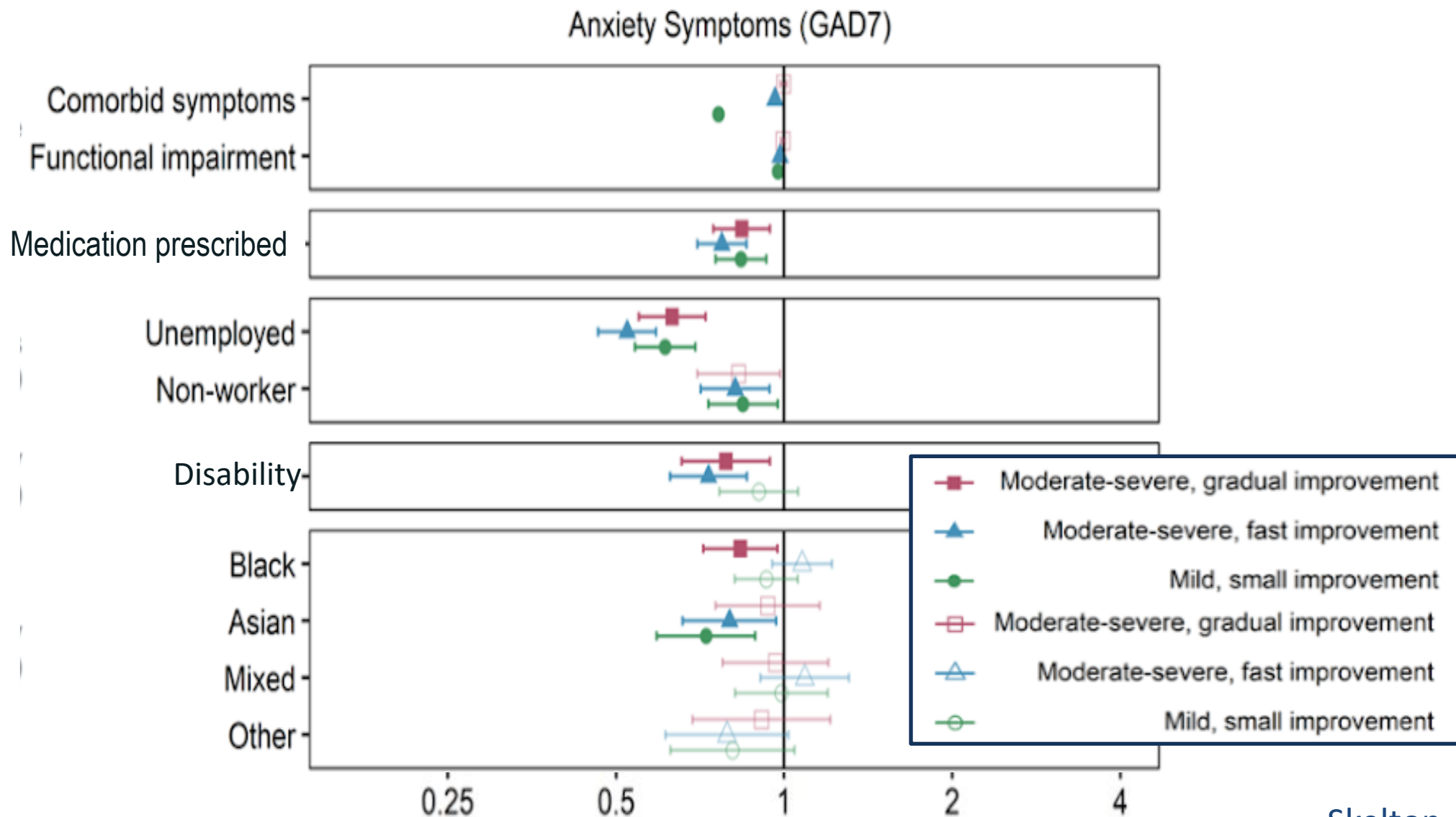


Andresson et al., (2018)
Molecular Psychiatry

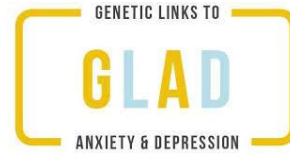
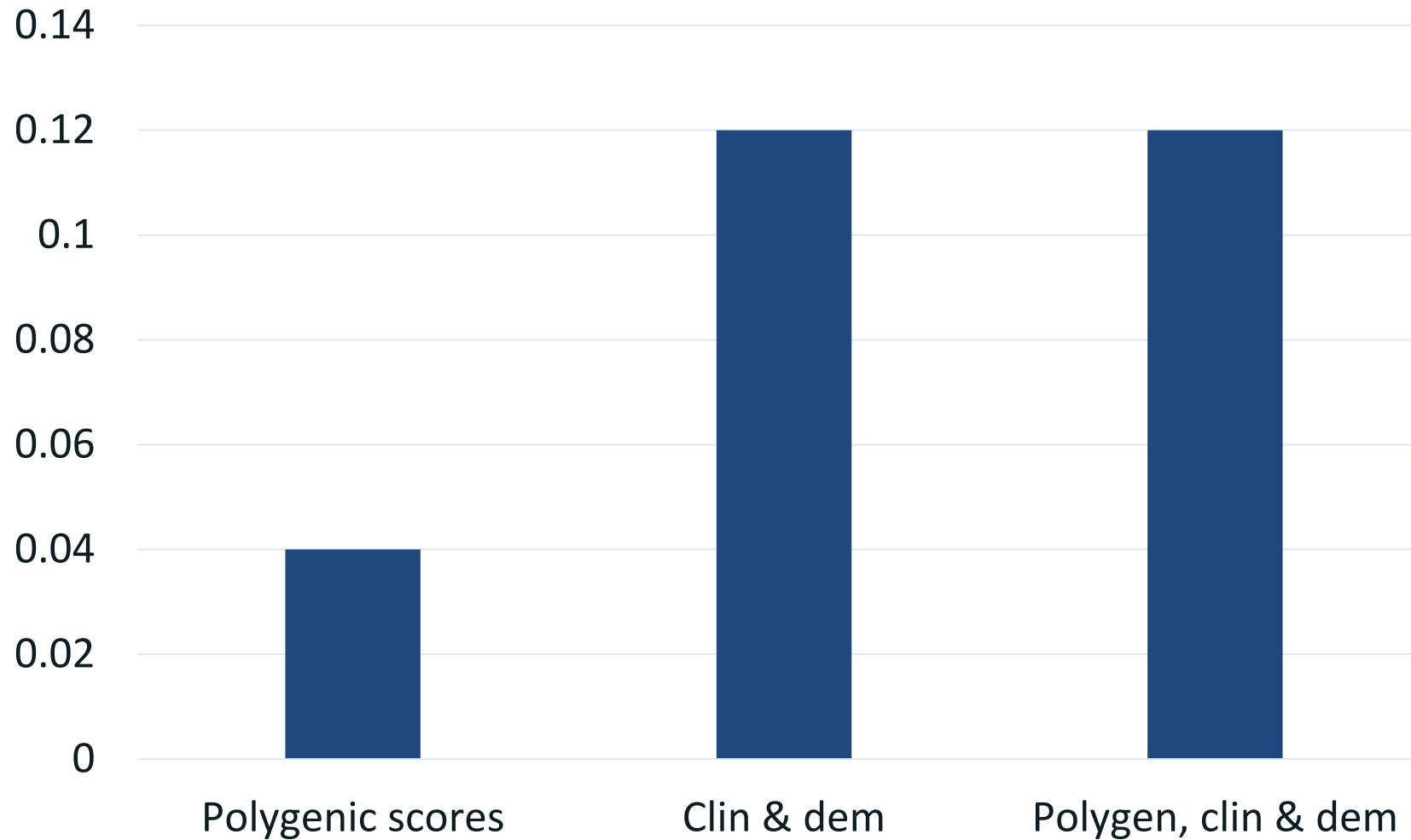
Psychological treatment outcome



Predicting psychological treatment outcome



Predicting self-reported psychological treatment outcome



Predicting outcomes



Anxiety genetics: how can it help?



Acknowledgements

PGC-ANX

Group Chairs

Jurgen Deckert

Thalia Eley

Jack Hettema

PGC-ANX

Group Analysts

Silviu Bacanu

Manuel Mattheisen

Kirstin Purves

Rosa Cheesman

Brad Verhulst

Analysts

Elisavet Palaiologou

Abi ter Kuile

Alicia Peel

Megan Skelton

Ewan Carr



thalia.eley@kcl.ac.uk

<https://blogs.kcl.ac.uk/editlab/>