

# COGNITION AND SOCIAL CIRCUMSTANCES AS POSSIBLE INFLUENCES ON LATER ACHIEVEMENT AND PSYCHOPATHOLOGY

By

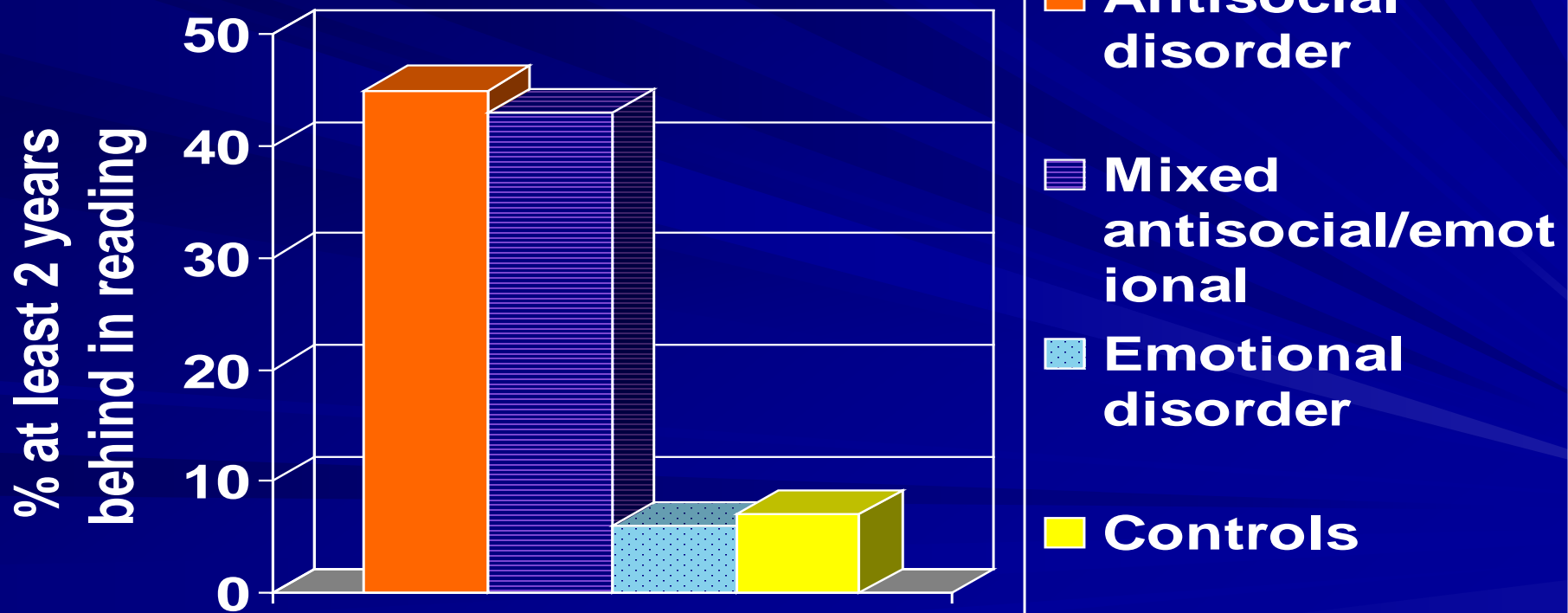
Michael Rutter

# FINDINGS ON OVERLAP BETWEEN SEVERE READING DIFFICULTIES AND PSYCHOPATHOLOGY IN CHILDHOOD

- Extensive evidence that there is a strong overlap in childhood between severe reading difficulties and antisocial behaviour. This has been shown in total population epidemiological samples, as well as in clinic attenders

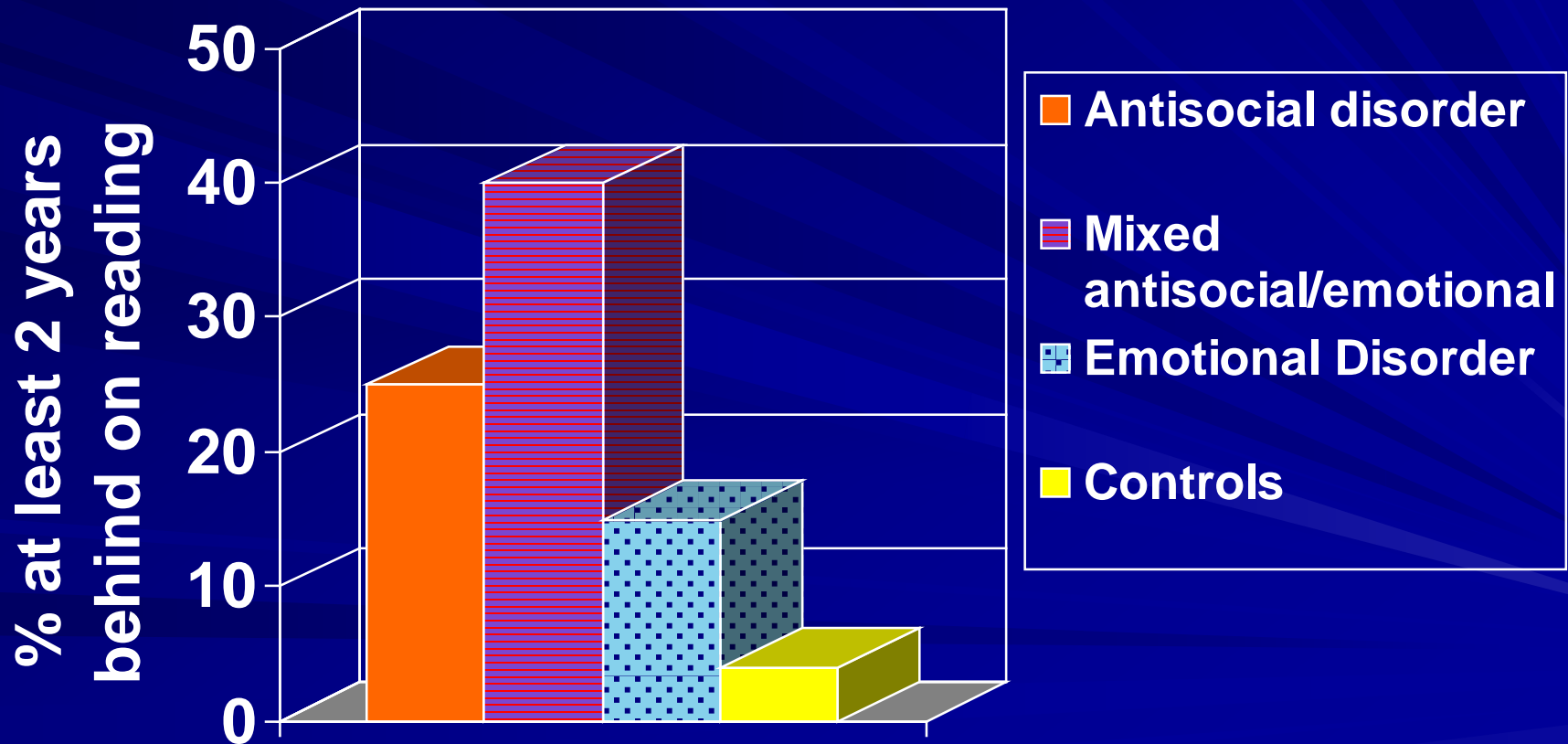
# SEVERE READING RETARDATION AND PSYCHIATRIC DISORDER AT AGE 10-11 YEARS ON THE ISLE OF WIGHT (BOYS)

(from Rutter, Tizard & Whitmore, 1970)

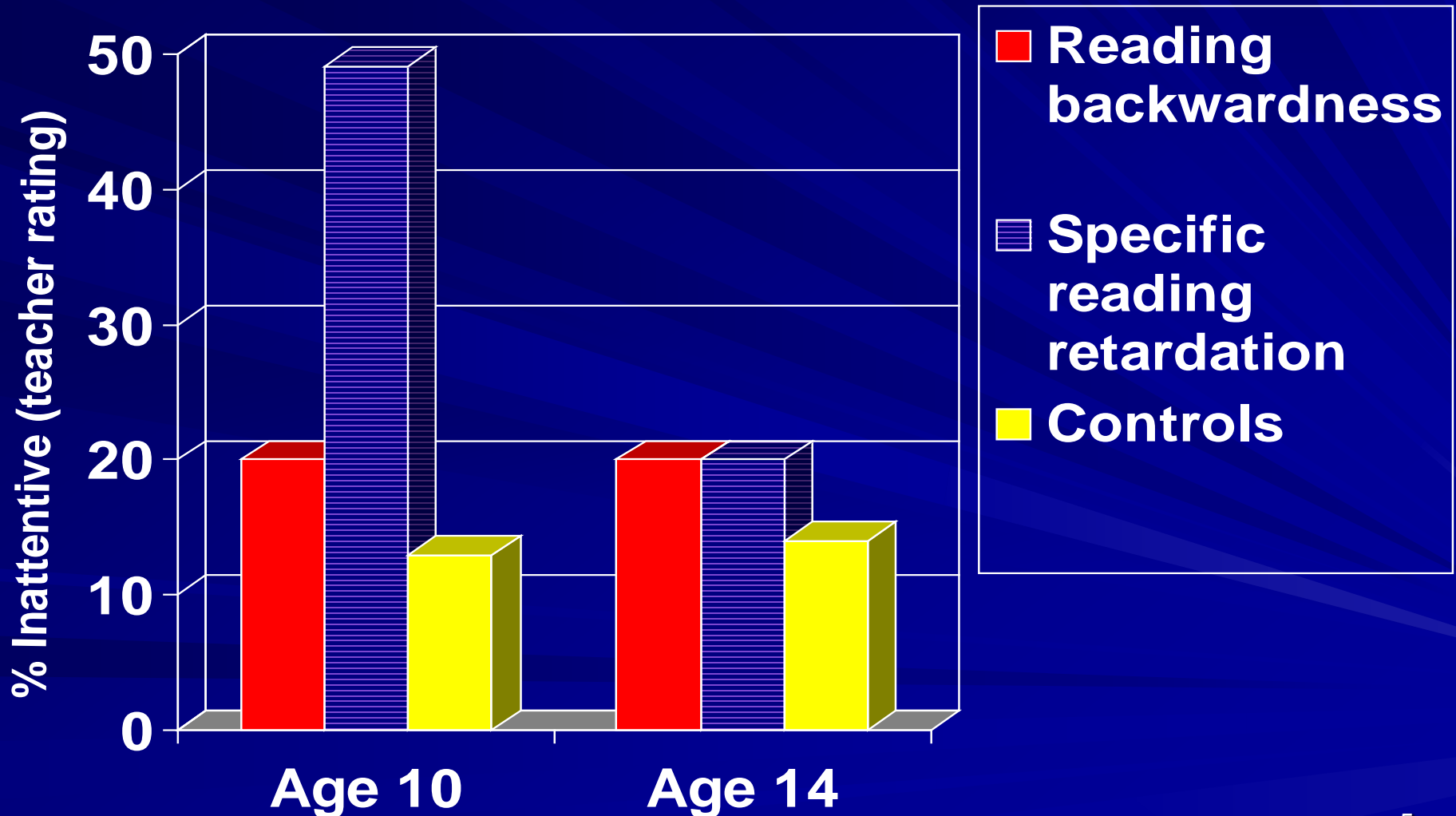


# SEVERE READING RETARDATION AND PSYCHIATRIC DISORDER AT AGE 10-11 YEARS ON THE ISLE OF WIGHT (GIRLS)

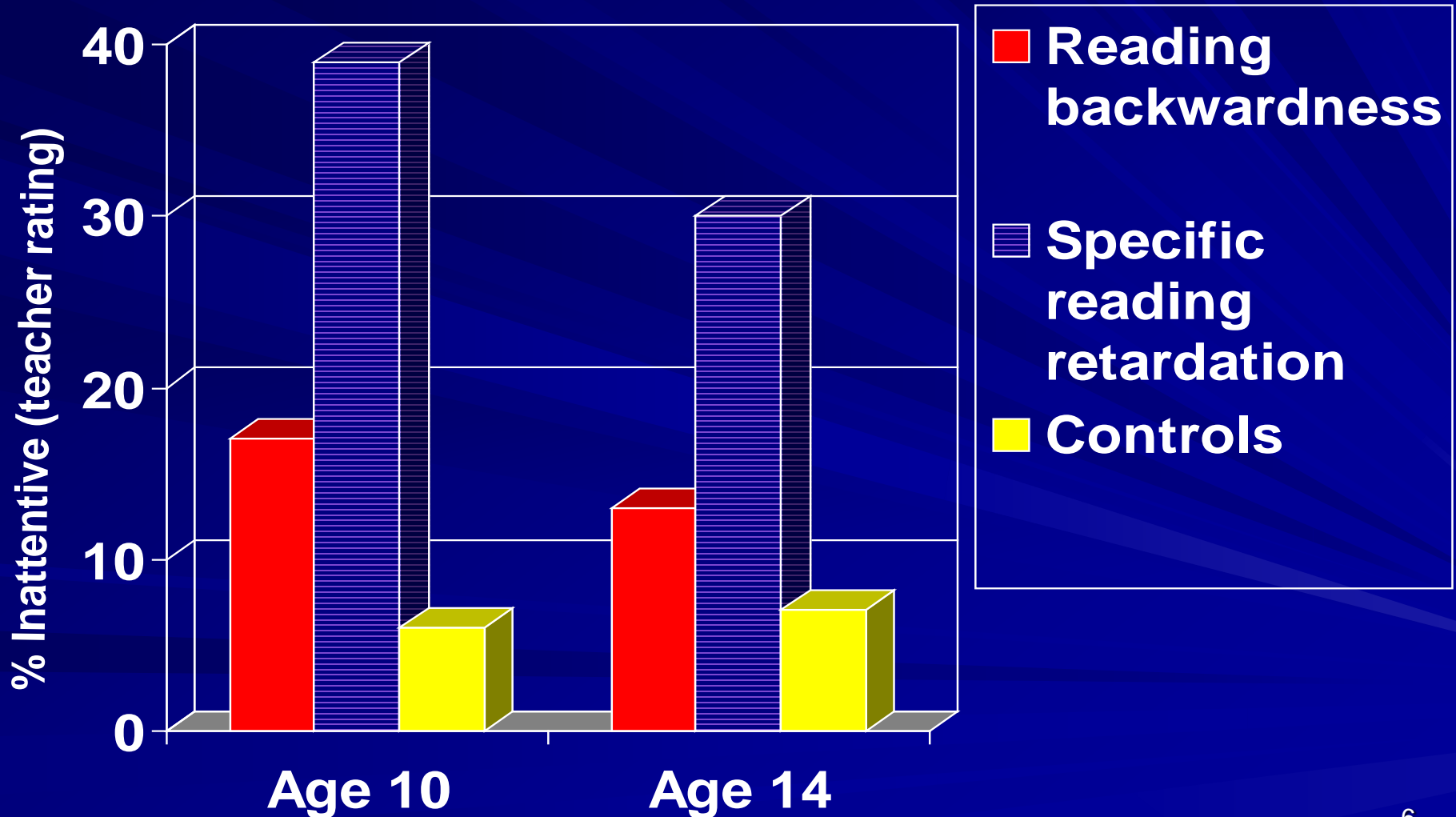
(from Rutter, Tizard & Whitmore, 1970)



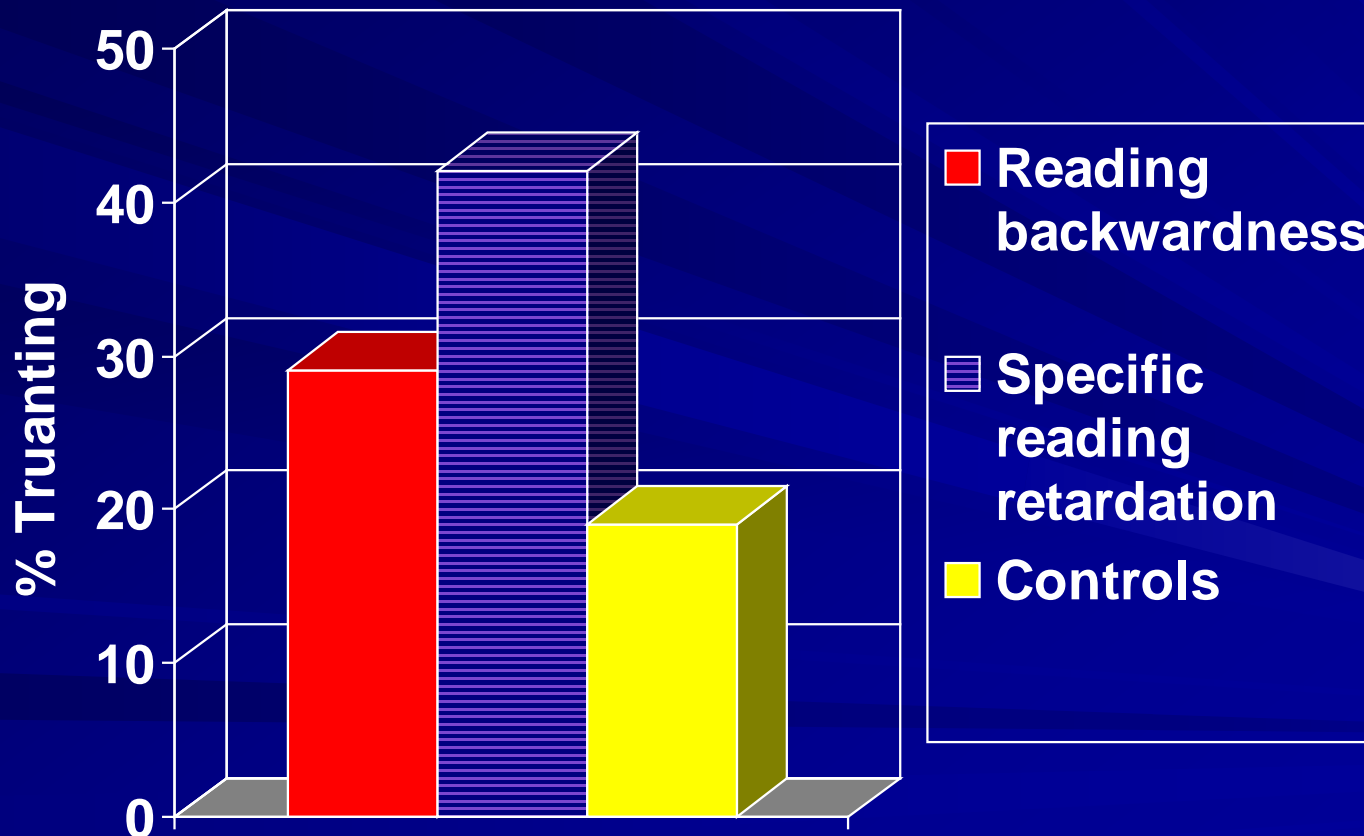
# READING DIFFICULTIES AND INATTENTION ON THE ISLE OF WIGHT (BOYS) (Maughan et al, 1996)



# READING DIFFICULTIES AND INATTENTION ON THE ISLE OF WIGHT (GIRLS) (Maughan et al, 1996)

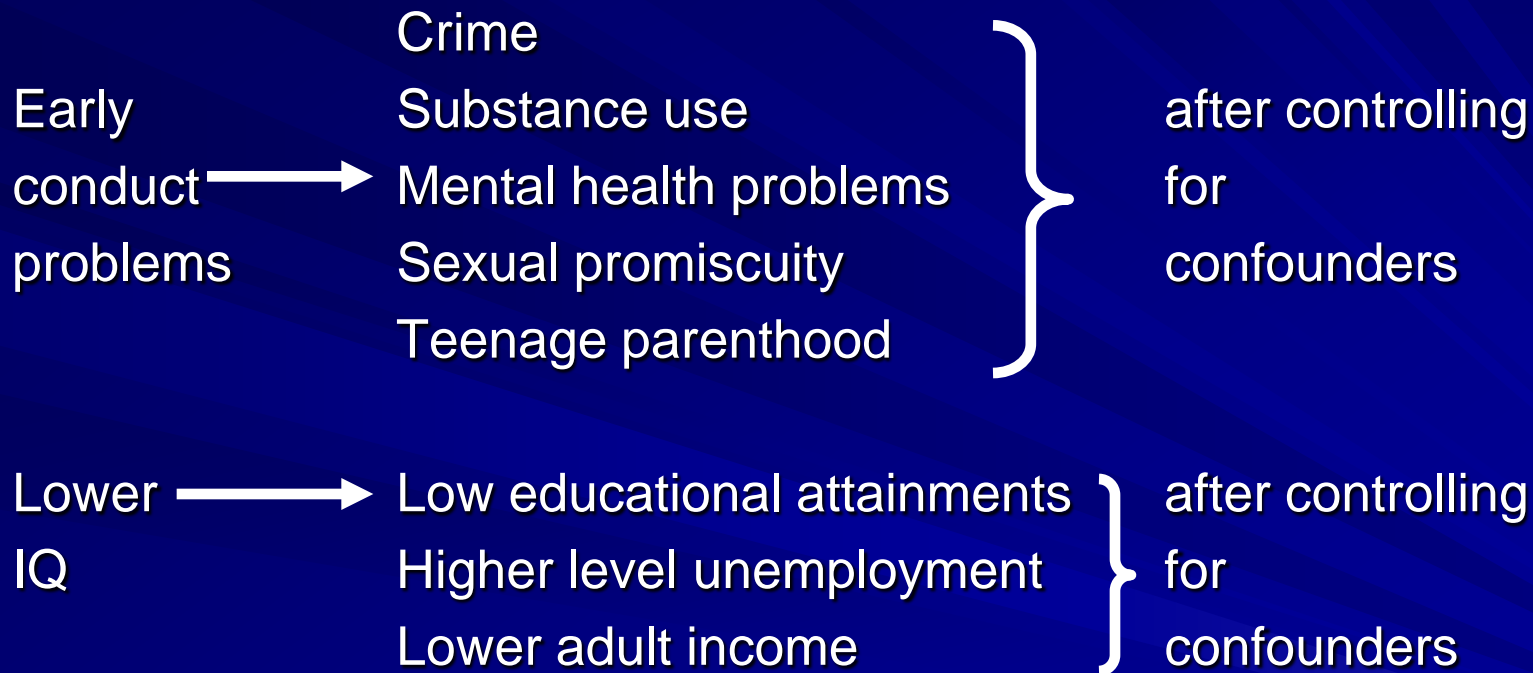


# READING DIFFICULTIES AND TRUANTING ON THE ISLE OF WIGHT AT 14 YEARS (Maughan et al, 1996)



# CONDUCT PROBLEMS, LOW IQ AND ADULT PSYCHOSOCIAL FUNCTIONING

(Fergusson, Horwood & Ridder, 2005)



But these two pathways relatively independent and associations only a consequence of associations in childhood between conduct problems and IQ

# LITERACY DIFFICULTIES AND ADHD/CONDUCT DISORDER

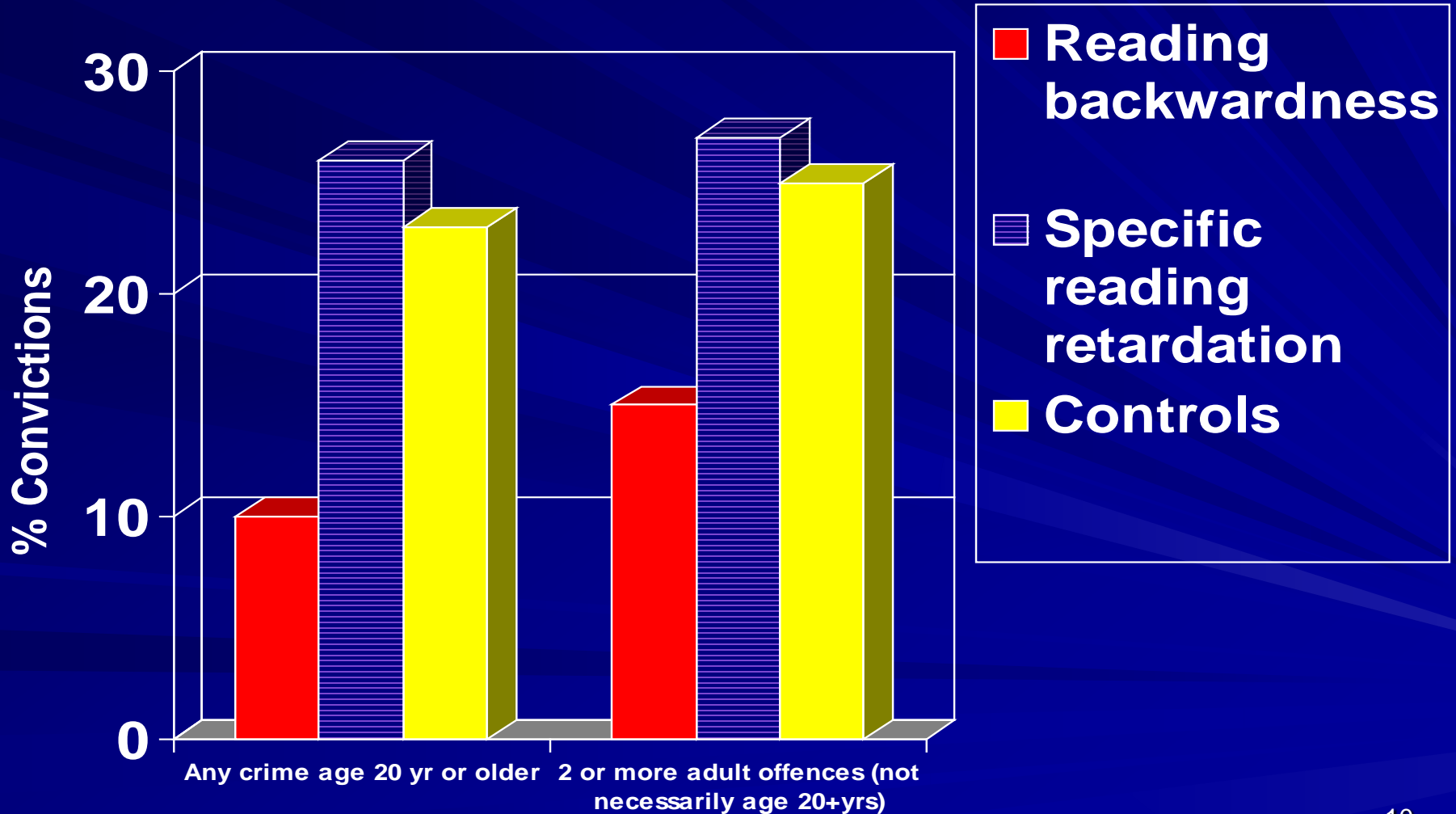
(Carroll, Maughan, Goodman & Meltzer, 2005)

- Specific reading difficulties associated with conduct problems

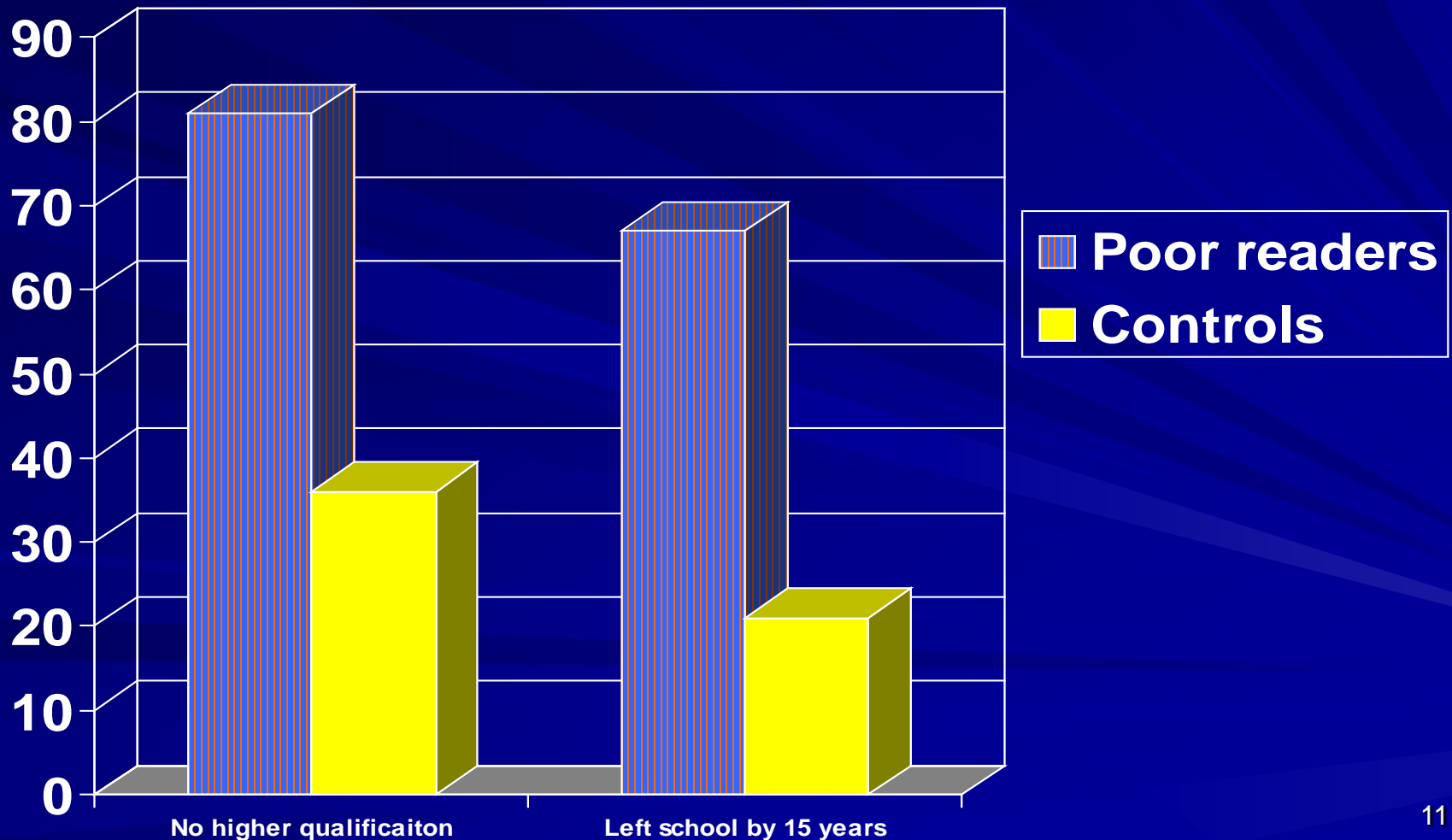
But

- This association largely mediated by inattention

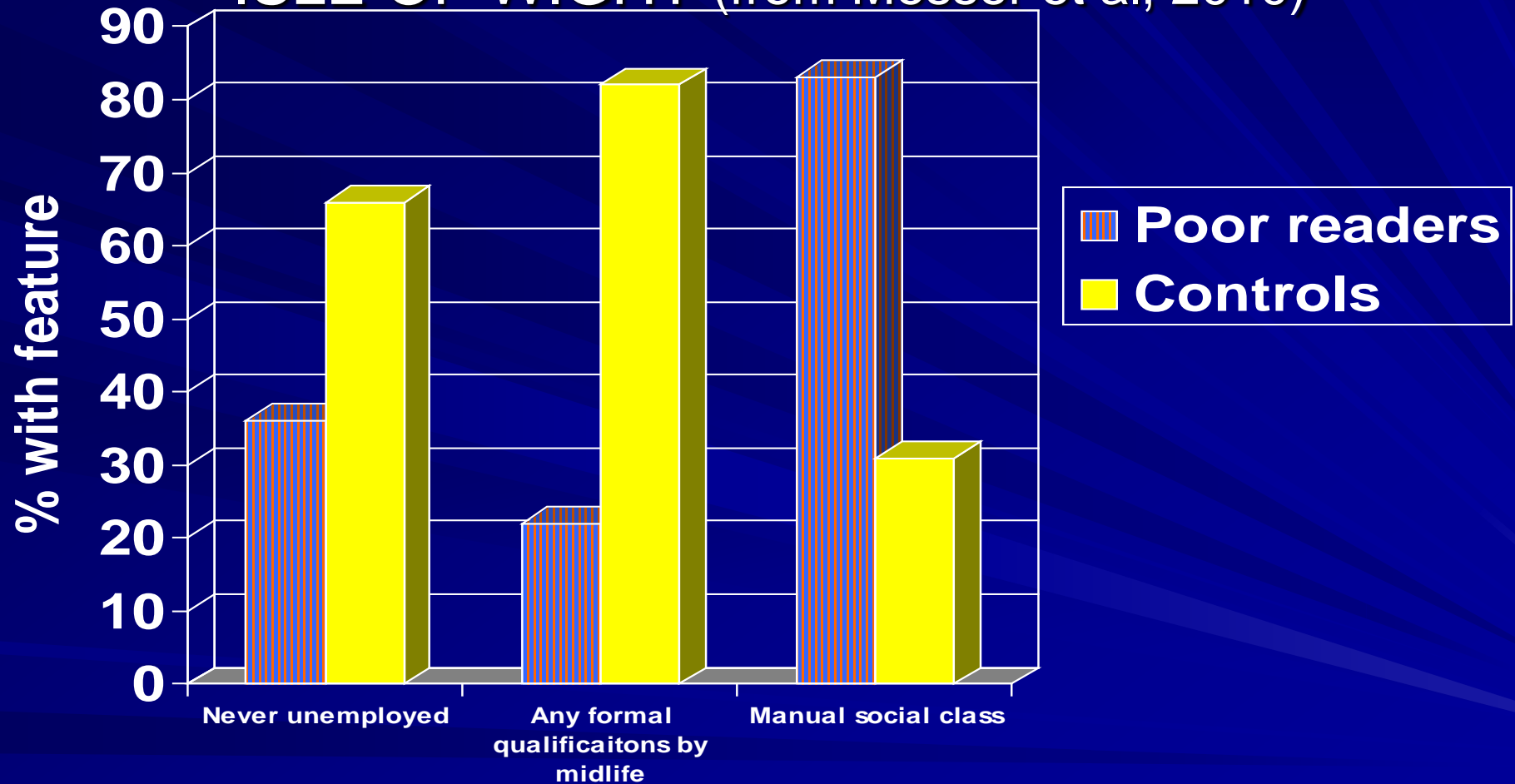
# READING DIFFICULTIES AND ADULT CRIME (Maughan et al, 1996)



# EDUCATIONAL ATTAINMENT BY AGE 44 YRS AND READING DIFFICULTIES IN CHILDOOD (Maughan et al, 2009)



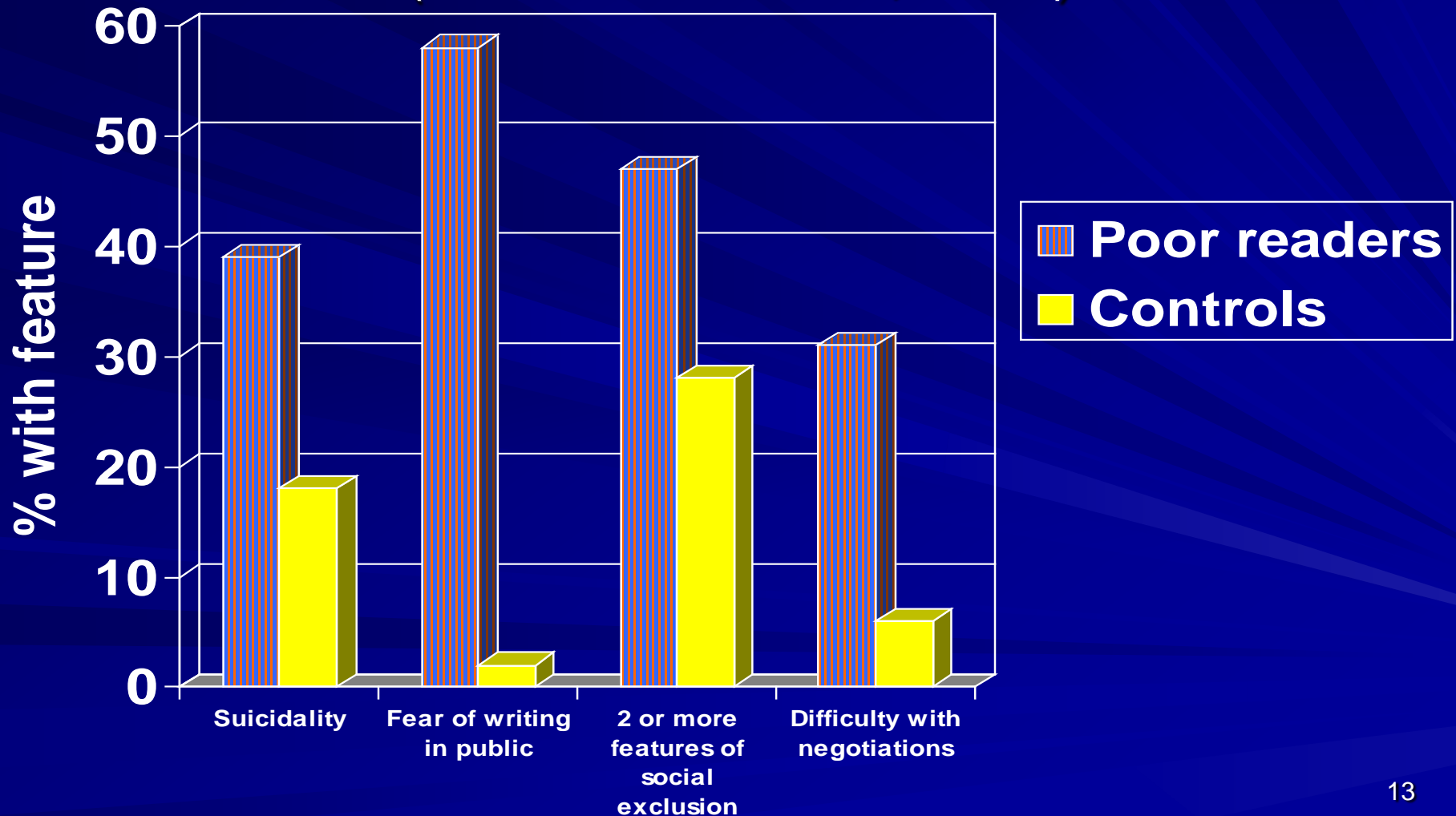
# QUALIFICATIONS AND WORK BY MID-40S IN POOR READERS AND CONTROLS FROM THE ISLE OF WIGHT (from Messer et al, 2010)



N.B. Social class significantly associated with outcomes in controls but **not** in poor readers

# SOCIAL AND AFFECTIVE OUTCOMES IN MID-40S IN POOR READERS AND CONTROLS FROM THE ISLE OF WIGHT

(from Messer et al, 2010)



# PSYCHOSOCIAL ADVERSITY PREDICTS BOTH READING DIFFICULTIES AND CONDUCT PROBLEMS

- Longitudinal analyses confirm the predictive effect

And

- Twin studies show that both genetic and environmental influences are involved

# CONCLUSIONS

- Both reading difficulties and low IQ are associated with an increased rate of conduct problems in childhood - But several processes seem to be operative
  1. In childhood, the associations seem to be strongly connected with inattentiveness. Possibly, the causal arrows run from ADHD to conduct problems and from ADHD to reading difficulties
  2. Reading difficulties strongly associated with truancy, and truancy, in turn, causes an increased risk of delinquency
  3. Reading difficulties show a very high level of persistence into adult life **YET**
  4. The association between poor reading and antisocial behaviour no longer seems to apply in adult life
  5. Adult crime predicted by childhood disruptive behaviour and **not** by reading difficulties

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