

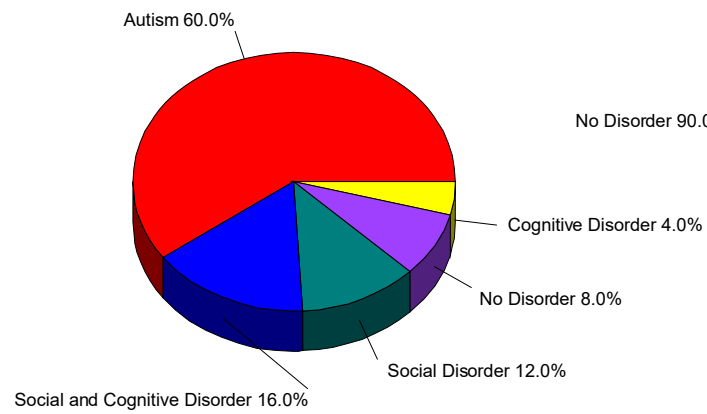
Complex Disease

- Hierarchy
- Coherence
- Emergence
- Development

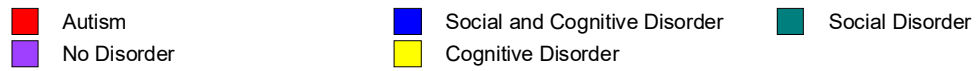
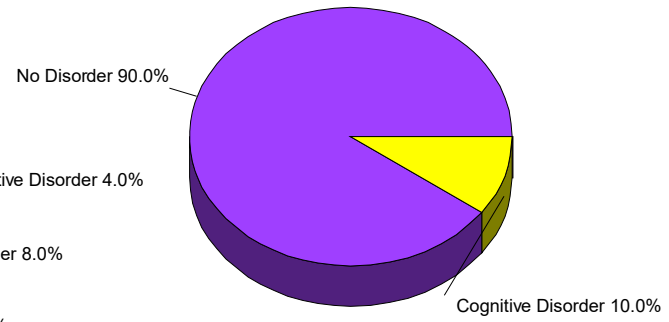
Challenges

- Non-deterministic

MZ Co-Twins



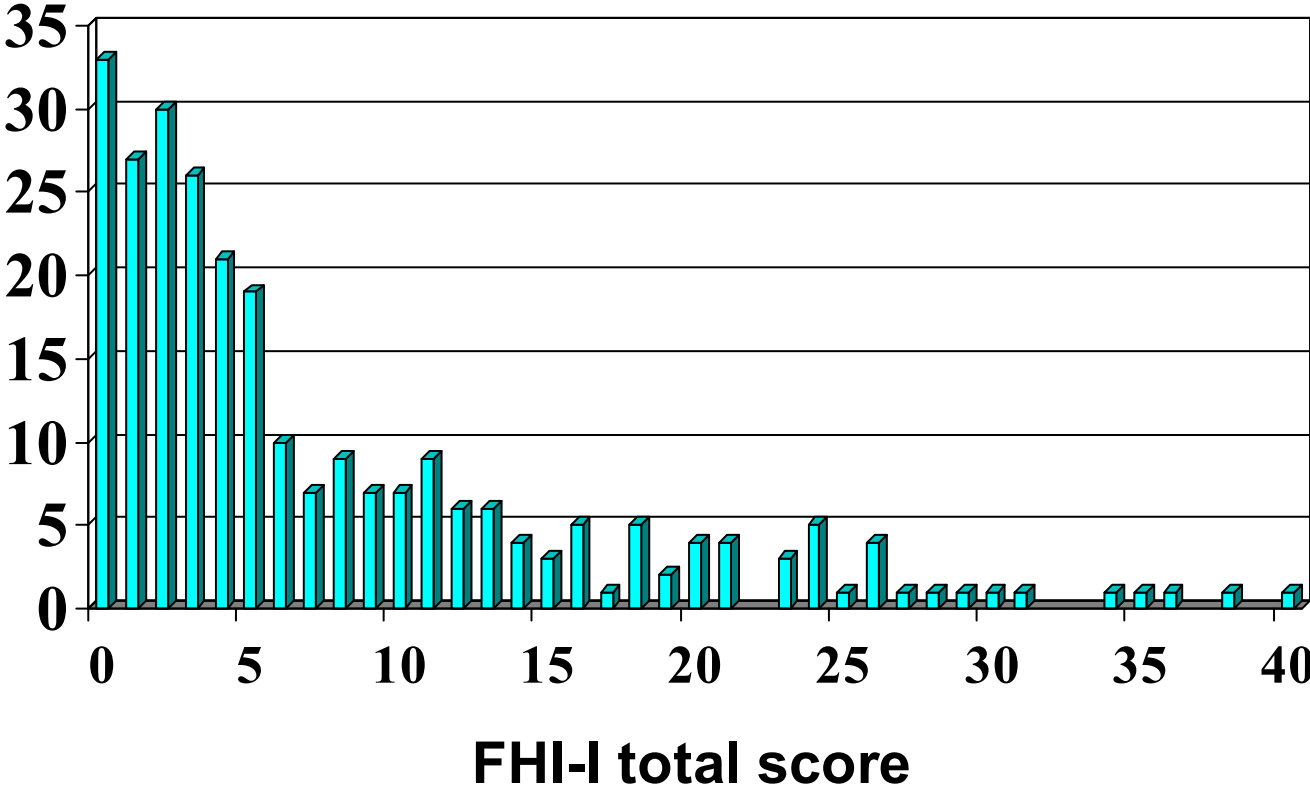
DZ Co-Twins



Challenges

- Non-deterministic
- Phenotype can be associated with very high IQ and extends to milder features in relatives

Distribution of adult FHI-I scores (mean = 7.4)



Challenges

- Non-deterministic
- Phenotype can be associated with very high IQ and extends to milder features in relatives
- Organisational hierarchy, not a reductionist model
- Environment operates at multiple levels
- Bi-directional effects
- Performance not necessarily a guide to mechanism

Approaches

- Have to investigate all levels
- Currently Postmortem data are inadequate
- Need to understand the hierarchy at defined points on the spectrum of expression
- Capitalise on changes associated with early-intervention