

Protecting and improving the nation's health

# Introduction to Adverse Childhood Experiences

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### Overview

- 1. What are adverse childhood experiences
- 2. Why do adverse childhood experiences matter
- 3. What can we do about adverse childhood experiences
  - Prevention (of future ACEs/vulnerability factors)
  - Early intervention (for children in families with ACEs/vulnerability factors currently)
  - Mitigation for children/young people and adults already affected
- 4. How do we implement this locally (discussion/activity).
- 5. Summary

### 1. What are adverse childhood experiences?

- There are 3 direct and 6 indirect experiences that have an impact on childhood development.
- The more adversity a child experiences the more likely it is to impact upon their mental and physical health.
- Evidence suggests children exposed to 4 or more adverse experiences are more likely to participate in risk taking behaviours and find it more difficult to make changes.
- ...and consequently, have poorer health outcomes.

### Adverse Childhood Experiences (ACEs)

#### CHILD MALTREATMENT





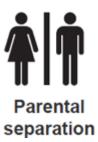


Verbal abuse

Physical abuse

Sexual abuse

#### CHILDHOOD HOUSEHOLD INCLUDED





Domestic violence



Mental illness



abuse



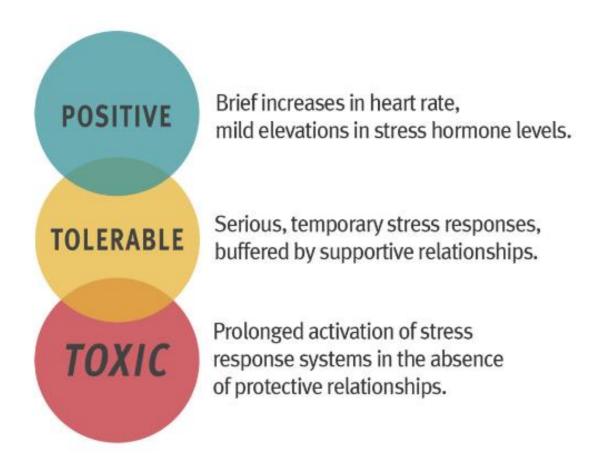
Drug use 4%



Incarceration 3%

Source: Centre for Public Health: Liverpool John Moore's University 2016

## Child development and 'toxic stress'



Source: Harvard University, Centre for the Developing Child; Petchel and Pizzagalli, 2011.

### Chronic/Toxic Stress

Chronic traumatic stress in early life alters how a child's brain develops it fundamentally alters

- nervous
- hormonal
- immunological system development.

"This can result in individuals whose systems are 'locked' into a higher state of alertness; permanently prepared for further trauma. Such physiological changes increase the wear and tear (allostatic load) on their body; increasing risks of premature ill health such as cancer, heart disease and mental illness"

Source: Public Health Wales and CPH, John Moore's University 2016

### Toxic stress video



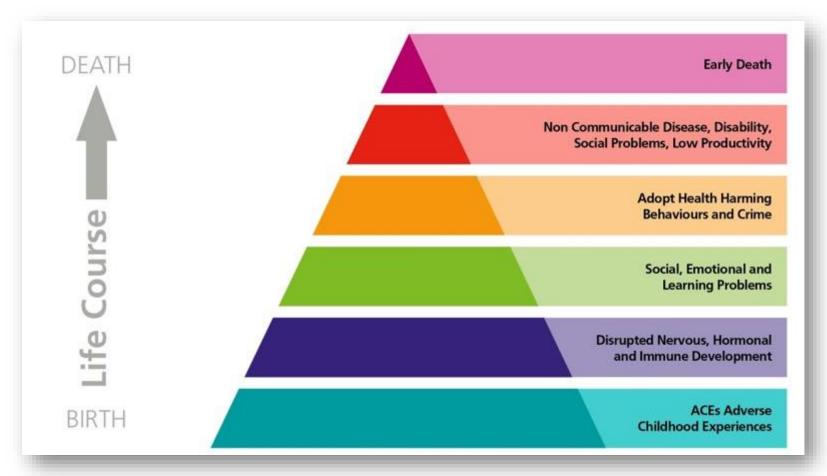
Access below:

https://www.youtube.com/watch?v=rVwFkcOZHJw

### We can learn new skills



# 2. Why ACEs matter



Source: Bellis 2016 adapted from Felitti 1998, image credit to Warren Larkin Associates Limited

### Who is at risk?

Individuals reporting at least one ACE





Individuals reporting 4 ACEs or more





Source: Bellis, 2014.

# Diet and obesity

- In the 1980s Felitti discovered that patients successfully losing weight in a local Weight Programme were the most likely to drop out.
- Found that overeating and obesity were often being used unconsciously as protective solutions to unrecognized problems dating back to childhood.
- Counterintuitively, obesity provided hidden benefits: it often was sexually, physically, or emotionally protective.





Source: Felitti, 1998

# Health and wellbeing behaviours

**UK** study suggests those with 4 ACEs + are:

2x more likely to have a poor diet 2

3x more likely to smoke 1

5x more likely to have had sex under 16 years 1

6x more likely to have been pregnant

or got someone accidently pregnant Under 18 <sup>2</sup>









Source: 1. Bellis et al. 2012 2. Bellis et al. 2013

# Social and community impact

**UK study suggests those with 4 ACEs + are:** 

2x more likely to binge drink

7x more likely to be involved in recent violence

11x more likely to have been incarcerated

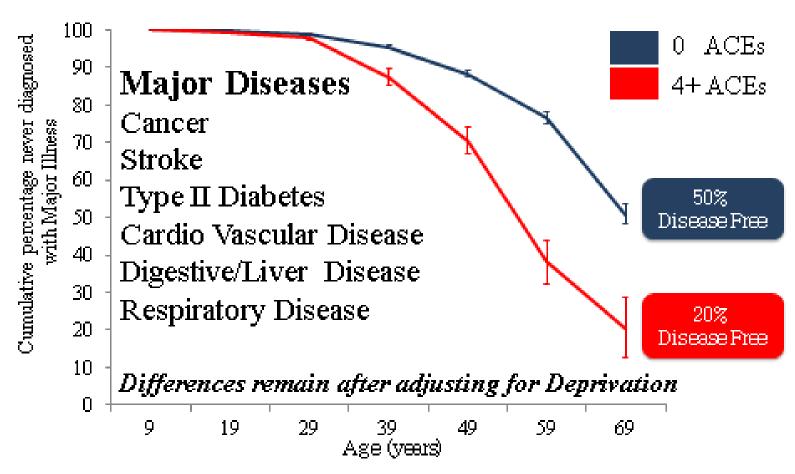
11x more likely to have used heroin or crack



Source: Bellis et al. 2014, n=3885

## Health and wellbeing outcomes

Individuals **never diagnosed** with a major disease by age (%)



Source: Bellis et al, 2014

## Impact on services

#### People with 4+ ACES compared with those with no ACES

#### Health care:-

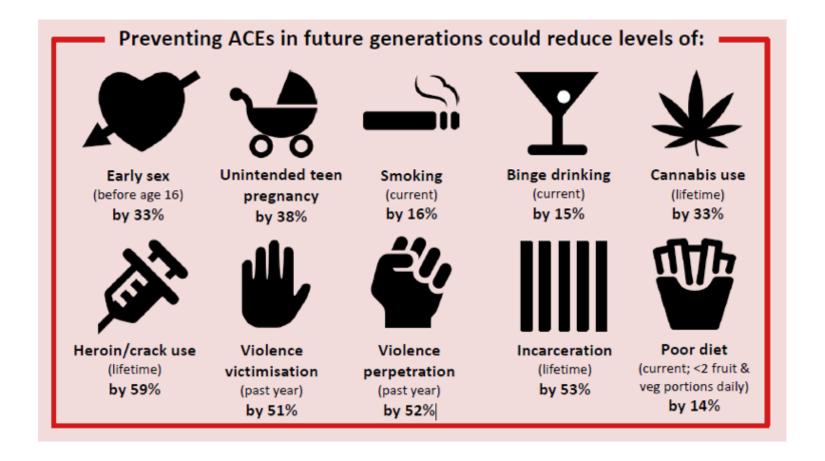
- 2.1 x more likely to have visited their GP in the last 12 months<sup>1</sup>
- 2.2 x more likely to have visited A&E in the last 12 months<sup>1</sup>
- 2.3 x more likely to have more than ten teeth removed<sup>1</sup>
- 2.5 x more likely to have stayed a night in hospital<sup>1</sup>
- 6.6 x more likely to have been diagnosed with an STD<sup>1</sup>

#### **Social Care:-**

- 64% of those in contact with substance misuse services had 4+ ACE<sup>2</sup>
- 50% of homeless people had 4+ ACES<sup>2</sup>

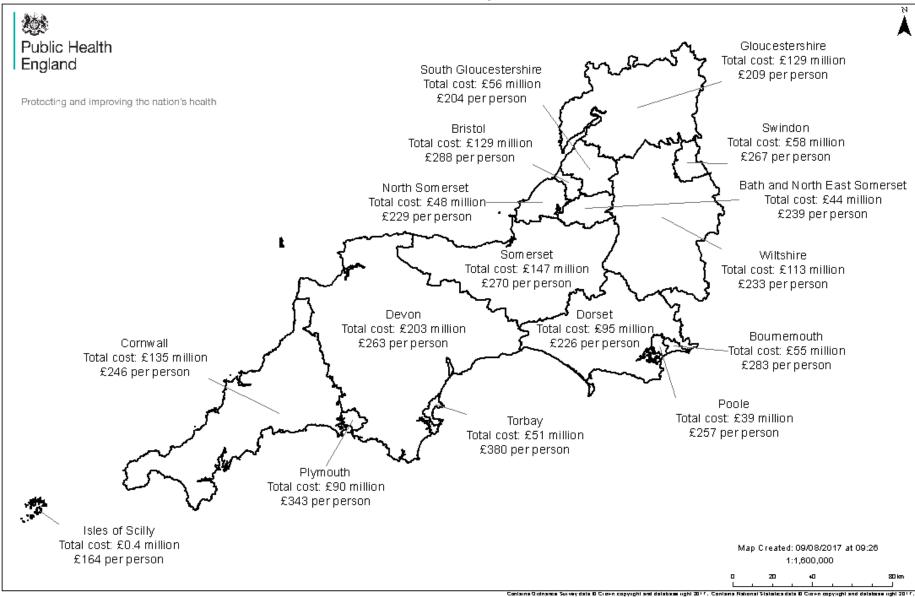
Source: 1 Ford et al 2016 2 Bellis et al, 2014,2016

# **Opportunity**



Source: http://www.cph.org.uk/wp-content/uploads/2014/05/ACE-infographics-BMC-Medicine-FINAL-3.pdf

#### Cost of Late Intervention in the South West by Local Authorities



Source: Early Intervention Foundation, 2016.

# National responses

- There is a range of evidence of the impact of negative factors in childhood on later life
- 2. 'ACEs' is one way of describing these negative factors and helpfully 'quantifies' them to some degree
- 3. Some areas are looking to an 'ACE Framework' to describe local work
- 4. Other national bodies are using 'vulnerability' as their framing in particular this is the focus of the Office of the Children's Commissioner this year\*
- 5. Some local areas are also looking to a 'vulnerability framework'.

<sup>\*</sup>https://www.childrenscommissioner.gov.uk/publication/childrens-commissioners-report-on-vulnerability/

### 3. What can we do about ACEs?



Working across the life-course

# Policy and guidance

#### 1.Prevention

Best start in life Emotional health and wellbeing in schools & colleges Housing for health

#### 2. Early Intervention

Supporting mental health in schools & colleges
Cost of late intervention
Future in mind 5 / Year Forward View for mental health

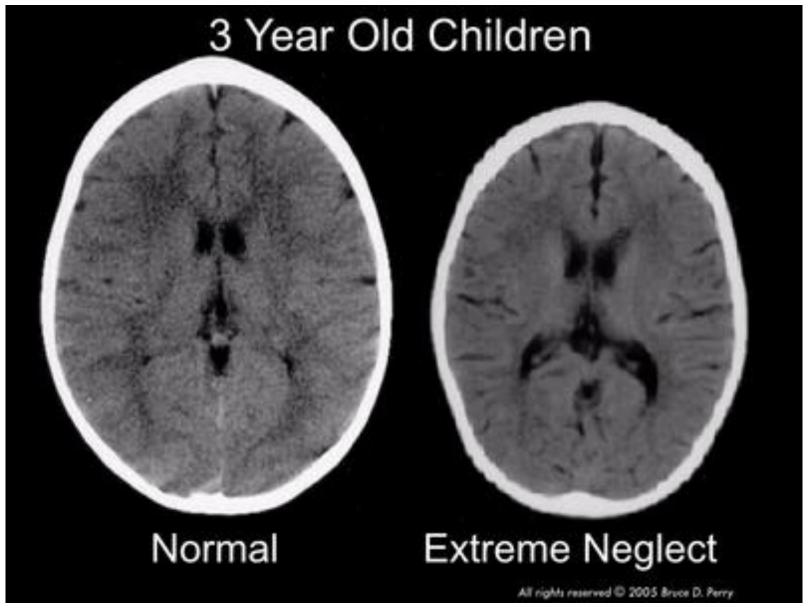
#### 3. Mitigation

Tackling child sexual exploitation
Helping workless families
Future in Mind / 5 Year Forward View for mental health

### 3.1 Prevention

- Promote early attachment
- Universal and selective services home visits, parenting/family programmes
- Sexual abuse and violence prevention
- Community policing
- Schools building resilience
- Social care system to prevent intergenerational neglect and abuse





Source: Perry & Pollard 1997 and 2005. https://childtrauma.org/wp-content/uploads/2013/12/PerryPollard\_SocNeuro.pdf

# 3.2 Early intervention

### **Examples of interventions**

Perinatal mental health
Early years support and education
Whole school/college interventions
Bullying interventions
Mindfulness
Mental Health First Aid
Connect 5 Training
Counselling
Early intervention for self-harm



# 3.3 Mitigation for those with ACEs





"You're Welcome"

Young people's health services



### Trauma informed services in schools

Trauma informed care aims to develop different thinking process so that children and adults are less likely to 'flip' into the fight/flight type response that is associated with threat and stress.

Examples in the South West include:

- 'Thrive Approach' commissioned in Devon and Plymouth
- 'Mindful Emotion Coaching' commissioned in Somerset and North Somerset
- Emotion Coaching in Wiltshire, Swindon and Bath and North East Somerset





Sources: https://www.thriveapproach.com/ http://www.emotioncoaching.co.uk

### Trauma informed services – video links

Clip 1 Emotion coaching and mindfulness introduction



Clip 2 Emotion coaching presentation and discussion for children's services

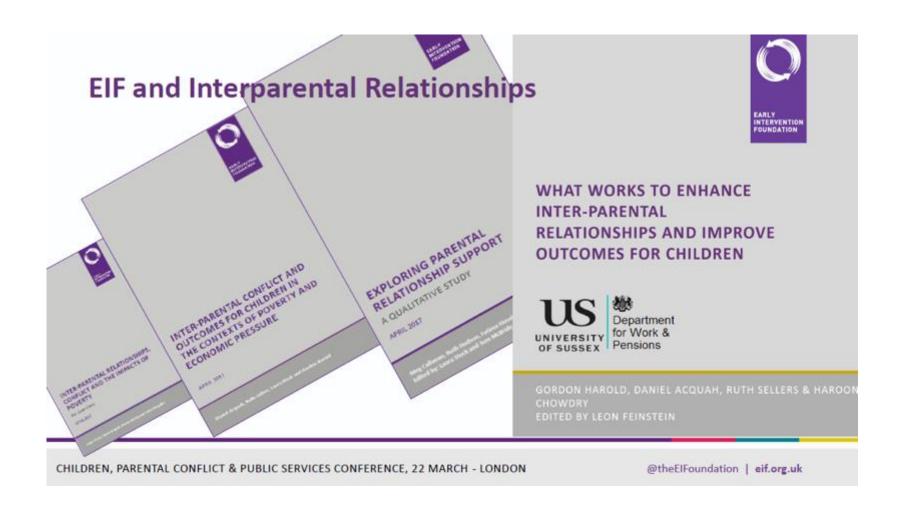
and schools



http://www.emotioncoaching.co.uk/

# Early Intervention Foundation





http://www.eif.org.uk/wp-content/uploads/2018/03/RPC-Conference-London.pdf

## Impacts of economic pressure

#### **Family Stress Model Father** psychological distress Parent-Child Economic child problems pressure problems Mother psychological distress CHILDREN, PARENTAL CONFLICT & PUBLIC SERVICES CONFERENCE, 22 MARCH - LONDON @theElFoundation | eif.org.uk

# **DWP** pilots

#### **Face to Face Support**

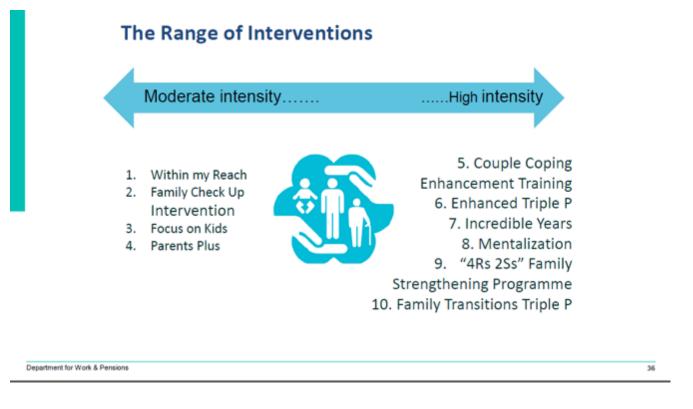
The Contract Package Areas:

| Lead Authority | Geographical Co  | /erage  |  |
|----------------|--|---|--|
| Westminster    | Westminster Brent Croydon Fulham Lambeth   | Kensington & Chelsea<br>Camden<br>Hammersmith &     |  |
| Gateshead      | Gateshead<br>Sunderland<br>South Tyneside<br>Middlesbrough<br>Redcar & Cleveland | Newcastle<br>Northumberland<br>Hartlepool<br>Durham |  |
| Hertfordshire  | Hertfordshire<br>Cambridgeshire<br>Southend                                      | Essex<br>Buckinghamshire<br>Peterborough            |  |
| Dorset         | Dorset Somerset Bournemouth Plymouth   | Devon<br>Wiltshire<br>Poole<br>Torbay               |  |

Department for Work & Pensions

35

### See EIF reference on previous slide



### See EIF reference on previous slide

# Routine enquiry into adversity REACH

Blackburn with Darwen Local Authority in partnership with Lancashire Care NHS Foundation Trust studied the barriers to early detection of ACEs.

#### The findings:



In response these findings the Routine Enquiry About Adversity in Childhood model (REACh) was created. The model systematically screens for adversity.

Source: www.lancashirecare.nhs.uk/REACh

# Key findings of the REACh model

- Practitioners were not aware of the impact of adversity on later life outcomes.
- REACh helped to equip practitioners with the knowledge and skills to conduct routine enquiry with service users.
- The model is feasible and acceptable to staff and service users.
- There was no significant increases in service need following practice change.
- The REACh approach was the catalyst for increased frequency of disclosures, better therapeutic alliance and more targeted interventions.
- Practitioners considered the impact of ACEs in relation to their lives and that of their children.

Source: www.lancashirecare.nhs.uk/REACh

### 4. Implementation



#### Strategic:-

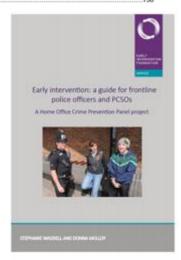
Sustainability and Transformation Plans, I Systems, CQUINS (NHS), JSNA's Police Early Intervention Programmes

#### **Operational:-**

0-5years/health visiting, drug and alcohol services, violence prevention, sexual health, workforce development for routine enquiry

### CQUIN Indicator Specification Information on CQUIN 2017/18 - 2018/19 Publications Gateway Reference 06023

|     | ntents   |        |
|-----|--|--------|
| 1.  | The CQUIN scheme 2017/18 – 2018/19   |        |
| 1.  | Improving staff health and wellbeing                                       |        |
| 2.  | Reducing the impact of serious infections (Antimicrobial Resistance and Se | epsis) |
|     |  | 14     |
| 3.  | Improving physical healthcare to reduce premature mortality in people with | 1      |
| ser | rious mental illness (PSMI)  | 2      |
| 4.  | Improving services for people with mental health needs who present to A8   | E4     |
| 5.  | Transitions out of Children and Young People's Mental Health Services      |        |
| (C) | /PMHS)   | 61     |
| 6.  | Offering advice and guidance   | 7      |
| 7.  | NHS e-Referrals  | 83     |
| 8.  | Supporting proactive and safe discharge                                    | 91     |
| 9.  | Preventing ill health by risky behaviours - alcohol and tobacco            | 109    |
| 10. | Improving the assessment of wounds   | 130    |
| 11. | Personalised care and support planning                                     | 134    |
| 12. | Ambulance conveyance   | 144    |
| 12  | NIAC 444 referrals   | 460    |



### In a child's words



Access video here:

http://www.aces.me.uk/in-wales/

'Sufficient evidence is already available for governments to prioritise and invest in ACE preventing interventions. Too often the focus is on addressing the consequences of ACEs rather than preventing them in the first instance.'

Bellis et al, 2014

# Service responses

#### Early Intervention and prevention

How do you use data to you understand the need within your service?

How do you develop and promote resilience?

How do you respond when there are signs of vulnerability/adversity?

#### Integrated working

How do you work with other agencies such as criminal justice, education,

health and other services?

What opportunities do you have to forge stronger links?

#### Proportional Universalism

Children from all backgrounds can experience ACES

Are staff working within universal services ACES aware/aware of these vulnerability factors?

Do staff know how to respond in a 'trauma informed' way?

Have you got enough capacity in the system to scale up your responses where the need is?

http://www.instituteofhealthequity.org/resources-reports/the-impact-of-adverse-experiences-in-the-home-on-children-and-young-people/impact-of-adverse-experiences-in-the-home.pdf

# Discuss with your neighbour

- 1.What local programmes are you involved in that align with ACE?
- 2. What would a multi-agency ACE approach offer your local area?
- 3. What could you change in your work that would reduce the impact of ACES?

### 5. Summary

- There are nine key ACEs that can impact on a child's development and their response to stress.
- The more ACEs a child experiences the more likely they are to experience health implications as a result of poor health behaviours which can result in early death.
- Early intervention and prevention work are cost saving in comparison to late intervention programmes.
- Routine enquiry could help to identify those that may be at risk and those that have already experienced ACEs and an opportunity to develop appropriate care plans as required.
- Opportunity for services to become ACE aware and have a trauma informed response.

### Contact:

#### Jan Bond

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### Nadine Burke Harris – TED talk.



How childhood trauma affects health across a lifetime | Nadine Burke Harris

Access video here:

https://www.youtube.com/watch?v=95ovIJ3dsNk

# Mark Bellis – NHS England Lecture.

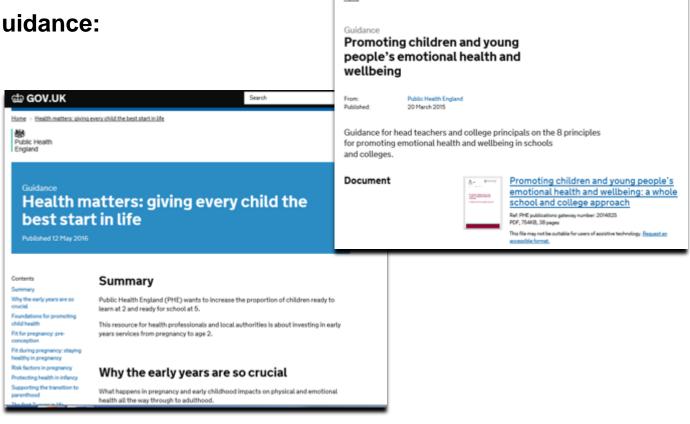


Video can be accessed here (29 minutes) <a href="https://www.youtube.com/watch?v=7xuWzPRf0ro">https://www.youtube.com/watch?v=7xuWzPRf0ro</a>

# Policy examples

#### **Examples of Guidance:**

Best Start in Life' and Emotional Health and Wellbeing in Schools and Colleges



⇔ GOV.UK

Search

Departments Worldwide How government works Get involved

Source: <a href="https://www.gov.uk/government/publications/health-matters-giving-every-child-the-best-start-in-life/health-matters-giving-every-child-the-best-start

https://www.gov.uk/government/publications/promoting-children-and-young-peoples-emotional-health-and-wellbeing

# **Bibliography**

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Bellis, MA, Hughes, K, Hardcastle, K. Ashton, K. Ford, K. Quigg, Z. Davies, A. The impact of adverse childhood experiences on health service use across the life course using aretrospective cohort study http://journals.sagepub.com/doi/pdf/10.1177/1355819617706720

<u>Early Intervention Foundation, 2016. The Cost of Late Intervention</u>
<a href="http://www.eif.org.uk/publication/the-cost-of-late-intervention-eif-analysis-2016/">http://www.eif.org.uk/publication/the-cost-of-late-intervention-eif-analysis-2016/</a>

Felitti, V. J. (1998) Relationship of Childhood Abuse and Household Dysfunction to Many of the Leading Causes of Death in Adults: The Adverse Childhood Experiences (ACE) Study' American Journal of Preventive Medicine 14(4): 245–258

<u>Ford, K. et al (2016)</u> Adverse Childhood Experiences (ACEs) in Hertfordshire, Luton and Northamptonshire. <a href="http://www.cph.org.uk/wp-content/uploads/2016/05/Adverse-Childhood-Experiences-in-Hertfordshire-Luton-and-Northamptonshire-FINAL\_compressed.pdf">http://www.cph.org.uk/wp-content/uploads/2016/05/Adverse-Childhood-Experiences-in-Hertfordshire-Luton-and-Northamptonshire-FINAL\_compressed.pdf</a>

<u>Health Equity Institute – ACE Book - http://www.instituteofhealthequity.org/Content/FileManager/adverse-experiences-book\_final.pdf</u>

Hughes, K., Lowey, H., Quigg, Z. & Bellis, M. A. (2016) 'Relationships between adverse childhood experiences and adult mental well-being: results from an English national household survey' BMC Public Health 16:222

Hopper, E. K., Bassuk, E. L., & Olivet, J. (2010). Shelter from the storm: Trauma-informed care in homeless service settings. The Open Health Services and Policy Journal, 3, 80-100

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Perry, B and Pollard, R. (1997) Altered brain development following global neglect in early childhood. <a href="https://childtrauma.org/wp-content/uploads/2013/12/PerryPollard">https://childtrauma.org/wp-content/uploads/2013/12/PerryPollard</a> SocNeuro.pdf

Petchel P and Pizzagalli DA. 2011. Effects of early life stress on cognitive and affective function: an integrated review of human literature. Psychopharmacology 214:55-70

Public Health Wales Reports available at:

http://www2.nphs.wales.nhs.uk:8080/PRIDDocs.nsf/7c21215d6d0c613e80256f490030c05a/d488a3852491bc1d80257f37003891 9e/\$FILE/ACE%20Report%20FINAL%20(E).pdf

### Other useful sources

https://www.cdc.gov/violenceprevention/acestudy/

http://www.cph.org.uk/wp-content/uploads/2016/01/ACE-Report-FINAL-E.pdf

https://www.gov.uk/government/statistics/wider-determinants-of-health-march-2017

https://www.gov.uk/government/publications/improving-the-mental-health-of-children-and-young-people

https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/583047/alcohol\_public\_health\_burden\_evidence\_review.pdf

https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/586111/PHE\_Evidence\_review\_of\_drug\_treatment\_outcomes.pdf

https://www.gov.uk/government/publications/improving-lives-helping-workless-families

https://www.gov.uk/government/publications/improving-lives-helping-workless-families-evidence-base

https://www.gov.uk/government/publications/teenage-mothers-and-young-fathers-support-framework

### **Public Health Profiles**

https://fingertips.phe.org.uk/

#### **Public Health Profiles**

Indicator keywords

Q

#### **Highlighted Profiles**

Child and Maternal Health National General Practice Profiles

Health Profiles Public Health Dashboard

Mental Health, Dementia and Neurology Public Health Outcomes Framework

#### **National Public Health Profiles**

**Adult Social Care** 

AMR local indicators

Atlas of Variation

Cancer Services

Cardiovascular Disease

Child and Maternal Health

Diabetes

Disease and risk factor prevalence

**Longer Lives** 

Marmot Indicators

Mental Health, Dementia and Neurology

Musculoskeletal Diseases

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NCMP Local Authority Profile

NHS Health Check

Older People's Health and Wellbeing

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