Childhood maltreatment & psychosis

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Background

- Double-bind theory (Bateson et al., 1956)
- Overprotection or rejection by mother (Rosen, 1953)
- Intolerable demands by family

(Laing & Esterson, 1964)

- Skewed family milieu (Lidz et al., 1965)
 - > Family-blaming culture
 - Backlash by carers' groups (NAMI)
 - Rise of biological psychiatry





How do we define childhood maltreatment?

Broader concept of trauma

- Types of childhood trauma (<17)
 - Sexual abuse
 - Physical abuse
 - Neglect
 - Emotional/psychological abuse
 - Bullying by peers or siblings
 - Separation/death of parent
 - Witnessing domestic violence...
 - Living with parent(s) with SMI
 - Exposure to war, natural disasters, serious accidents etc







Sexual abuse

- Not limited to household members
- Excludes willing contact with someone of similar age force and age important
- Any sexual contact < 10 considered abuse but less clear cut in teenagers
- Sexual contact with family members, teachers, adult family friends included
- Flashing excluded if by a stranger but included if known person



Physical abuse

- Members of household only
- Single as well as repeated incidents
- Injury caused/likely
- Usually physical contact but threats with weapon are included – not just verbal
- Doesn't include smacking on bottom
- Peers rated under bullying



Neglect

- Amount of neglect shown by parents in terms of providing for the child's material, social, educational and emotional needs
- Examples include: child couldn't go to parent if upset, child was not fed and clothed adequately, parents did not attend to child when ill, no interest taken in school work or who child's friends were, parents forgot and did not celebrate child's birthday



Emotional abuse

- Members of household only
- Dislike, irritation and coldness shown by parent to child
- Parent makes highly critical or rejecting remarks towards or about child
- Scapegoating or dislike of child in relation to other siblings
- Negative interaction, violence and rejection



Psychological abuse

- Mainly household members but other adults can be included – teacher etc
- Cruelty with potential to damage social, cognitive & emotional development
- Main types: humiliation, corruption, terrorising, deprivation of basic needs, cognitive disorientation, inflicting distress, extreme rejection & emotional blackmail
- Severity rating based on frequency & number of types – potential for damage more important than actual injury



Prevalence of childhood trauma

- Rates across the world <18yrs:
 - 1-2% contact sexual abuse
 - 5-11% physical abuse
 - 4-5% neglect
- UK rates for 2009 < 18 yrs:
 - 1-7% physical abuse
 - 1-11% sexual abuse
- Worldwide gender differences:
 - Sexual: 20% women, 5-10% men (Finkelhor, 1994)

Kessler et al. (2010) British Journal of Psychiatry, 197, 378-385

> Radford et al (2011) NSPCC

Revictimisation

- Children exposed to 1 form of abuse are often repeatedly exposed to the same form of abuse
- A small proportion will be exposed to a range of other forms of abuse
 they have the worst outcomes
- Abused children are also at greater risk of (re)victimisation in adulthood

Turner et al. (2010)

Issues related to measurement of childhood maltreatment

How is it measured? Social services'/court/police records Child reports of current trauma Adult retrospective reports Self-report questionnaires or interviews

Parent/family reports

Family observation

Researcher

General recall problems

- Normal forgetting
- Infantile amnesia
- Traumatic amnesia
- Rehearsal & interference





Psychosis-specific problems

They imagine things (Young et al., 2001)

Cognitively impaired (Saykin et al., 1991)

Delusional beliefs about past (Howard, 1993)

Out of touch with reality (Lysaker et al., 2005)

Depressed mood impairs recall (Wolfkind & Coleman, 1983)

Reliability & validity

Good concurrent validity

- CTQ: physical abuse $r_s = 0.77$, p<0.01; sexual abuse $r_s = 0.67$, p<0.01
- PBI: antipathy: $r_s = 0.350 0.737$, p<0.01; neglect: $r_s = 0.688 0.715$, p<0.01

Reasonable convergent validity

- Case-notes: specificity 97.9% sexual abuse, 100% physical abuse

Moderate test-retest reliability

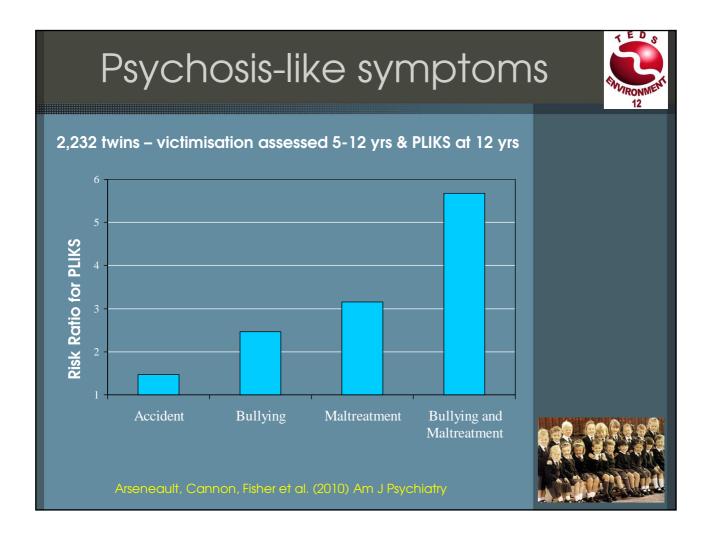
- 7 **years:** sexual: *k*=0.590, *p*<0.01; physical: *k*=0.634, *p*<0.01; antipathy: *k*=0.492, *p*<0.01; neglect: *k*=0.432, *p*<0.05

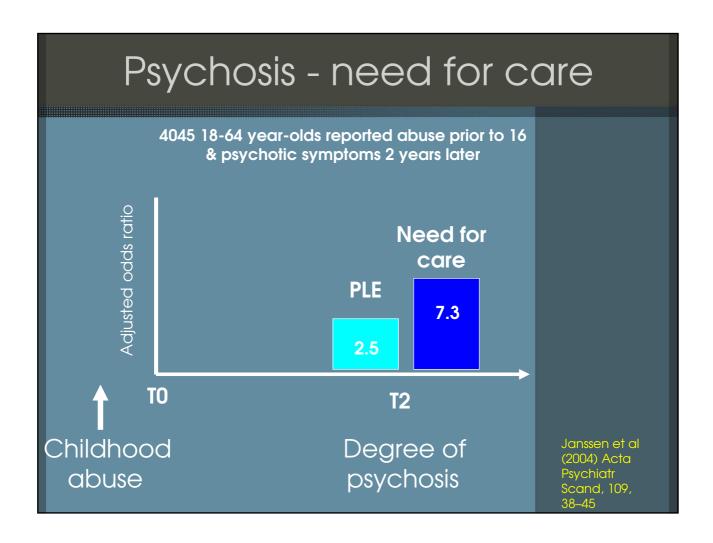
No measurable symptom impact

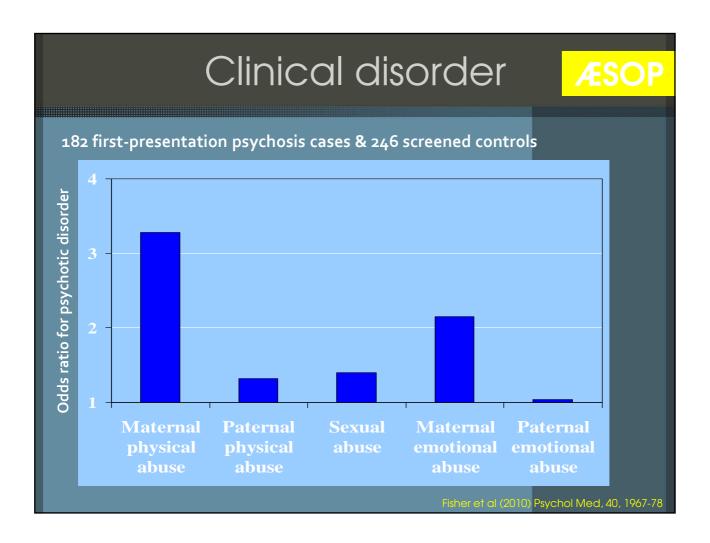
 no significant differences in abuse rates in terms of severity or depression & no clear overlap with symptom content

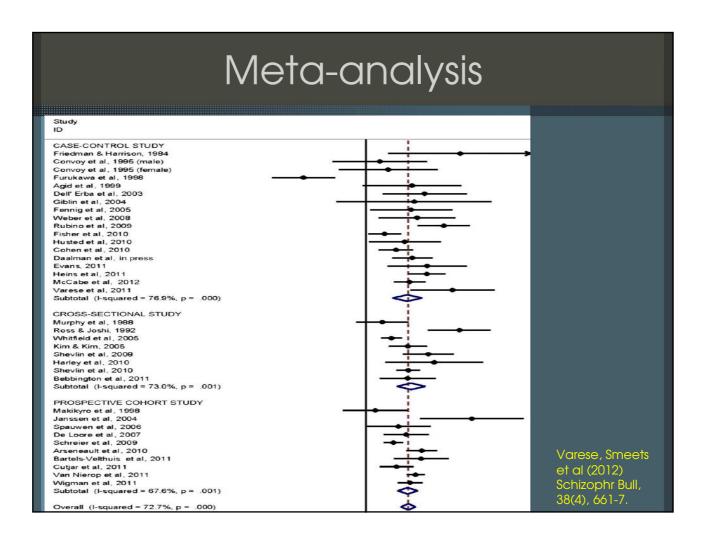
Fisher et al (2011) Schizophrenia Bulletin, 37(3), 546-553.

Associations between childhood maltreatment & psychosis









What is underlying the childhood maltreatment – psychosis association?

Mechanisms? Direct Garety et al (2007) Psychol Med 37(10), 1377-91 > Traumatic reaction, re-experiencing, dissociation Indirect Biological/genetic Dysregulation of HPA axis Stunted brain development Genetic sensitivity Behavioural Social isolation Substance misuse Psychological/cognitive Hostile attributions/hypervigilance to threat Negative beliefs about self/others • Externalising bias for interpersonal & own experiences Cognitive impairment/difficulties Re-victimisation Other psychopathology Depression PTSD Schäfer & Fisher (2011) Social anxiety Dialogues Clin Neurosci, 13 (3), 360-5. Anti-social behaviour

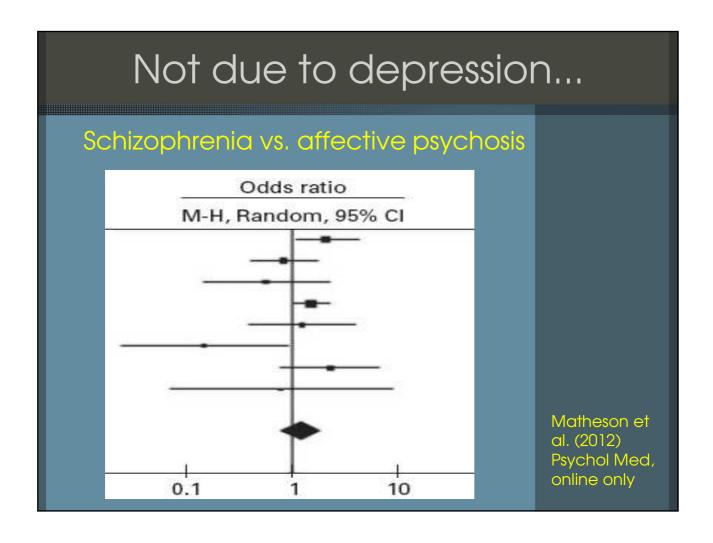


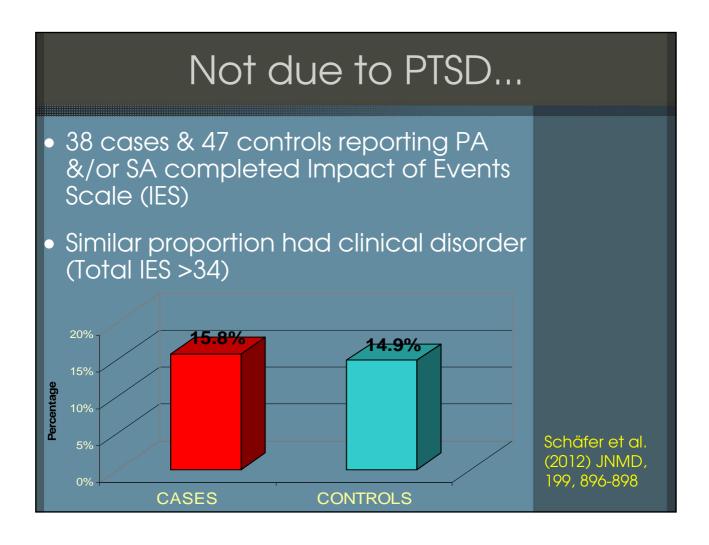
Mental health problems

- Childhood trauma shown to be associated with a range of mental health difficulties:
 - ~2x greater risk for any SMI
 - Depression (Bifulco et al., 1991)
 - PTSD (Breslau et al., 1998)
 - Substance misuse (Kendler et al., 2000)
 - Suicidality (Christoffersen et al., 2003)
 - Personality disorder (Zanarini et al., 1997)

... no specificity?

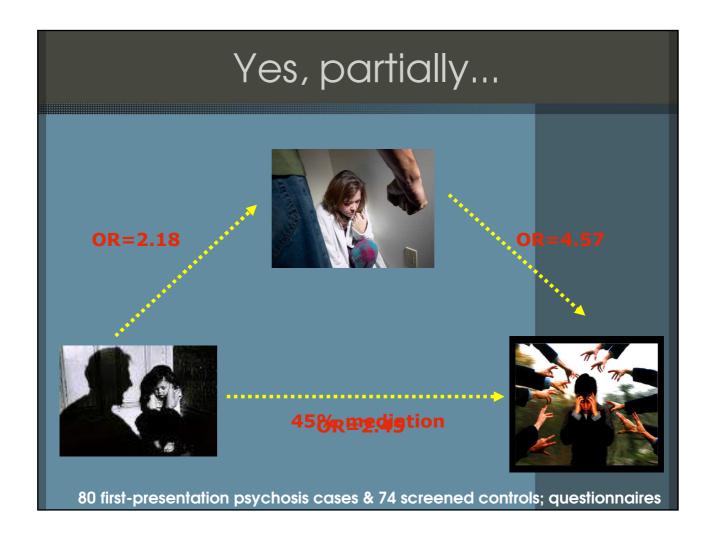
Kessler et al. (2010) British Journal of Psychiatry, 197, 378-385





Due to revictimisation?

- Individuals abused as children more likely to be victimised in adulthood (Desai et al., 2002)
- Adult trauma linked to psychosis (Bebbington et al., 1993)
- Few studies looked at whether adult trauma weakens association between CT & MH

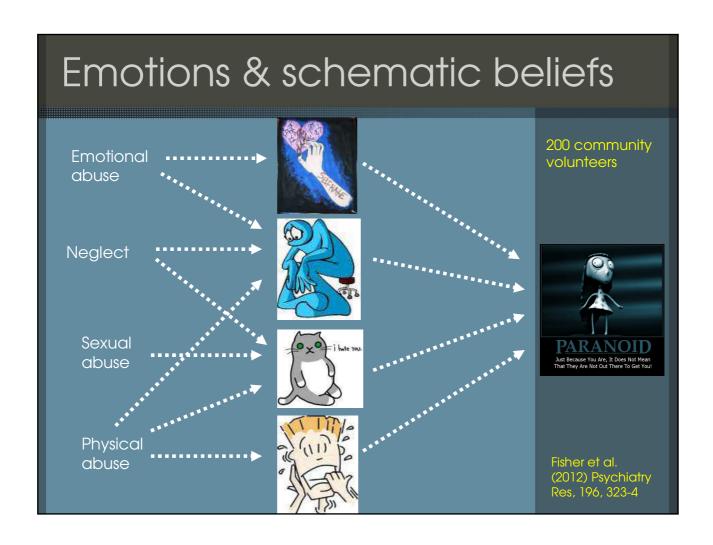


Mechanisms - behavioural

- Social withdrawal to avoid potential abuse (Kaufman & Cicchetti, 1989)
- Rejected by peers (Salzinger et al., 1993)
- Greater substance misuse (Zlotnick et al., 2004)

Mechanisms - psychological

- Negative beliefs about the self
 & others (Gracie et al., 2007)
- Hostile attributions about the intentions of others (Dodge et al., 1986)
- Disrupted attachments (Cole & Putnam, 1992)



Are effects operating via affective &/or cognitive mechanisms?

ALSPAC birth cohort

Avon Longitudinal Study of Parents & Children

 14,062 children born to residents of former Avon Health Authority between
 1st April 1991 – 31st December 1992



- Leakage sample of 548 live births added
- 3 triplets & 1 quadruplet pregnancy removed + twin with lowest birth weight from 201 pairs (to avoid non-independence)
- Postal questionnaires, face-to-face interviews/assessments with children 7+ yrs

Assessment of trauma

- Mother reports via postal questionnaire from birth – 6 years:
 - Emotional/physical cruelty to mother from partner 8/21/33/47/61/73 months
- Bullying Bullying and Friendship Interview Schedule with child at 8 years







Potential mediators

- Locus of control child assessed at 8 with shortened version of the Nowicki-Strickland Internal-External scale – higher=external
- Self esteem child assessed at 8 with shortened form of Harter's Self Perception Profile for Children – posted red/blue statements into post box labelled sort of/really true for me
- Anxiety Mother completed: DAWBA interview when child aged 10 years
- Depression Mother completed: Short Moods & Feelings Questionnaire when child aged 9 & 11 years

Assessment of PLEs

 Children attended semi-structured interview at mean age of 12.9 years

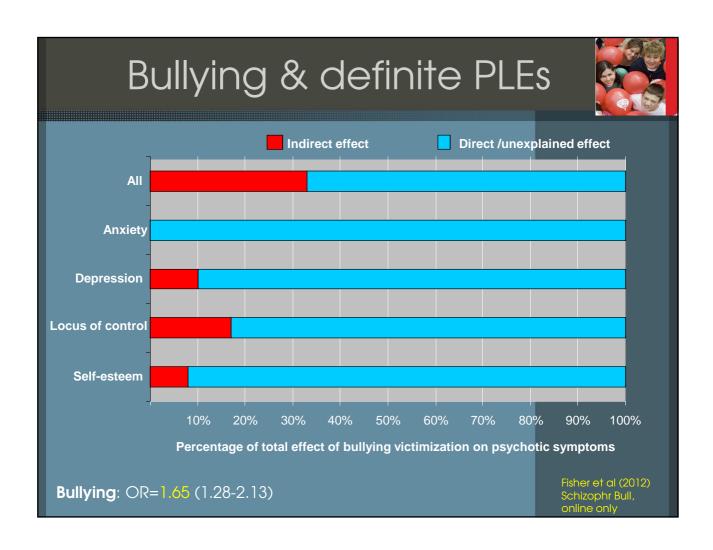
Kappa = .72

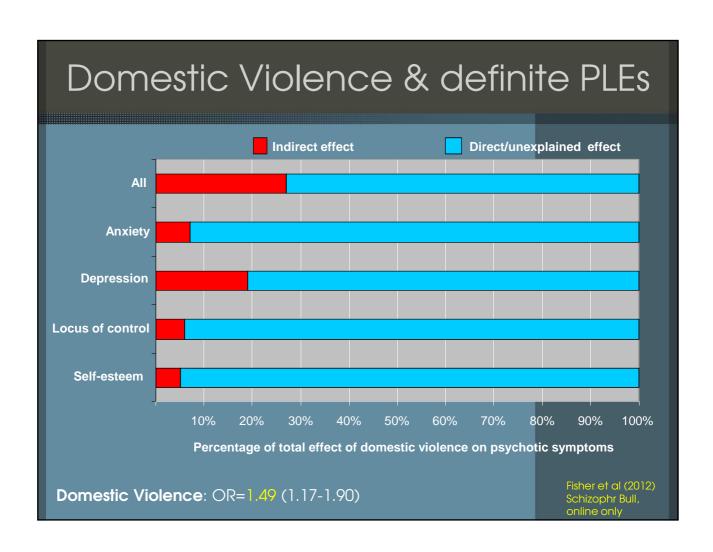
- 12 core questions for past 6 months occurrence of hallucinations, delusions & thought interference
- Qs derived from DISC-IV & SCAN & all items defined in accordance with SCAN glossary
- Cross-questioning & probing for presence/absence
- Ratings of none/suspected/definite
- Rated down if unclear & credible example required for definitely present

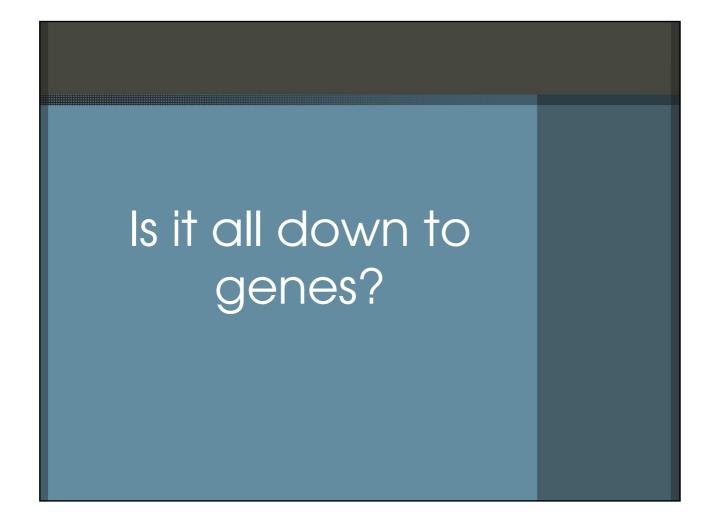


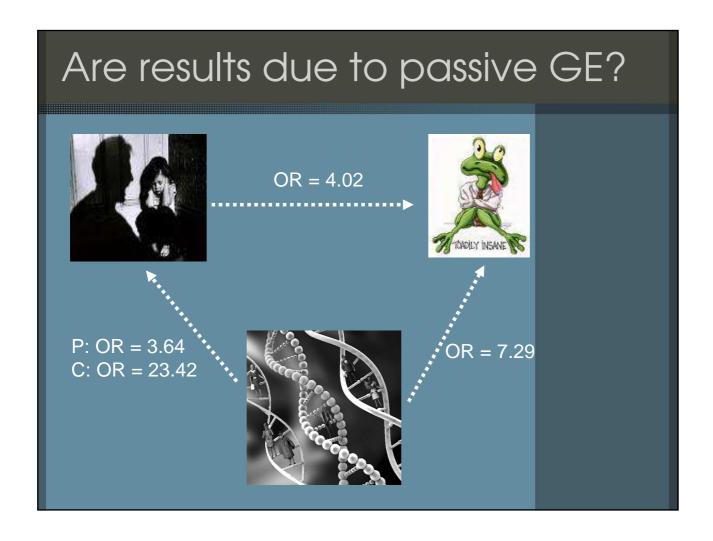
Sample

- 6992/14340 children alive at 1 year completed PLIKSi
 - > 50.9% female, 3.6% non-White ethnicity
 - > >female, > White, > married mothers, < family adversity, > IQ, > EA, > PA than non-completers
 - ➤ 11.3% suspected/definite PLEs not attributable to sleep, fever or substance use
 - > 4.7% definite PLEs without attributions

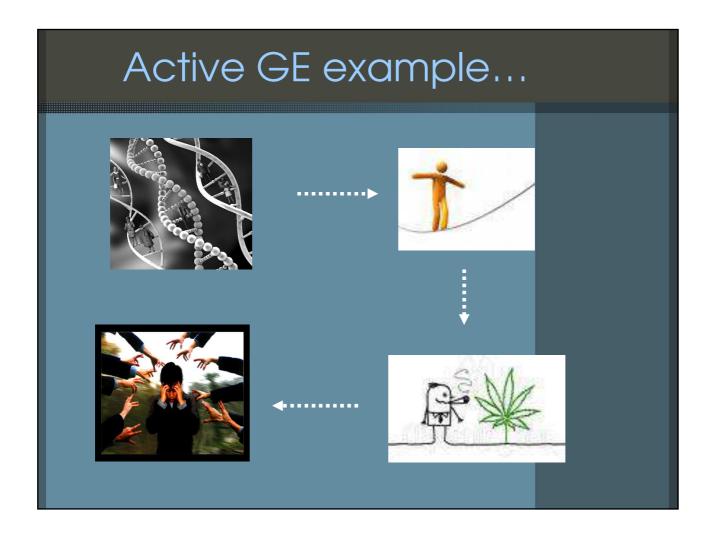


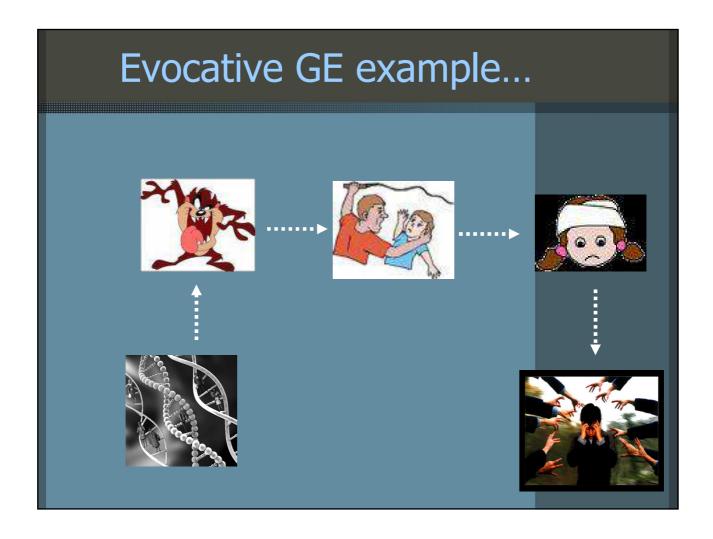


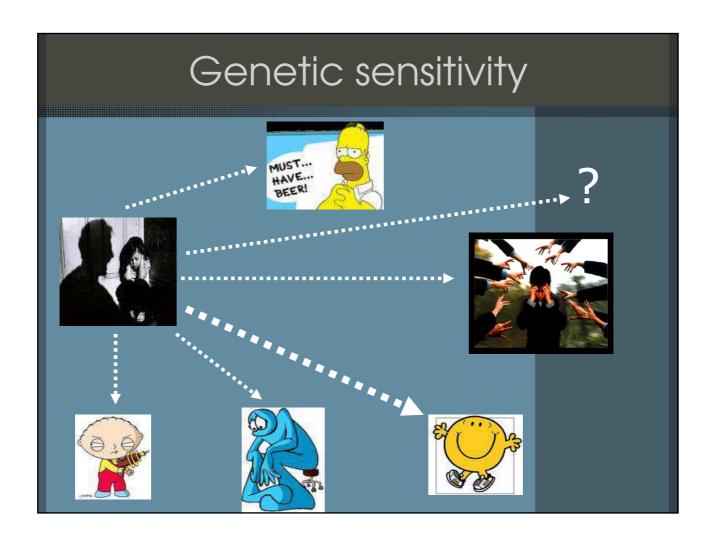












No...

No parental psychosis x MPA

(Irtest $X^2=1.31$, p=0.252)

or family mental illness x MPA

(Irtest X^2 =0.48, p=0.486)

Clinical implications

- Clinicians should routinely enquire about childhood trauma (NHS confederation, 2008)
- Specific interventions for trauma CBT...
- Take into account co-morbidity
- Problems with engagement, family involvement in care, ongoing abuse to other relatives, revictimisation and/or abusive to others, self-harm...



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