

# Analysing longitudinal data for looked after children in England

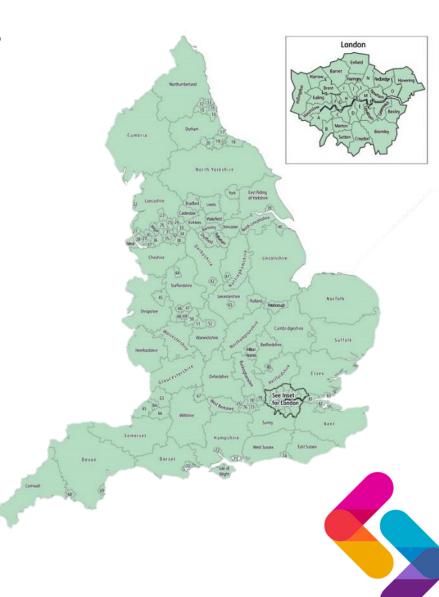
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Better Knowledge Better Society

### Children Looked After return

- Derived from an annual census of all local authorities
- Collated by the Department for Education since 1992
- Care records are linked over time via a child ID
- Data extract we analysed contained:

complete care histories for 1/3 of children born 1992 to 2011 who entered care by 2012





## Using CLA data for research

### **Strengths**

- More than 20 years of data collected
- Longitudinal record of children's care history
- Lack of selection or recall bias
- Detailed information on episodes of care
- Linkage to other datasets is possible e.g. education



# Describing out-of-home care in England

- Number of children in care
   e.g. ever, at a single time point, during a period
- Type of care
   e.g. setting, legal status
- Duration of care
   e.g. length of first episode, total time, % of childhood
- Trajectories of care
   e.g. number of placement moves, destination, re-entry to care



How do these vary:



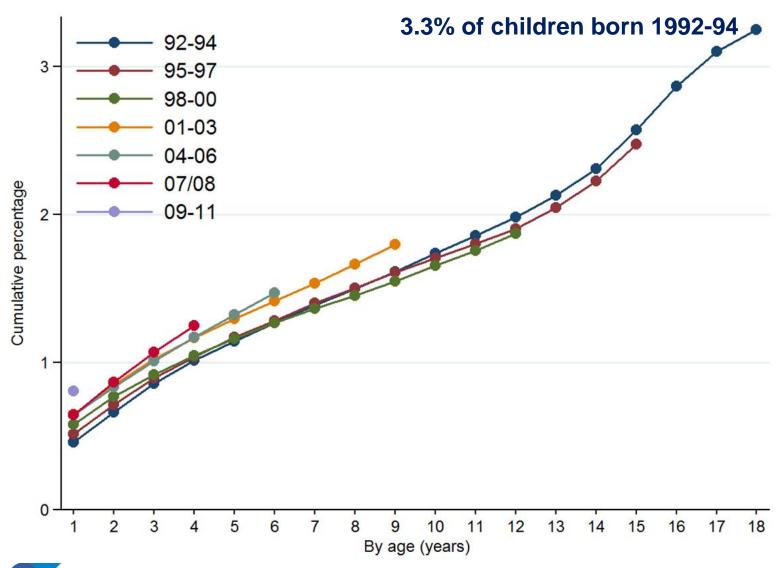
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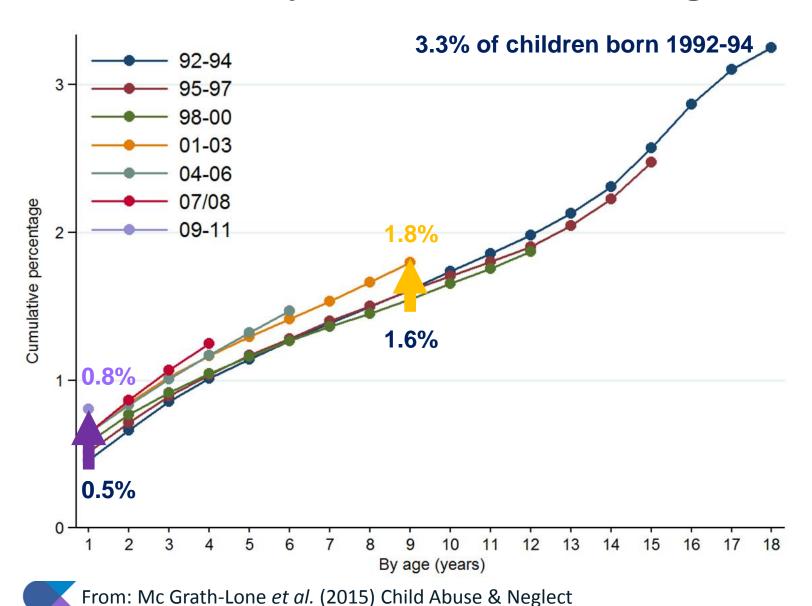
### 1 in 30 children in England enter OHC





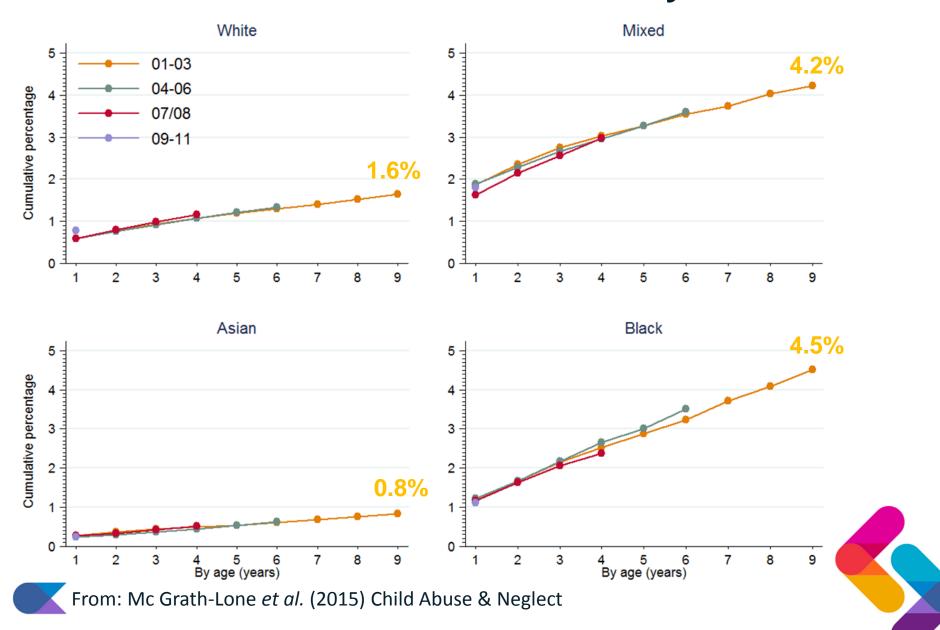
From: Mc Grath-Lone et al. (2015) Child Abuse & Neglect

### Rates of entry to care are increasing





### Some ethnic minorities are more likely to enter care



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## Children are placed in a variety of OHC settings





Foster care by:

- relatives
- family friends
- strangers



#### **Group setting**

Children's home

Mother & baby unit

Residential school

Supported living unit

Health-related institution



### **Other settings**

Independent living

Secure unit

Young offenders' institute





### Most children are placed in family care

First placement by year of birth and age at first entry

	Born in 1992			Born in 2000			Born in 2008		
	Family	Group	Other	Family	Group	Other	Family	Group	Other
<1 year	90%	8%	2%	90%	10%	0%	91%	9%	0%
1 to 4 years	96%	2%	2%	98%	2%	0%	99%	1%	0%
5 to 10 years	91%	8%	1%	96%	4%	0%			
11 to 15 years	73%	23%	4%						
16+ years	30%	35%	35%						



### Children are more likely to be placed in family care

First placement by year of birth and age at first entry

	<b>Born in 1992</b>		Born in 2000			Born in 2008			
	Family	Group	Other	Family	Group	Other	Family	Group	Other
<1 year	90%	8%	%	90%	10%	%	91%	9%	0%
1 to 4 years	96%			98%			99%	1%	0%
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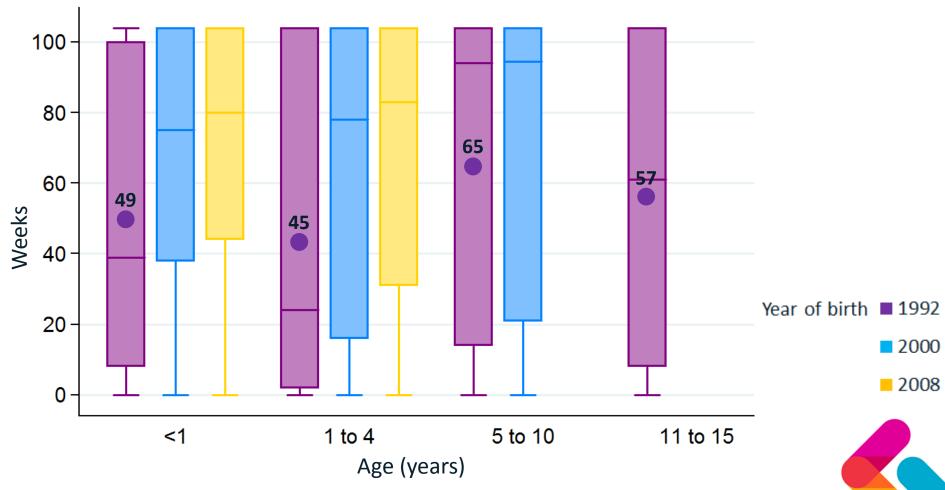
- Number of children in care
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- Type of care
   e.g. setting, support, access to services
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### Average time spent in care varies by age

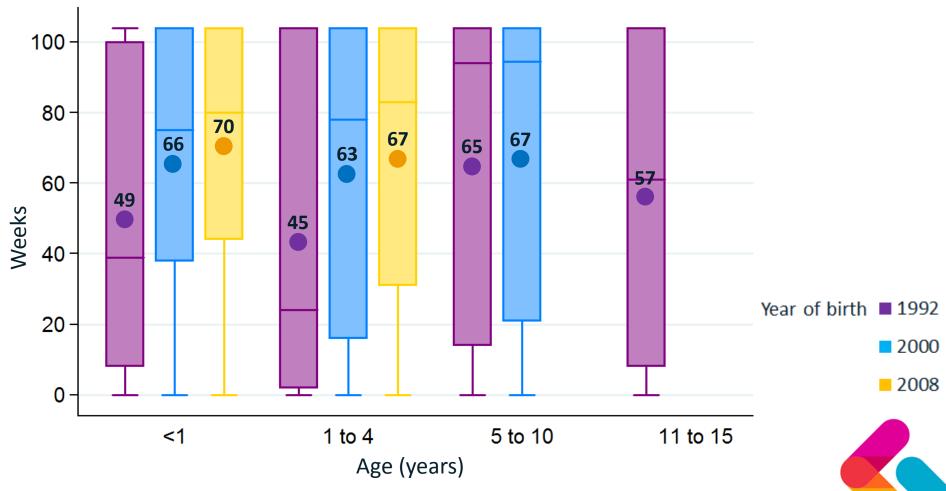
Weeks in out-of-home care in the two years following first entry to care



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### Average time spent in care is increasing

Weeks in out-of-home care in the two years following first entry to care



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   e.g. <u>re-entry to care</u>, number of placement moves, destination





### Modes of exit from out-of-home care in England

#### Return home

No longer looked after

# Placed with parents

Local authority retains role of corporate parent

#### Adopted

Transfer of all parental rights

# Special guardianship order

Transfer of most parental rights

# Residence order

Transfer of some parental rights

# Sentenced to custody

Moves to YOI or prison

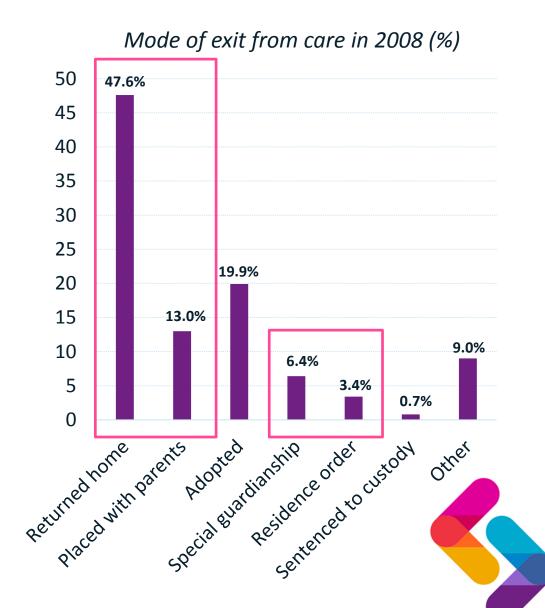


### Most children return home when exiting care

Overall 5,226 children aged <16 years exited out-of-home care in 2008

More than 60% returned home to their parents

Almost one in five children were adopted





### **Exclusions from re-entry analysis**

When child is adopted they acquire a new legal identity.

 If they re-enter care, it will not be linked to their previous care history.

Children sentenced to custody cannot re-enter care until they have completed their sentence.

This will affect re-entry timings.

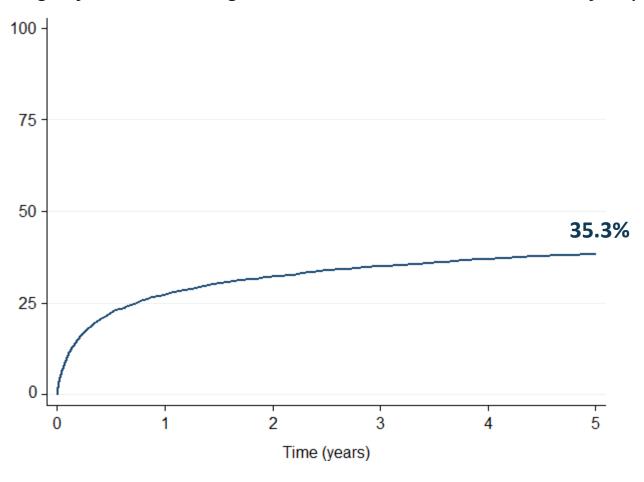


Re-entry can be explored for 4,076 children



### More than one-third of children re-enter care

Percentage of children exiting care in 2008 who re-entered within five years

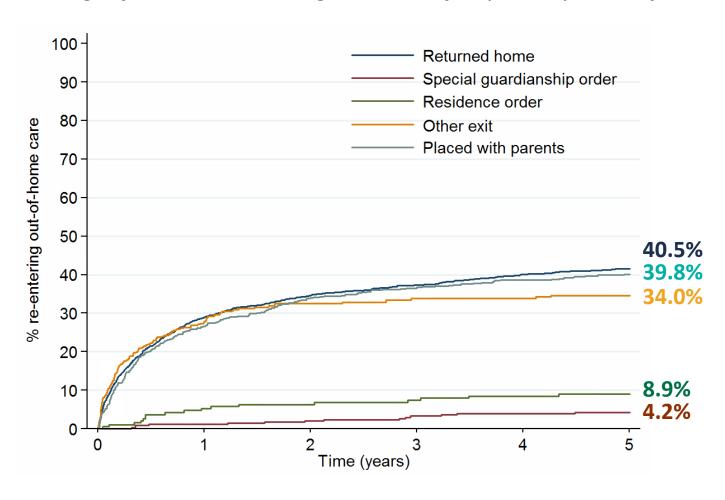






# Children who exit via a special guardianship order are least likely to re-enter

Percentage of children re-entering care within five years, by mode of exit

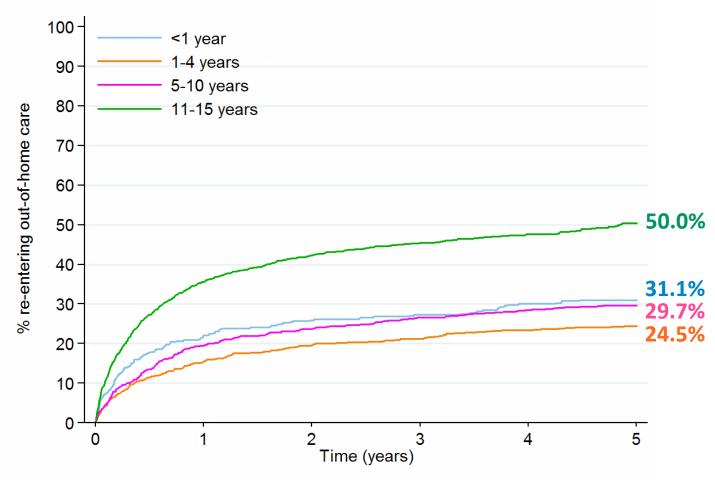






### Children aged 11-15 are most likely to re-enter

Percentage of children re-entering care within five years, by age group





### Effect of child characteristics

Children aged 11 or older have up to 50% higher hazard of re-entering care compared to younger children.

White or Mixed ethnicity also have 50% higher hazard of re-entry.

Sex has no effect on reentry.

Hazard ratio for child factors with constant proportional hazards

Age group	HR	p-value
<1	(ref)	
1 to 4	0.98	0.64
5 to 10	0.89	0.30
11 to 15	1.49	<0.001
Ethnicity		
White or Mixed	1.50	< 0.001
Black, Asian or Other	(ref)	
Sex		
Male	(ref)	
Female	0.99	0.81



### **Effect of other care factors**

	0 to 3 months		
	HR	p-value	
In care due to family			
stress/dysfunction	1.48	<0.001	
In care due to child's			
disability	1.30	0.35	
In care due to absent			
parenting	0.54	0.03	
Previous exit from out-			
of-home care	1.44	<0.001	
Average placement is			
3-9 months long	0.46	< 0.001	
Average placement is			
>9 months long	0.34	< 0.001	
1-4 placement changes			
overall	1.03	0.63	
>5 placement changes			
overall	1.50	<0.001	
In care voluntarily (i.e.			
not court-mandated)	1.83	<0.001	





### What factors affect re-entry to care?

### More likely to re-enter care

A history of previous exits

In care due to child's disability, family

stress or dysfunction\*

Placed with parents or "Other" mode

of exit\*

Aged >11 when exiting care

White or Mixed ethnicity

Short average placement length\*

High number of placement changes\*

Voluntarily in care

### **Less likely to re-enter care**

First exit from care

In care due to absent parenting\*

Returned home or exit under a legal order\*

Aged <11 when exiting care

White or Mixed ethnicity

Long average placement length\*

Low number of placement changes\*

In court-mandated care

\* Time-varying effects





### Predicting re-entry to care

### More likely to re-enter care

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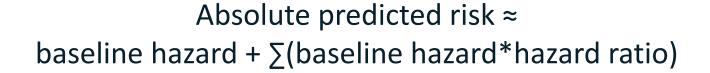
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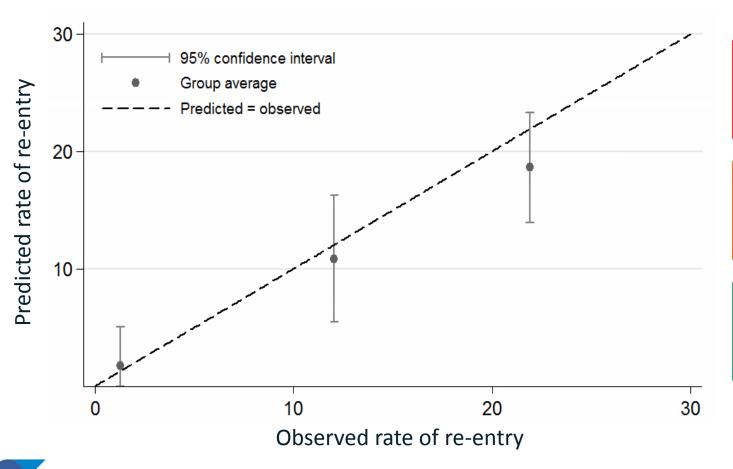






### Calibrate predictive model

- Restricted to rapid re-entry within 3 months (time-varying hazards)
- Three risk groups: **low** (<5%), **medium** (5-15%) & **high** (>15%)
- Plot average predicted risk against average observed risk for each group



High-risk:

Obs = 21.9%

Pred = 18.6%

Medium-risk:

Obs = 12.0%

Pred = 10.9%

Low-risk:

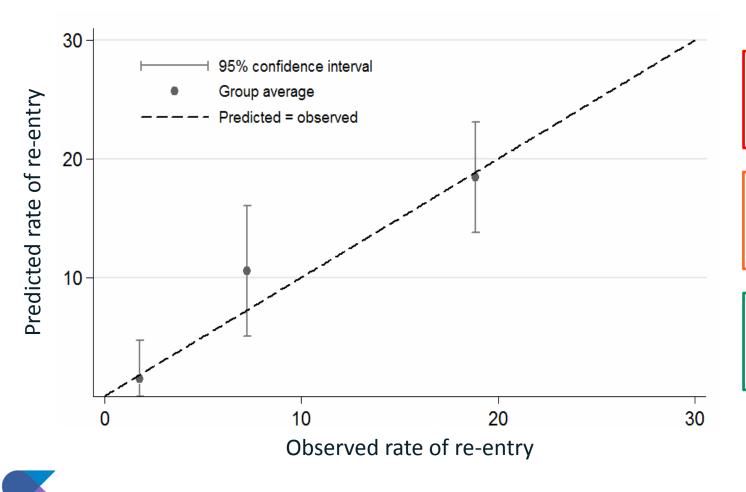
Obs = <1%

Pred = <1%



### Validate predictive model

- Using external dataset of children who exited care in 2012 (N=4,650)
- Develop an online calculator based on validates predictive model



High-risk:

Obs = 18.8%

Pred = 18.4%

Medium-risk:

Obs = 7.2%

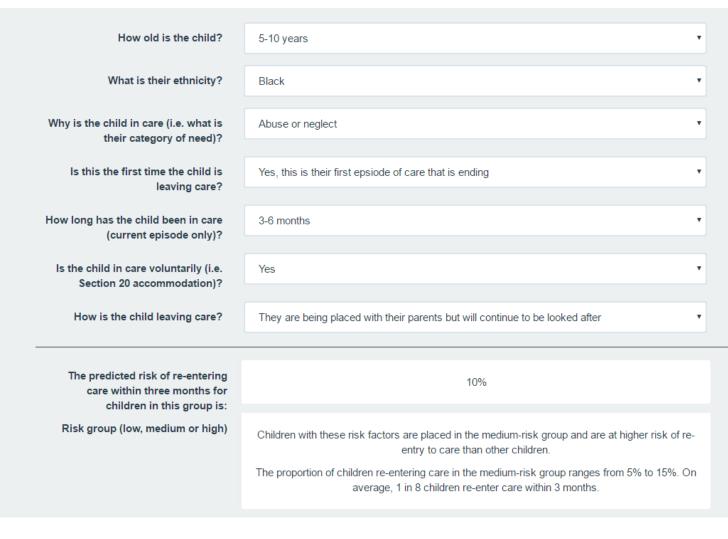
Pred = 10.5%

Low-risk:

Obs = 1.7%

Pred = 1.4%





Will be published online and freely available Contact <a href="mailto:louise.mc-grath-lone.13@ucl.ac.uk">louise.mc-grath-lone.13@ucl.ac.uk</a> for details





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**Questions?** 



