



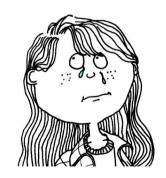


Unmet Needs for Prevention and Intervention in Three Examples: Prematurity, Infant Regulatory Problems and Bullying

Dieter Wolke PhD Dr rer nat h.c.















Overview or the "Freakonomics" of Common Problems

 Prematurity – Long term effects and changing Demography



- Infant Regulatory Problems: Crying, Sleeping and Feeding
- Bullying: The long term impact of peer bullying
- Why it is important to do something about "normal" problems

Overlooked Long term Effects

1. Preterm Birth

- Immaturity: Organ Development
- Complications





Immediate

- Parents
- PTS

Longterm

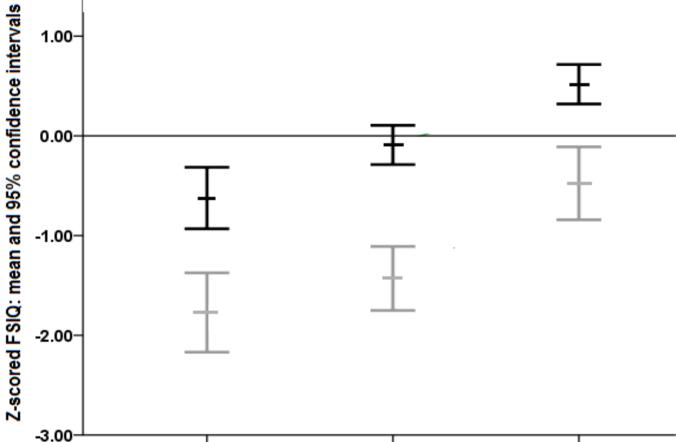
• Preterm Phenotype





Social Class and IQ at 26 years of Age







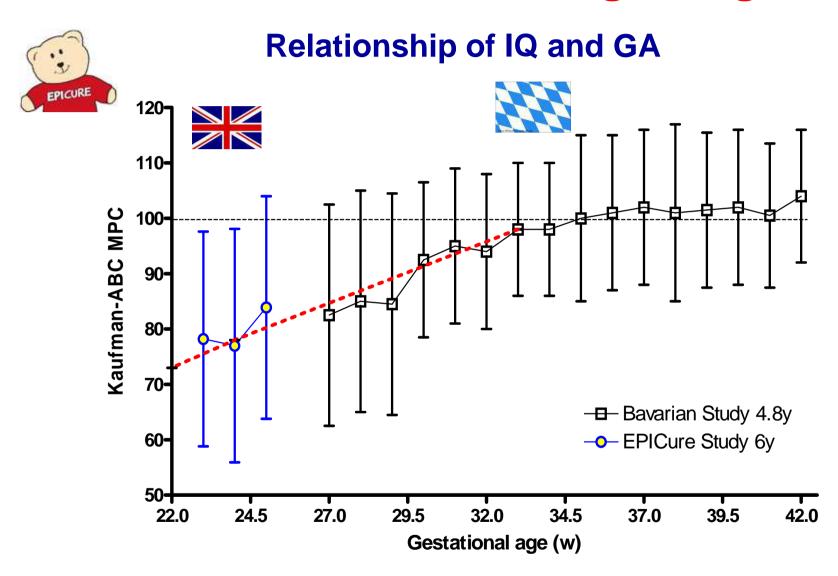
Eryigit Madzwamuse, S., Baumann, N., Jaekel, J., Bartmann, P., & Wolke, D. (2014). Neuro-cognitive performance of very preterm or very low birth weight adults at 26 years. *Journal of Child Psychology and Psychiatry, n/a-n/a.*

Family SES - low

Family SES - middle

Family SES - high

The Whole Gestation Range: Cognitive



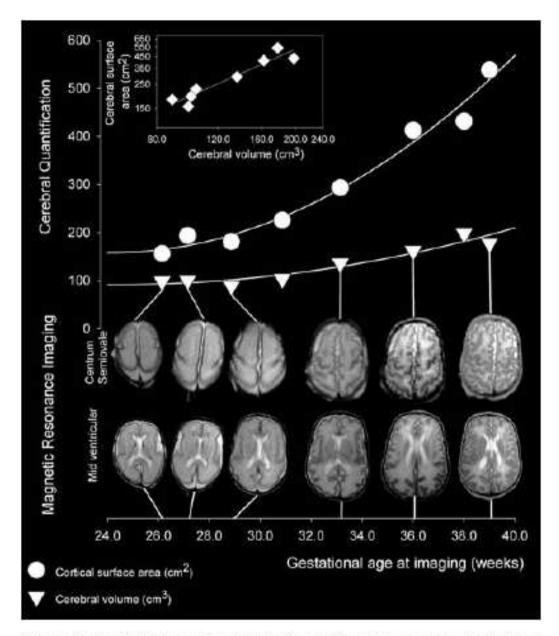


Figure 2. Serial MR Imaging of Brain Growth in a Normal Female Preterm Infant



How the brain develops from 24 weeks gestation to term

40% less cortical folding than intrauterine



Kapellou et al.,(2006) PLos Medicine, 2006, 3(8), e264





Building a different Brain

Cerebral Cortex Advance Access published June 16, 2014

Cerebral Cortex doi:10.1093/cercor/bhu133

Correspondence Between Aberrant Intrinsic Network Connectivity and Gray-Matter Volume in the Ventral Brain of Preterm Born Adults

Josef G. Bäuml^{1,3,†}, Marcel Daamen^{4,5,†}, Chun Meng^{1,3}, Julia Neitzel^{1,3}, Lukas Scheef⁴, Julia Jaekel^{6,8}, Barbara Busch⁵, Nicole Baumann⁶, Peter Bartmann⁵, Dieter Wolke^{6,7}, Henning Boecker⁴, Afra M. Wohlschläger^{1,3} and Christian Sorg^{1,2,3}



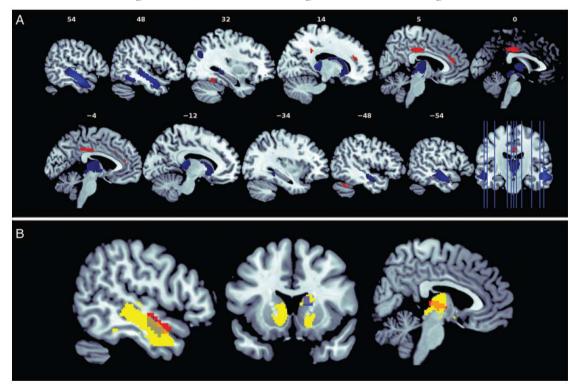
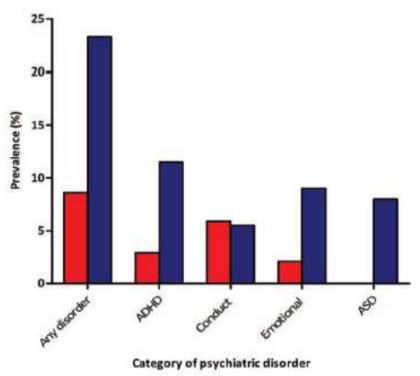


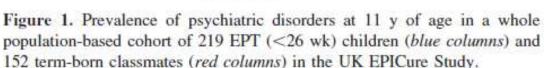
Figure 2. Aberrant gray matter in preterm born adults revealed by voxel-based morphometry overlaps with aberrant intrinsic functional connectivity in the ventral brain. (4) Based on structural MRI, differences in VBM were calculated by a two-sample t-test thresholded at P < 0.05, FWE-corrected for multiple comparisons, cluster extent > 20 voxels (blue: PT < FT; red: PT > FT); White numbers on top of each slice represent the x-coordinates in MNI space (MNI, Montreal Neurological Institute). (B) Overlapping VBM and iFC changes (see Fig. 1). Networks with overlapping iFC and VBM changes are the thalamus network, basal ganglia network, right ventral attention, and salience network II of Figure 1. Aberrant iFC is presented by blue (PT < FT) and red (PT > FT), aberrant VBM by yellow (FT < PT) clusters.





Psychiatric diagnosis: Childhood/ Adolescence







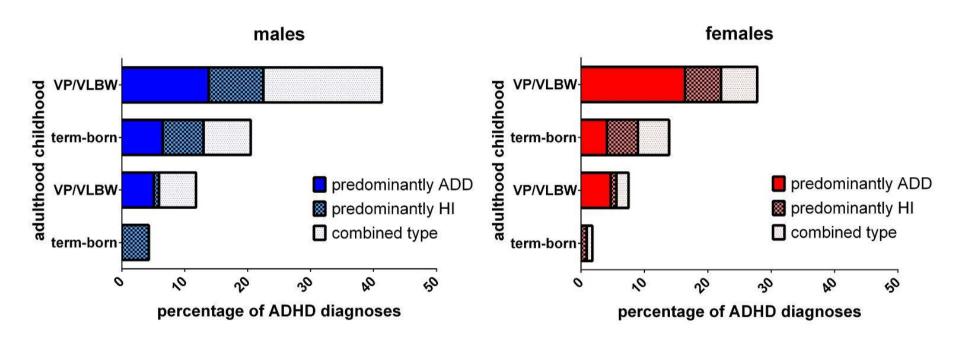


Johnson, S., Hollis, C., Kochhar, P., Hennessy, E., Wolke, D., & Marlow, N. (2010). Psychiatric Disorders in Extremely Preterm Children: Longitudinal Finding at Age 11 Years in the EPICure Study. [doi: DOI: 10.1016/j.jaac.2010.02.002]. *Journal of the American Academy of Child & Adolescent Psychiatry*, 49(5), 453-463.e451.





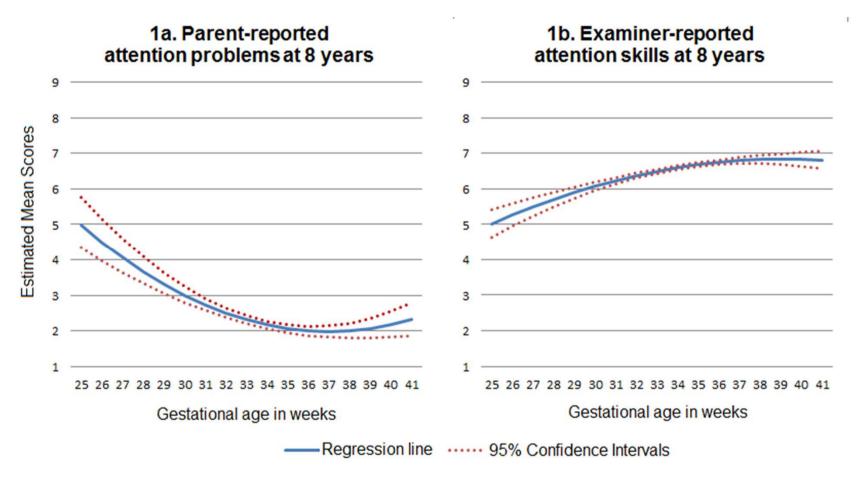
ADHD diagnoses in Childhood and Adulthood





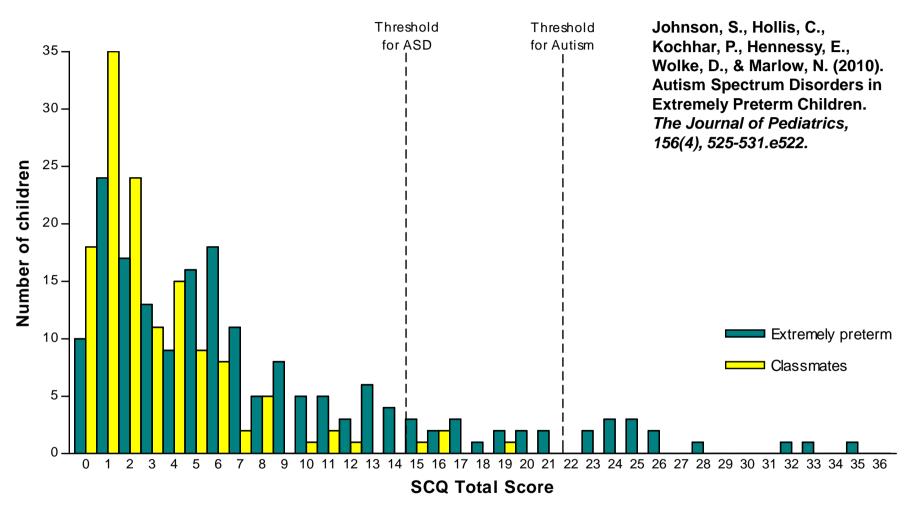


Attention Problems/Skills across the Gestation Spectrum





Frequency distribution of SCQ Autism scores

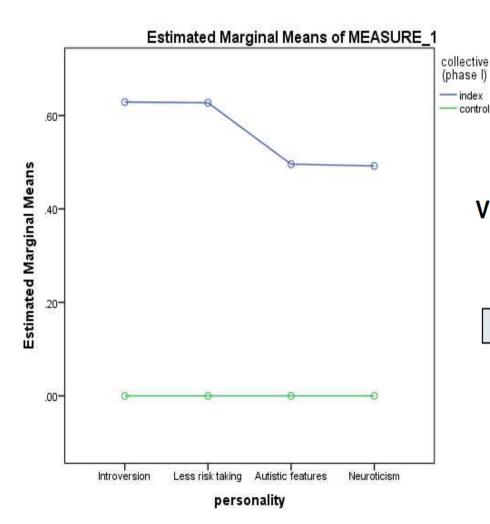


Extremely preterm children were 6 times more likely to have ASD than classmates (OR 6.3, 95% Cl 2.1 to 18.3).



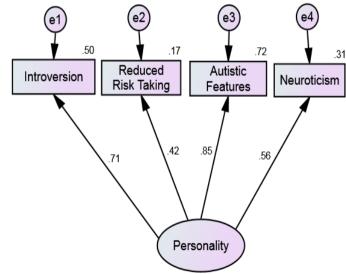


Personality Profile of VP/VLBW





VP/VLBW





How does VP/VLBW birth affect "real" life outcomes?

- Less Risk Taking and Crime
- Lower Wealth
- Poor Social Relationships

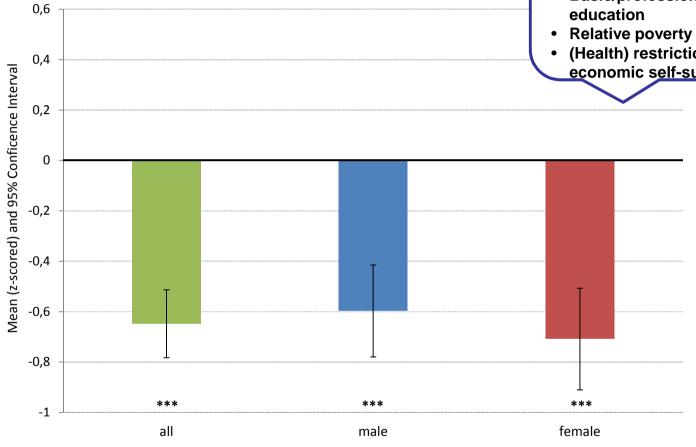




Wealth

Main contributing problems:

- Low income
- Unemployment
- No own home
- Basic/profession oriented education
- (Health) restrictions: occupation, economic self-sufficiency



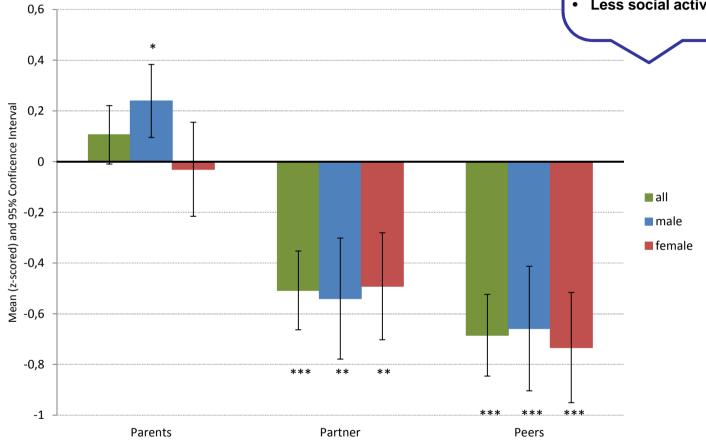




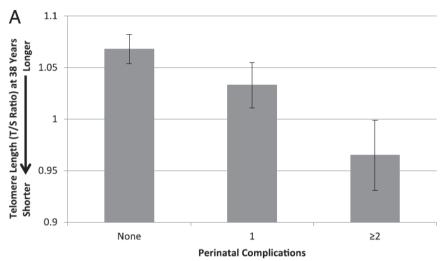
Social Functioning (subscales) Parent, Partner and Peer Relationships

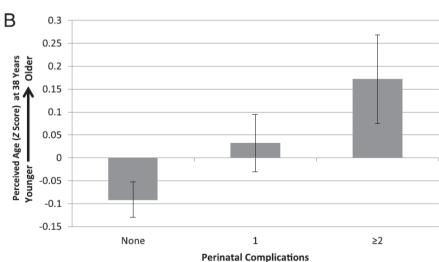
Main contributing problems:

- Less romantic/sexual relationships
- No best friend/confidante
- Problems making/keeping friends
- **Contact & support of friends**
- Being bullied
- Less social activities



Perinatal Complications and Ageing



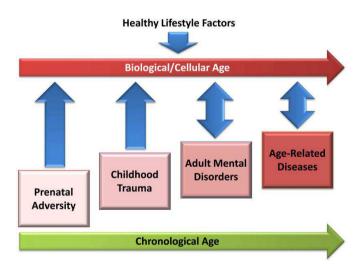


PEDIATRICS OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

Perinatal Complications and Aging Indicators by Midlife

Idan Shalev, Avshalom Caspi, Antony Ambler, Daniel W. Belsky, Simon Chapple, Harvey Jay Cohen, Salomon Israel, Richie Poulton, Sandhya Ramrakha, Christine D. Rivera, Karen Sugden, Benjamin Williams, Dieter Wolke and Terrie E. Moffitt Pediatrics; originally published online October 27, 2014;

DOI: 10.1542/peds.2014-1669



Conclusions and Implications

 VP/VLBW have a characteristics phenotype relating to cognitive problems, personality, attention, mental health, risk taking and social relationships

Follow-up Care

Doyle et al. BMC Pediatrics 2014, **14**:279 http://www.biomedcentral.com/1471-2431/14/279



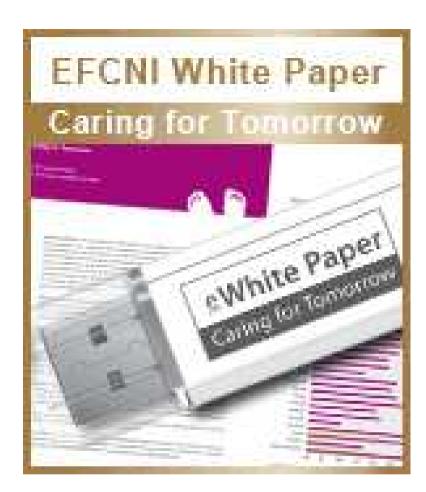
COMMENTARY

Open Access

Long term follow up of high risk children: who, why and how?

Lex W Doyle^{1,2,3,4,19*}, Peter J Anderson^{2,3,4}, Malcolm Battin⁵, Jennifer R Bowen⁶, Nisha Brown^{1,2,7}, Catherine Callanan⁴, Catherine Campbell¹⁰, Samantha Chandler¹⁹, Jeanie Cheong^{1,3,4}, Brian Darlow⁸, Peter G Davis^{1,4}, Tony DePaoli⁹, Noel French¹⁰, Andy McPhee¹¹, Shusannah Morris¹⁹, Michael O'Callaghan¹², Ingrid Rieger^{13,14}, Gehan Roberts^{2,3,15}, Alicia J Spittle^{3,16}, Dieter Wolke¹⁷ and Lianne J Woodward¹⁸





European Minimal Standards of Care and Follow-up

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Professor of Neonatology Institute for Women's Health, UCL London, United Kingdom Wolke, Dieter PhD

Department of Psychology and Division of Mental

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Implications

Education

- Delayed school entry?
- Teaching the teachers about prematurity
- Instruction methods



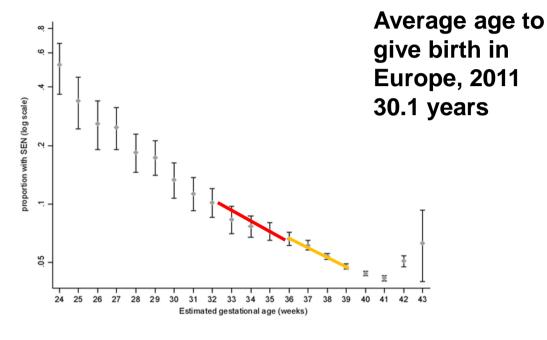
Ageing and Social Care

Mental Health Services

 into adulthood (e.g. Adult ADHD, anxiety, psychotic symptoms, social integration)

COMMENTARY

Changes in Demography and Reproductive Medicine: Prematurity rates are rising!



Last 20 years

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Competing interests None.

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- Johnson S, Hennessy E, Smith R, et al. Academic attainment and special educational needs in extremely preterm children at 11 years of age: the EPICure study. Arch Dis Child Fetal Neonatal Ed 2009;94:F283–9.
- Wolke D. Psychological development of prematurely born children. Arch Dis Child 1998;78:567–70.
- Saigal S, Doyle LW. An overview of mortality and sequelae of preterm birth from infancy to adulthood. Lancet 2008;371:261–9.
- Department for Education. DfE: Special Educational Needs in England: January 2010. London: Department for Education. 2010. http://www.dcsf. gov.uk/rsgateway/DB/SFR/s000939/index.shtml (accessed 12 August 2010).
- Orton J, Spittle A, Doyle L, et al. Do early intervention programmes improve cognitive and motor outcomes for preterm infants after discharge? A systematic review. Dev Med Child Neurol 2009:51:851–9.
- increase of preterm birth 2%: 2000 more cases of any SEN/yr
- increase in near term births 6.2%: 1200 cases more of any SEN/yr



Born Too Soon

The Global Action Report on Preterm Birth









Chapter 1. Preterm birth matters

Chapter 2. 15 million preterm births: priorities for action based on national, regional and global estimates



Overlooked Long term Effects

2. Regulatory Problems in Infancy

- Persistent Crying
- Sleep Problems
- Feeding Problems



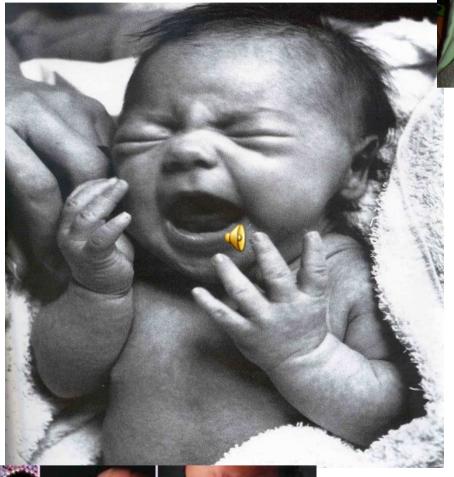
Immediate

- Depression
- Parenting
- SBS
- FTT

Longterm

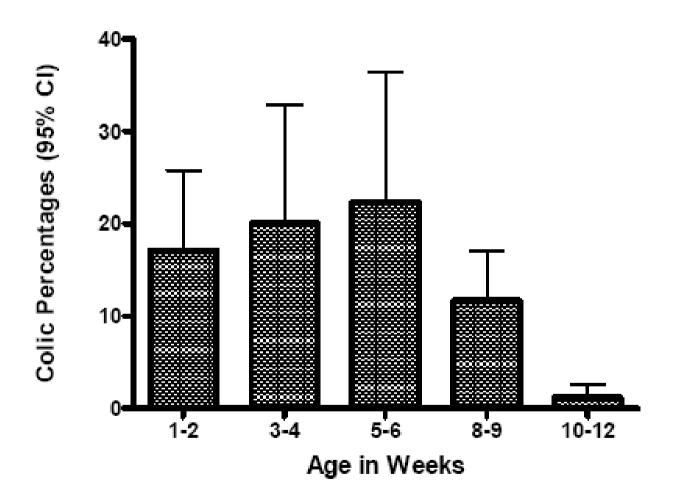
- Behaviour Problems
- Cognition

CRYING





Overall colic percentages combined across studies



Wolke, D, Samara, M & Alvarez Wolke, M (in preparation)



Shaken Baby Syndrome

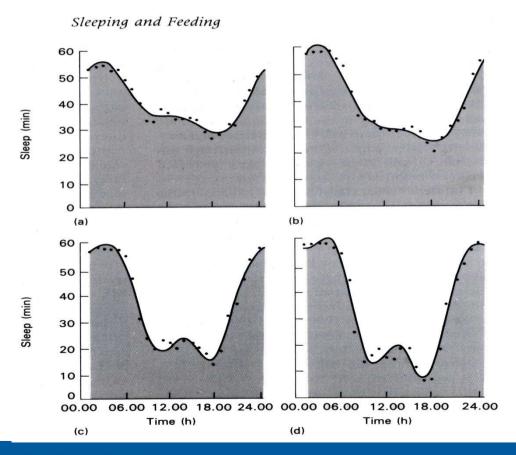
- Weak Neck Muscles
- Normal Large Head to Body ratio
- Violent, sustained shaking





Sleeping: Principles

 Babies are not born with the ability to sleep through the night



Sleeping: Principles

• All babies wake up at night



Feeding & Eating Problems

Human infant depends completely on social relationship for intake of nutritional requirements



The prerequisites for successful feeding are:

- Anatomical maturation of the nervous system and muscular structures
- The development of appropriate oral motor skills
- Appropriate positioning and body posture during feeding
- Appropriate parent-child interaction

(see Wolke et al., 2006; Reilly et al., 2006)

VIDEO Food Refusal

Core Concept:reduced inhibition/self-regulation



- Crying: cannot stop crying
- Sleeping: cannot fall asleep alone or fall back to sleep when awoken
- Feeding: cannot overcome neophobia
- <u>Can</u> have differences in Reactivity
- Must have differences in Regulation





Associations	K	ES	SE	Variance	95% Confidence Interval	
Any Regulatory Problem			-		•	<u>. </u>
General BP	22	0.412	0.067	0.004	0.281	0.544
Externalizing	15	0.507	0.097	0.009	0.318	0.697
Internalizing	11	0.342	0.073	0.005	0.200	0.484
ADHD	13	0.363	0.119	0.014	0.130	0.596

Hemmi, M. H., Wolke, D., & Schneider, S. (2011). Associations between problems with crying, sleeping and/or feeding in infancy and long-term behavioural outcomes in childhood: a meta-analysis. *Archives of Disease in Childhood*, 96(7), 622-629. doi: 10.1136/adc.2010.191312



Conclusions and Implications

- Infant regulatory problems have long term cascading effects on mental health
 - Winsper, C., & Wolke, D. (2014). Infant and Toddler Crying, Sleeping and Feeding Problems and Trajectories of Dysregulated Behavior Across Childhood. *Journal of Abnormal Child Psychology*, 42(45), 831-843.
- There are prevention strategies: dealing with crying, sleep training, managing feeding - Why not in antenatal classes?
- Primary care providers are insufficiently trained to provide preventative actions – behavioural management techniques – infant clinics, parent support

Excessive Infant Crying: A Controlled Study of Mothers Helping Mothers
Dieter Wolke, Pat Gray and Renate Meyer

Pediatrics 1994;94;322-332

 Infant regulatory problems are frequent, expensive (repeat physician visits) and in the long term costly for mental health services.

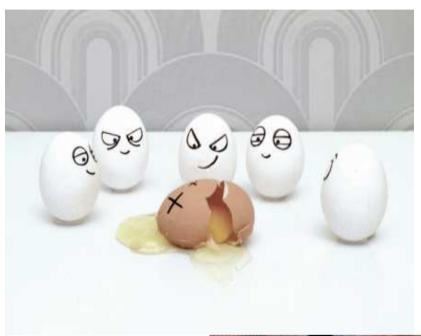


Bullying



Bullying is defined as

- aggressive behaviour or intentional harm-doing by an individual or group that
- 2. is carried out **repeatedly** over time in
- an interpersonal relationship characterized by an imbalance of power





Types of bullying

•Direct/Overt

- ➤ Name calling, teasing, racial slurs
- **≻**Obscene gestures
- >Hitting, kicking, pushing
- >Threatening, stealing

Relational

- >Leaving out on purpose
- >Spreading nasty rumours
- >purposeful damage to social relationships





Perpetrator Type and Victimization: NSPCC- Study

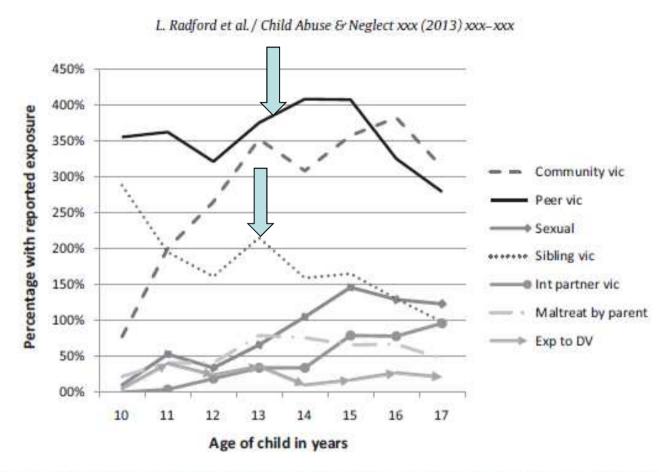


Fig. 1. Past year rates of child victimization by perpetrator type and selected victimization types, ages 10-17 years (weighted data).

Prevalence of Bullying Victimisation in Europe

Variable (Total	Country, n (%)										
	(N = 16210),- n (%) ^a	AU	CZ	FR	DE	ELb	HU	NL	PL	ES	СН	UK
Gender												
Male	8308 (51.3)	731 (51.0)	819 (51.5)	520 (51.1)	882 (51.3)	600 (51.4)	999 (51.0)	947 (51.2)	854 (51.2)	447 (51.4)	866 (51.4)	640 (51.3)
Female	7901 (48.7)	703 (49.0)	773 (48.5)	497 (48.9)	837 (48.7)	567 (48.6)	960 (49.0)	903 (48.8)	816 (48.8)	423 (48.6)	819 (48.6)	607 (48.7)
Age, y												
8-11	5584 (34.4)	526 (36.7)	557 (35.0)	360 (35.4)	596 (34.7)	NA	690 (35.2)	696 (37.6)	536 (32.1)	295 (34.0)	622 (36.9)	468 (37.5)
12-15	6982 (43.1)	601 (41.9)	599 (37.7)	436 (42.9)	723 (42.0)	804 (68.9)	818 (41.8)	761 (41.1)	703 (42.1)	367 (42.2)	728 (43.2)	557 (44.7)
16–18	3643 (22.5)	308 (21.5)	435 (27.3)	221 (21.7)	400 (23.3)	363 (31.1)	450 (23.0)	393 (21.3)	431 (25.8)	207 (23.8)	335 (19.9)	222 (17.8)
Bullying												
➡Yes (score < 1 SD)	3293 (20.6)	343 (25.1)	320 (20.2)	117 (11.7)	297 (17.7)	143 (12.4)	206 (10.5)	485 (26.6)	382 (23.0)	202 (23.7)	365 (22.0) 3	367 (29.6)
No	12698 (79.4)	1027 (74.9)	1263 (79.8)	884 (88.3)	1384 (82.3)	1018 (87.6)	1748 (89.5)	1341 (73.4)	1281 (77.0)	550 (76.3)	1298 (78.0) 8	374 (70.4)

Analitis, F., Velderman, M. K., Ravens-Sieberer, U., Detmar, S., Erhart, M., Herdman, M., et al. (2009). Being Bullied: Associated Factors in Children and Adolescents 8 to 18 Years Old in 11 European Countries. *Pediatrics*, 123(2), 569-577.

Being Bullied: will Kids grow out of it? -

- Adolescence and Adulthood -



Bullied boy, 11, dies after pills overdose

discovered on the floor by his mother, sandra, when she arrived home from the sign of the

Modern bullies are seeking victims through cyberspace



Liam Kirk: 'Hurt in bully class'

National news

Schoolboy **'hanged** himself after bullying'

Council investigates claims that death followed intimidation

vacuum o nounging, it emerged yesterday. Nathan Jones, described by his mother as "warm, loving and sensitive", was found hanging after he returned of Nathan's death spread

and sensitive, was found hanging after he returned from school nine days ago. The school gates by a school gate speakfly as word of Nahan's death apread among pupils and parents.

One mother, who did not school s

Laura Smith

A 12-year-old schoolboy who was found hanged in the bathroom of his home in Romford, Essex, is thought to have been

The attempt to save him con-

Years of bullying drove our son to kill himself

SHY schoolboy traumatised by a fetime of bullying killed himself after

orrifled mother
43, found his tenext morning.

"He just couldn't take any more"



Boy killed by train 'as he fled bullies'

David Ben-Hagin,

A BOY of 12 was hi Overdose girl, 13, was a station platform, ar 'terrified of bullies'

A 13-YEAR-OLD girl who died in a suspected suicide pact was the victim of school bullies, her parents said.

Police had ruled out bullyforced him to the ground. As he k ing as the cause of Laura was trying to get up they jumped a Rhodes's death, but her family said that she was terrified of not receive medical attention at discontinuous about her weight.

The teenager died on Saturday after apparently taking an overdose of painkillers with her friend Rebecca Ling, 14, school does not revise its bullying who is recovering in hospital.

cousin. Jackie Thomas and Mandy Birt, at the family home in Neath, South Wales, Laura's parents Michael and Yvonne Rhodes said that they wanted to "put the record straight". They said that Laura had been extensively picked

on at Cefn Saeson school. Mrs Thomas said that her niece had suffered a "small amount" of bullying at primary school, but when she started secondary school, the bullying became much worse.

"We did try to tackle these



vant authvail," they e "official e was no

had attendance problems and was seen as vulnerable and 'quite isolated'. A boy with learning difficulties reported seeing eight boys chase

Bullies tool pics as they broke arm LAD'S SCHOOL TERROR Cowardly

Boy 'beaten up' In S A 13-YEAR-OLD g lesson on bullying

A TEENAGER needed hospital treatment after he was attacked by eight other pupils - during a school lesson to combat bullying, his family claimed yesterday. Liam Kirk, 14, was allegedly

attacked at Paignton Community College in Devon when the teacher left the class to make a cup of tea.

His father

had suf broken when he He add differen a lesson

Zombie' suicide of bullied girl, 13 A BULLIED schoolgirl was found bunk bed. She was found the next morning by her four-year-old brother,

school and he was left to take his

The IT consultant added: 'If the

son to hospital himself. He may

sue education officials.

hanged by her brother who thought she was pretending to be a zomble, an inquest heard vesterday, Kirsty Botto, viciousl 13, was said to have been so afraid of her tormentor she refused to leave the house alone. But one night after an argument with her mother, Angela, she went to her room and used her school tie to hang herself from her

Conor, who was sent to wake her when she did not appear for breakfast. The boy told his mother's lover Lee

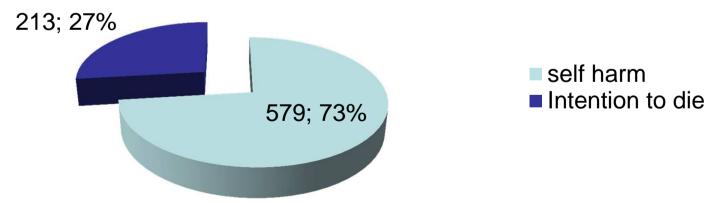
Wheatley: 'She is standing by the bunk bed looking like a zombie.' DC Steve Daniels told the inquest: 'He then stuck his tongue out and

lifted one leg up, imitating the way he had found her.' Kirsty, of Swansea, wrote two letters - to a friend who died after sniffing aerosols and to her late great-grandmother - saying she missed them both. Mr Daniels said Kirsty complained about being bullied and was given a mobile to call her mother if she needed help. The coroner recorded a verdict of suicide.

Being Bullied <11 yrs & Self-harm at 17 yrs

- Self-harm → defined as when somebody intentionally damages or injures their body
- Typical self-harm behaviour → cutting, burning or swallowing pills

Self Harm 16.5%









Being Bullied During Childhood and the Prospective Pathways to Self-Harm in Late Adolescence

Suzet Tanya Lereya, Ph.D., Catherine Winsper, Ph.D., Jon Heron, Ph.D., Glyn Lewis, Ph.D., David Gunnell. D.Sc., Helen L. Fisher, Ph.D., Dieter Wolke, Ph.D.

JOURNAL OF THE AMERICAN ACADEMY OF CHILD & ADOLESCENT PSYCHIATRY

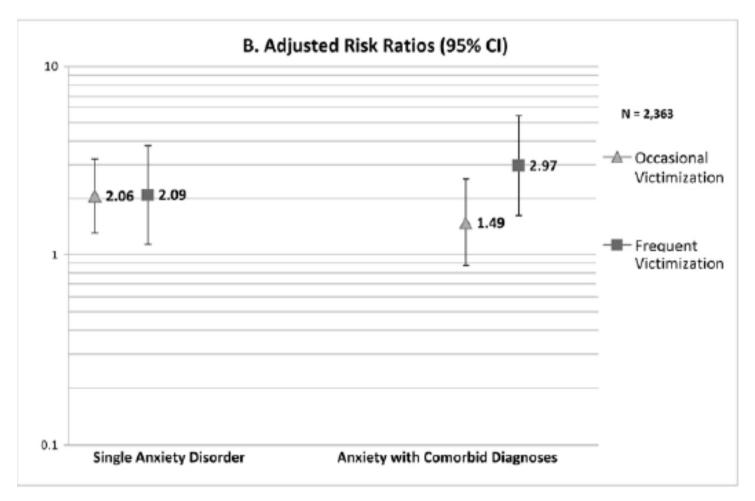
VOLUME 52 NUMBER 6 JUNE 2013

- Being bullied directly increased the risk of self-harm (Population attributable Fraction (PAF) > 20%)
- It means: if bullying could be eliminated (and everything else stays the same) 20% of self-harm cases could be prevented!
- Compare this to obesity (BMI > 30) it occurs in 15% of the population - but accounts for only 2.8% of all myocardial infarctions

Yusuf S, Hawken S, Ôunpuu S, et al. Obesity and the risk of myocardial infarction in 27000 participants from 52 countries: a case-control study. *The Lancet.* 2005;366(9497):1640-1649.



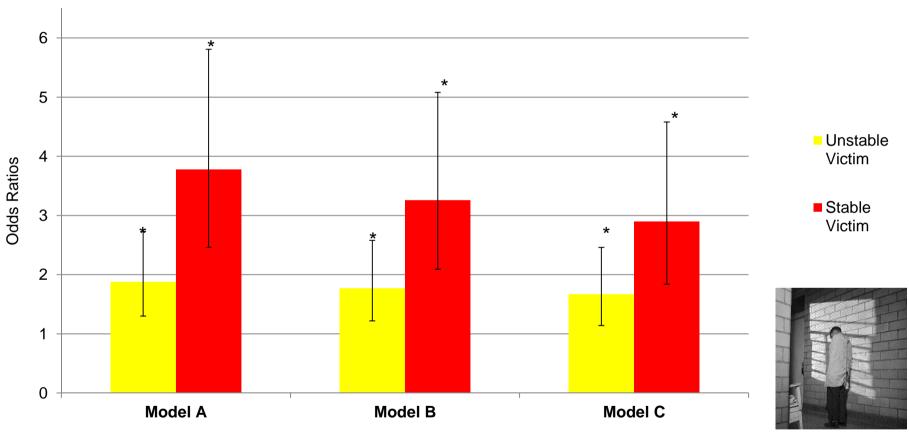
Peer victimisation at 12 years and Anxiety Disorders at 18 years



Stapinski, L. A., Bowes, L., Wolke, D., Pearson, R. M., Mahedy, L., Button, K. S., . . . Araya, R. (in press (2014). Peer victimization during adolescence and risk for anxiety disorder in adulthood: A prospective cohort study. *Depression and Anxiety*



Chronicity of Victimisation (Child Report) & Psychotic Experiences at 18 years



Model B: Adjusted for Sex, any DSM-IV diagnosis, IQ, internalizing/externalizing behaviour

Model C: Adjusted for Sex, any DSM-IV diagnosis, IQ, internalizing/externalizing behaviour, depression symptoms at 12, 13 or
14 years and psychotic experiences at 12 years

Wolke, D., Lereya, S. T., Fisher, H. L., Lewis, G., & Zammit, S. (2014). Bullying in elementary school and psychotic experiences at 18 years: a longitudinal, population-based cohort study. *Psychological Medicine*, 44(10), 2199-2211. doi:





Adult Psychiatric Outcomes of Bullying and Being Bullied by Peers in Childhood and Adolescence

William E. Copeland, PhD: Dieter Wolke PhD: Adrian Annold MRCPsych: F. Jane Costello, PhD

JAMA Psychiatry. 2013;70(4):419-426. Published online February 20, 2013. doi:10.1001/jamapsychiatry.2013.504

Impact of Bullying in Childhood on Adult Health, Wealth, Crime, and Social Outcomes



Psychological Science XX(X) 1-13 © The Author(s) 2013 Reprints and permissions: sagepub.com/journalsPermissions.nav DOI: 10.1177/0956797613481608 pss.sagepub.com

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William Copeland



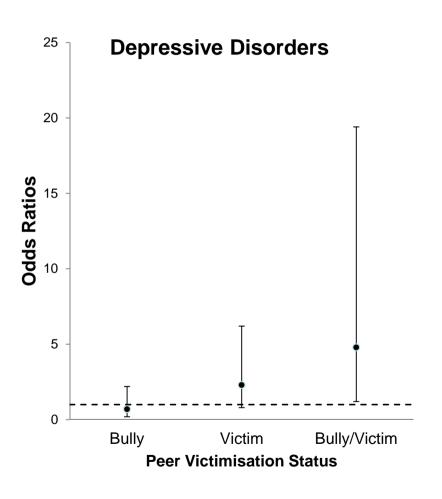
Jane Costello

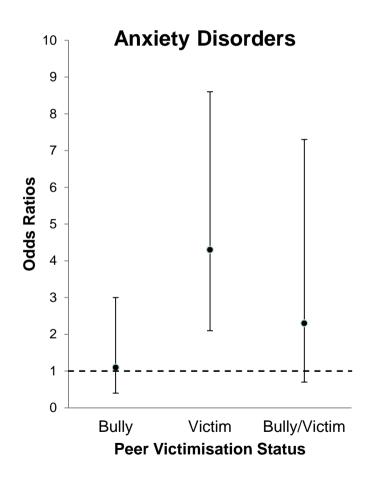


Adrian Angold

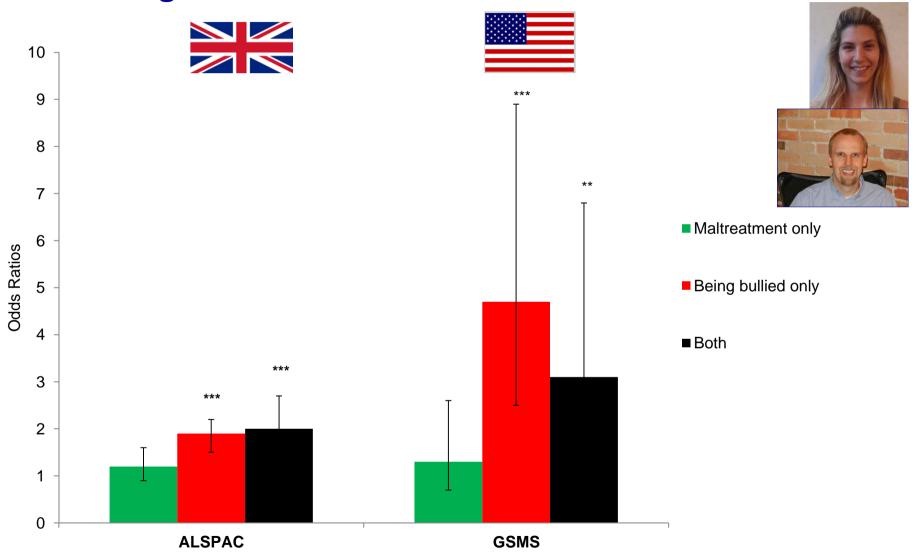


Bullying involvement at 9-16 years and early adult psychiatric outcome (controlled for childhood psychiatric problems and family factors)



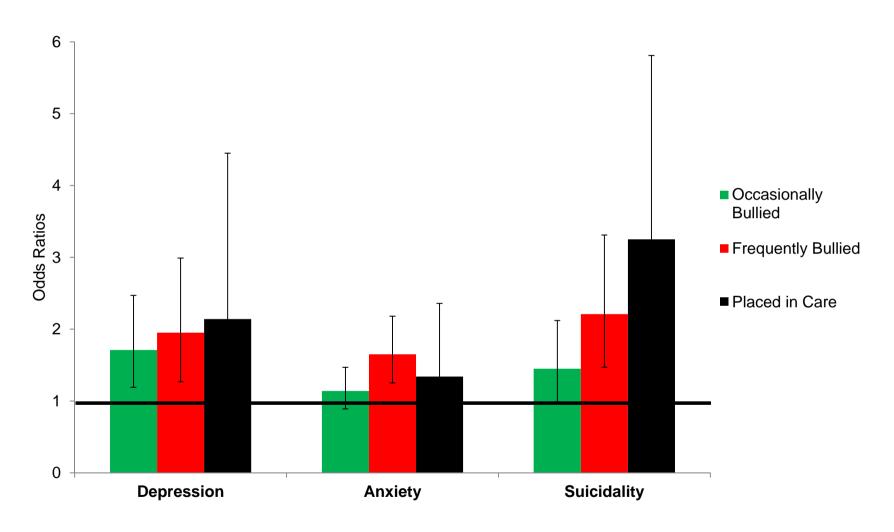


Mental Health Consequences of Maltreatment &/or Being Bullied: Two Cohorts in Two Countries



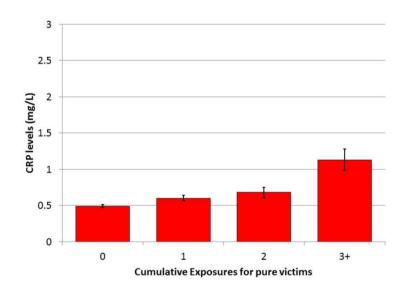


Being Bullied at Ages 7 & 11 and Psychiatric Outcomes at Age 45



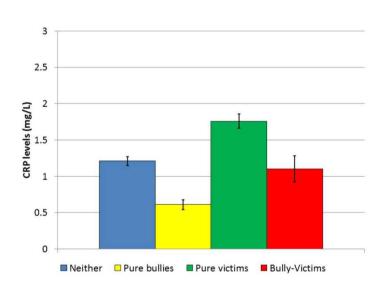
Bullying gets under the skin: Roles in Bullying and chronic low grade inflammation (creactive protein levels changes in blood)

In Childhood



Victims of bullying in childhood have potential increased risk of cardiovascular and metabolic diseases, researchers have found. C-reactive protein (CRP) levels in the blood increase with advancing age from childhood to adulthood and the higher these levels in the body, the higher the risk of cardiovascular disease, metabolic syndrome and psychological disorders. In a study published in PNAS, researchers from the University of Warwick, Duke University Medical Center, the University of North Carolina and Emory University were able to show that being bullied in childhood led to increased systemic low-grade inflammation in adulthood.

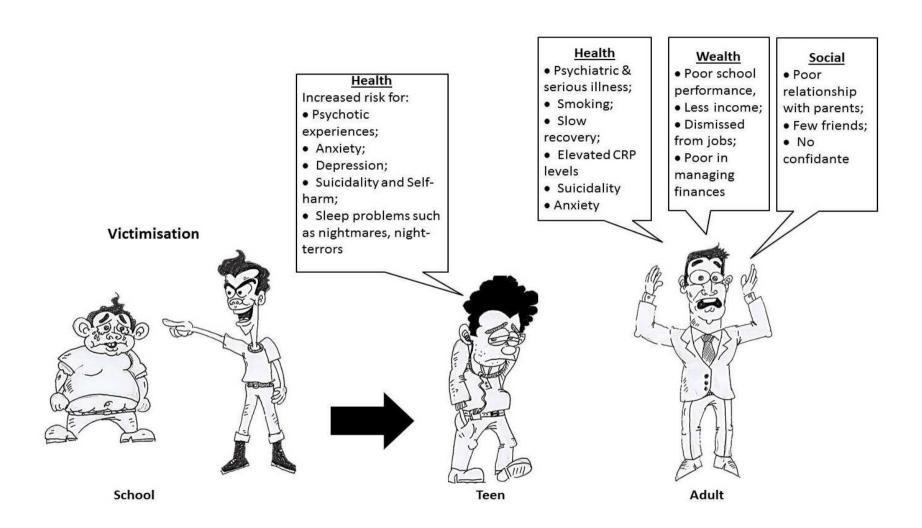
From Child to Adulthood



Copeland, W. E., Wolke, D., Lereya, S. T., Shanahan, L., Worthman, C., & Costello, E. J. (2014). Childhood bullying involvement predicts low-grade systemic inflammation into adulthood. *Proceedings of the National Academy of Sciences. doi: 10.1073/pnas.1323641111*



Summary of Adverse Outcomes of Bullying



Implications

If we want to improve the Health and Wealth of the Nation – we need to address bullying

Doubters: but so many children are affected – it is just normal.....

Answer: Just because it is frequent it does not mean it does not matter!

Example: Most people break a bone in their life – it is normal – do we leave them with hanging arms or stumps of legs – we treat them – we assess, set and provide them with a cast.







HIGHLIGHTING RESEARCH FINDINGS AND THEIR RELEVANCE IN KEY POLICY AREAS

The long-term cost of bullying

Being bullied as a child is a cause of long-lasting and significant damage. Victims of childhood bullying are at increased risk of poorer health, wealth

the bullying problem. It is a public health and community problem that requires parents, GPs, other community agencies and schools to work together.

Worked with All Party Parliamentary Group on bullying:

Definition of Bullying in the new Family and Child Bill – Depression as a special Need







Overprotective Parents Can Make a Kid a Target of Bullies

By Charlene Laino, Senior Writer, Gupta Guide

Published: April 25, 2013

Reviewed by Zalman S. Agus, MD; Emeritus Professor, Perelman School of Medicine at the University of Pennsylvania and Dorothy Caputo, MA, BSN, RN, Nurse Planner

Overprotected children 'more likely to be bullied'

By Hannah Richardson

BBC News education reporter

Children who have overprotective parents are more likely to be bullied by their peers, research suggests.





Live Well

Care and support Negative parenting linked

with kids being bullied

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"Children who have overprotective parents are more

Health A-Z

likely to be bullied by their peers." BBC News explains.

The news correctly presents the findings of a major study on the effects of parenting on a child's risk of being bullied, but it focuses on the weakest finding of the research.

The study did suggest that overprotective parents may increase a child's risk of being bullied



Friday April 26 2013

Children of overprotective parents were more likely to be bullied

Aggression Between Siblings: Associations With the Home Environment and Peer Bullying

Neil Tippett* and Dieter Wolke

Department of Psychology, University of Warwick, Coventry, UK

Journal of Child Psychology and Psychiatry 45:5 (2004), pp 1015–1029

Int J Adolesc Med Health 2012;24(1):xxx-xxx © 2011 by Walter d

Bullying among siblings

Bullied by siblings: association with peer victimisation and behaviour problems in Israeli lower secondary school children

Dieter Wolke^{1,2,*} and Alexandra J. Skew^{1,2}

Dieter Wolke, and Muthanna M. Samara

University of Bristol, Division of Child Health, ALSPAC, UK

Sibling Bullying and Risk of Depression, Anxiety, and Self-Harm: A Prospective Cohort Study

AUTHORS: Lucy Bowes, PhD,^a Dieter Wolke, PhD,^b Carol Joinson, PhD,^c Suzet Tanya Lereya, PhD,^b and Glyn Lewis, PhD^d

"Department of Social Policy and Intervention, University of Oxford, Oxford, United Kingdom; "Department of Psychology and Division of Mental Health & Wellbeing, University of Warwick, Coventry, United Kingdom; "Centre for Mental Health, Addiction and Suicide Research, School of Social & Community Medicine, University of Bristol, Bristol, United Kingdom; and "Division of Psychiatry, Faculty of Brain Sciences, University College London, London, United Kingdom



what's known on this subject: Recent reviews suggest that children bullied by siblings are at increased risk of internalizing symptoms. It is not known whether being bullied by a sibling increases risk of psychiatric disorders such as depression, anxiety, and self-harm.



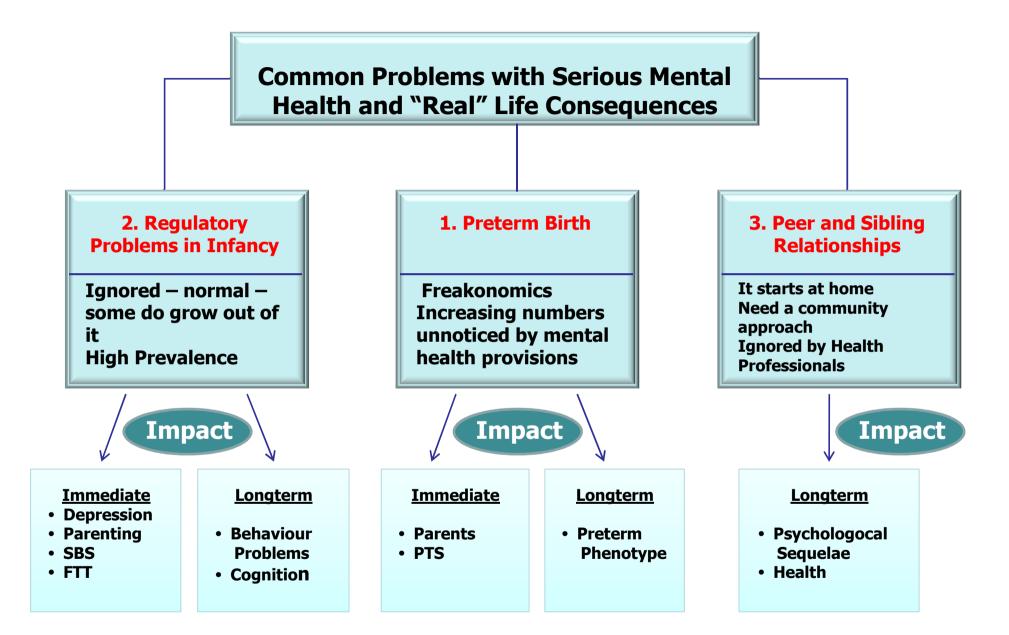
what THIS STUDY ADDS: Using a large, community-based birth cohort, we found that being bullied by a sibling is prospectively associated with a doubling in the odds of both depression and self-harm at 18 years in young adults.



Pedatrics, September, 8, 2014

KEY WORDS





Thanks for listening



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