

ScotCen

Social Research that works for society



Developing an understanding of children's education experiences: linked education data in the Growing Up in Scotland study



What is GUS?

- Large-scale longitudinal birth and child cohort study involving national samples
- Three cohorts:
 - Birth cohort 1: 5217 children, born 2004/05, aged 10.5 months at the 1st interview
 - Child cohort: 2859 children, born 2002/03, aged 34.5 months at the 1st interview
 - Birth cohort 2: 6127 children, born 2010/11 aged 10.5 months at the 1st interview
- Began in 2005 and has been running continuously since then



Ages and stages (so far...)

Child's age	Cohort/Year of data collection		
	Child cohort	Birth cohort 1	Birth cohort 2
10 months		2005/06	2010/11
Age 2		2006/07	
Age 3	2005/06	2007/08	2013
Age 4	2006/07	2008/09	
Age 5	2007/08	2009/10	2015
Age 6	2008/09	2010/11	
Age 8		2012/13	
Primary 6 (Age 10)		2014/15	

Sources of information

10mths

BC1 &
BC2

Age 2

BC1

Age 3

CC, BC1,
BC2

Age 4

CC & BC1

Age 5

CC, BC1,
BC2

Age 6

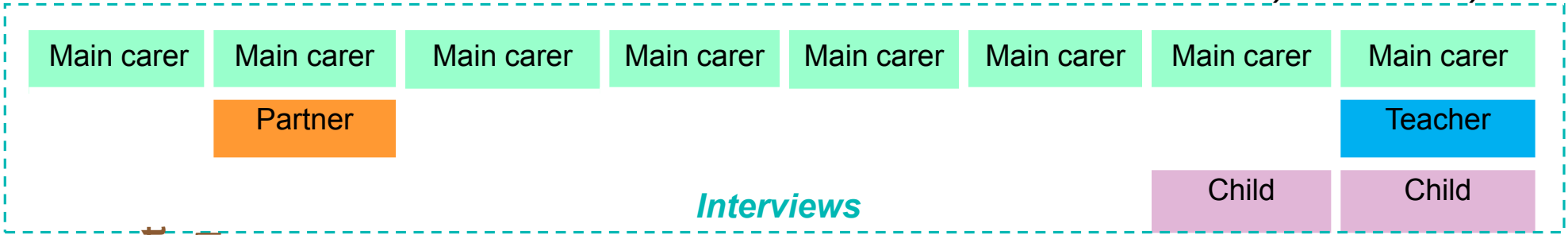
BC1

Age 8

BC1 (&
BC2?)

P6

BC1 (&
BC2?)



Interviews

Obj.
assessment

Ch. height
& weight

Ch. height
& weight

Ch. height
& weight

Ch. height
& weight

Ch. height &
weight

Cognitive
assessmts

Cognitive
assessmts

Cognitive
assessmts

Health
records

Health
records

Health
records

Health
records

Health
records

Health
records

Health
records

Health
records

Pre-School
details

Pre-School
details

School
records

School
records

School
records

School
records

Linked admin

linked admin

Health records	Health records	Health records	Health records	Health records	Health records	Health records	Health records
		Pre-School details	Pre-School details	School records	School records	School records	School records

anked :

Pre-School
details

Pre-School
details

School
records

School
records

School
records

School
records

Linked education data



■ Pre-school

- Information from Care Inspectorate and Education Scotland
- Provided at pre-school level – i.e. information about the pre-school rather than the child – so no transfer of personal details but consent obtained
- Includes inspection grades/quality indicators, number of registered places, number and qualifications of staff



■ School

- Information held by ScotXEd
- School and pupil level data – linked using pupil level information with consent
- Pupil data includes attendance and absence, additional support needs
- School data includes denomination, number of pupils



Linked pre-school data



■ Care Inspectorate

- Provided list of all daycare of children services registered as providing pre-school education between 2007 to 2010
- Included inspection grades on four themes: quality of care and support; quality of environment; quality of staffing; quality of management and leadership
- Other information where available, e.g. type/funding (LA, partnership), number of registered places, number and qualifications of staff



■ Education Scotland

- Evaluations on QIs from all inspections on pre-school settings from 2008 to 2014
- Five QIs: improvement in performance; children's experiences; meeting learning needs; the curriculum; improvement through self-evaluation



Matching the admin data



GUS survey:
Pre-school
provider details
for 3691 children

**Care
Inspectorate:**
daycare of
children services
providing pre-
school education

Matched for 99% of
children.
1296 'unique' pre-school
centres.
Grades for 3000 children

Education Scotland
1244 centres matched
QI data available for
1086 children



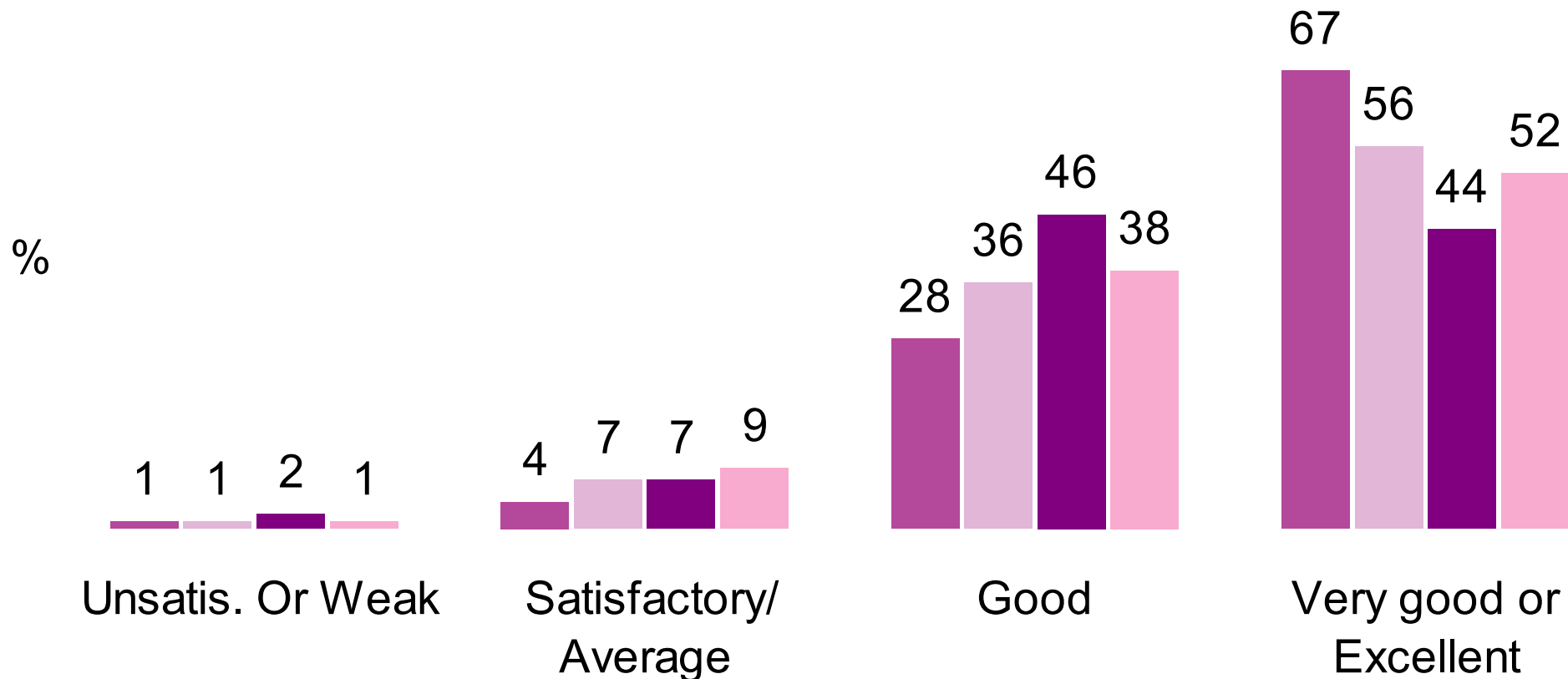
ay	8.270677	4247.561	48.28767	32.7
Pa	9.337349	1459.109	48.68805	51.3
Gr	11.67315	3670.115	46.36591	31.7
ne	17.9941	3254.487	42.16867	13.7
En	17.24138	4857.471	46.10895	21.6
ree	5.48926	4290.566	43.06785	32.2
an	10.41162	3563.636	50.47022	32.4
ay	16.11842	2469.512	47.97136	36.3
ay	15.40541	5200	43.75	22.6
os:	25.90909	2829.054	42.97297	15.9
e	4.868914	2013.38	52.27273	32.8
C	11.11111	1209.251	38.20225	37.8
v	7.38255	4157.692	47.40741	43.6
H	9.343936	3926.027	48.65772	13.4
k	15.70513	2668.047	44.334	27.7
		3705.738	48.07692	26.8
		2619.266	43.09623	18.2
			48.07692	29.7
			43.09623	37.9

ay	8.270677	4247.561	48.28767	32.7
Pa	9.337349	1459.109	48.68805	51.3
Gr	11.67315	3670.115	46.36591	31.7
ne	17.9941	3254.487	42.16867	13.7
En	17.24138	4857.471	46.10895	21.6
ree	5.48926	4290.566	43.06785	32.2
an	10.41162	3563.636	50.47022	32.4
ay	16.11842	2469.512	47.97136	36.3
ay	15.40541	5200	43.75	22.6
os:	25.90909	2829.054	42.97297	15.9
e	4.868914	2013.38	52.27273	32.8
C	11.11111	1209.251	38.20225	37.8
v	7.38255	4157.692	47.40741	43.6
H	9.343936	3926.027	48.65772	13.4
k	15.70513	2668.047	44.334	27.7
		3705.738	48.07692	26.8
		2619.266	43.09623	18.2
			48.07692	29.7
			43.09623	37.9

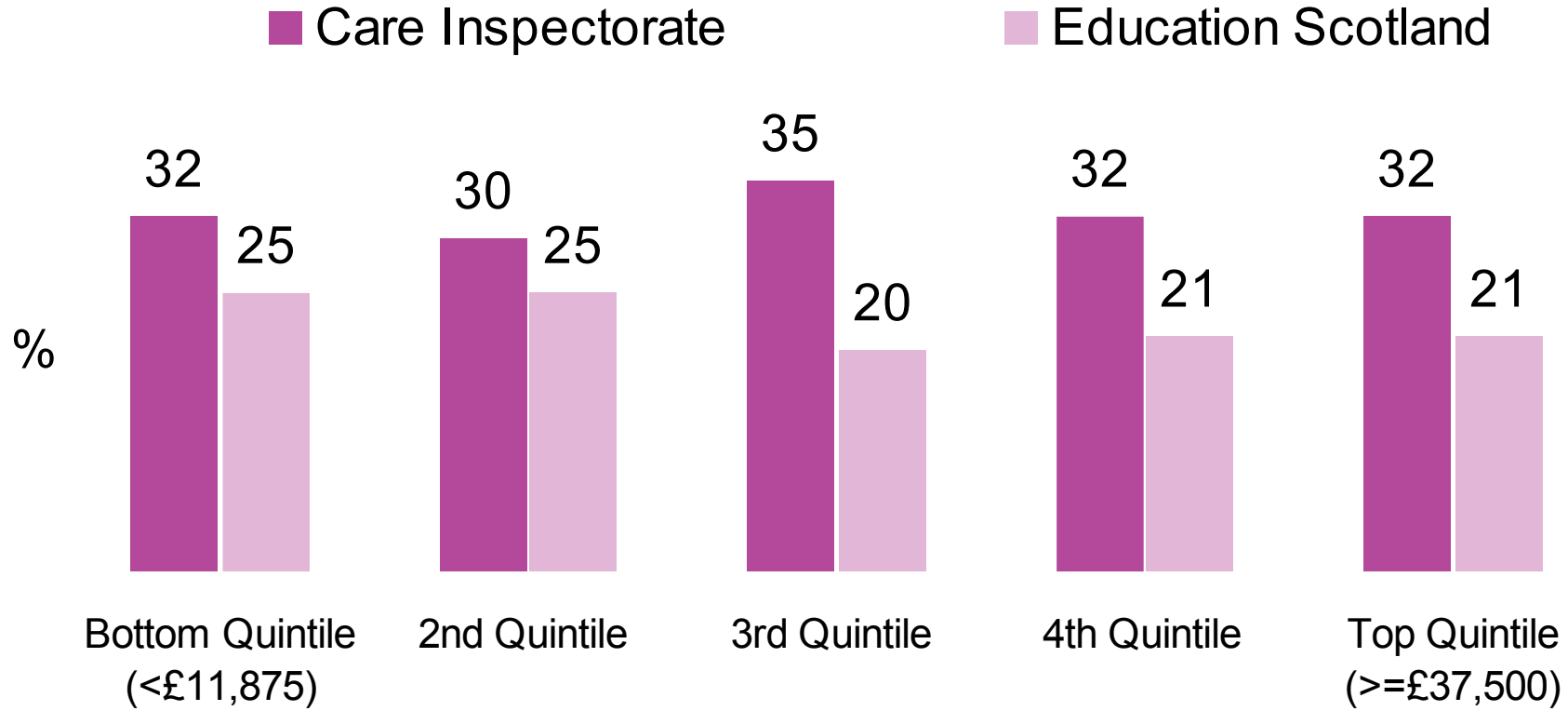
% of children attending pre-school centres with the following Care Inspectorate grades

Care and support
Staffing

Environment
Management and leadership



% of children attending a centre graded very good or excellent on all CI or all ES QIs, by hhold income



Linked school data

- Written consent obtained during child's P1 year
- Data is held/provided by ScotXEd and taken from annual school and pupil censuses
- Linked at pupil level using deterministic linkage
- Identifiers:
 - Date of birth
 - Home postcode
 - Sex
 - School name/SEED code



Consent and linkage rates

Consent obtained for **3634 children** – 95% of those asked



3534 cases sent to ScotXEd for matching (sw6 consented only)



Matching run against 2009 and 2010 pupil census datasets
3365 cases (95%) successfully matched



3034 (90%) matched on all 4 variables
268 (8%) matched on DoB, sex and school ID (home movers)
63 (2%) matched on DoB, sex and home postcode (school movers)

What data does it give us?



■ Pupil level:

- Attendance and absence (i.e. number of half-days attended/absent and reasons for absence – e.g. number of half days sick)
- Census: e.g. stage (e.g. P1, P2), ASN indicators, mainstream/special education, disability, looked after status, free school meal entitlement
- Exclusions: e.g. length of exclusion, alternative education provision

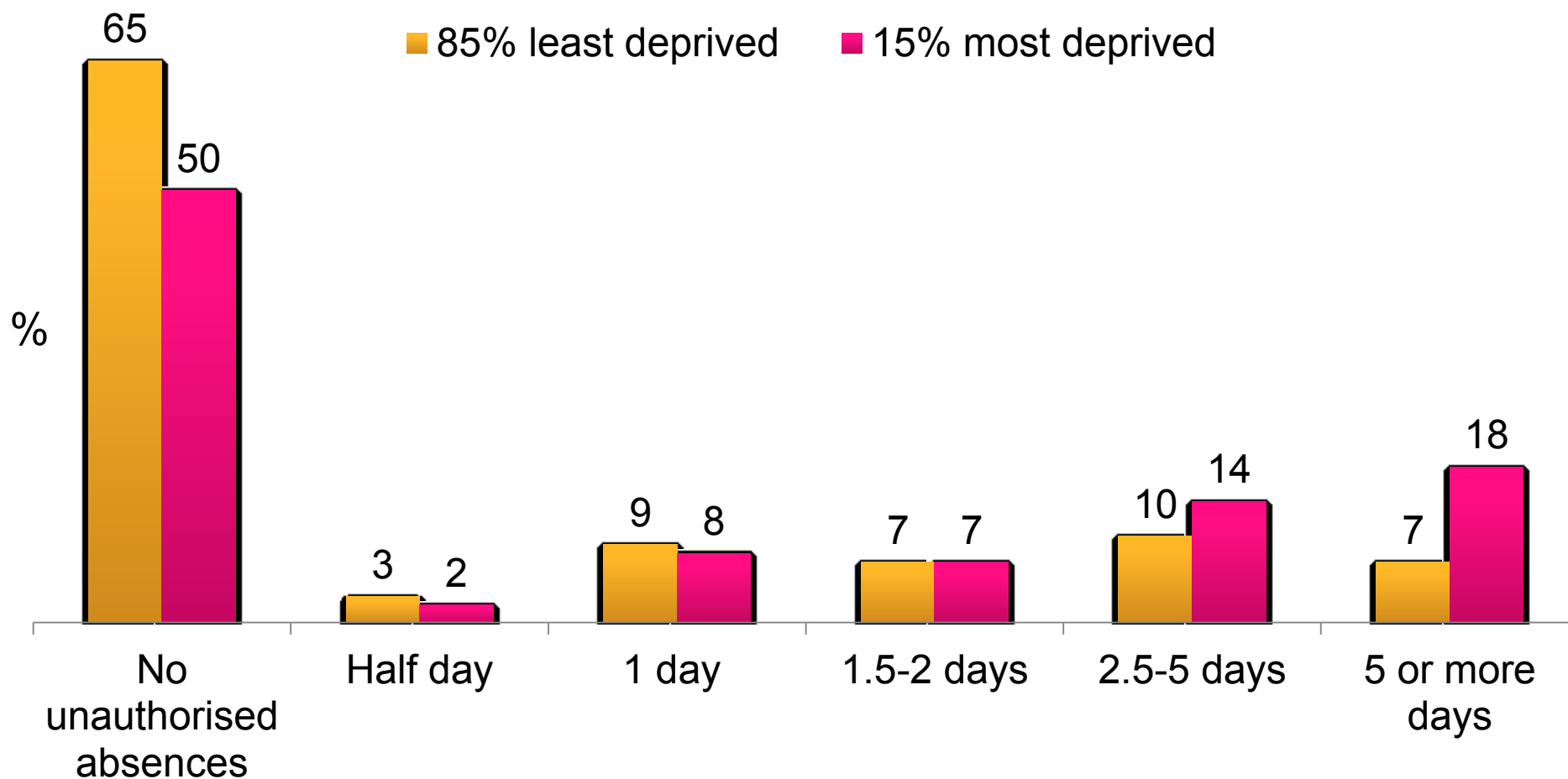


■ School level:

- School roll and class size (also includes no. of teachers)
- ‘Other establishment data’: e.g. primary/secondary, special school, denomination
- School level attendance, exclusions, FSMs, teacher numbers

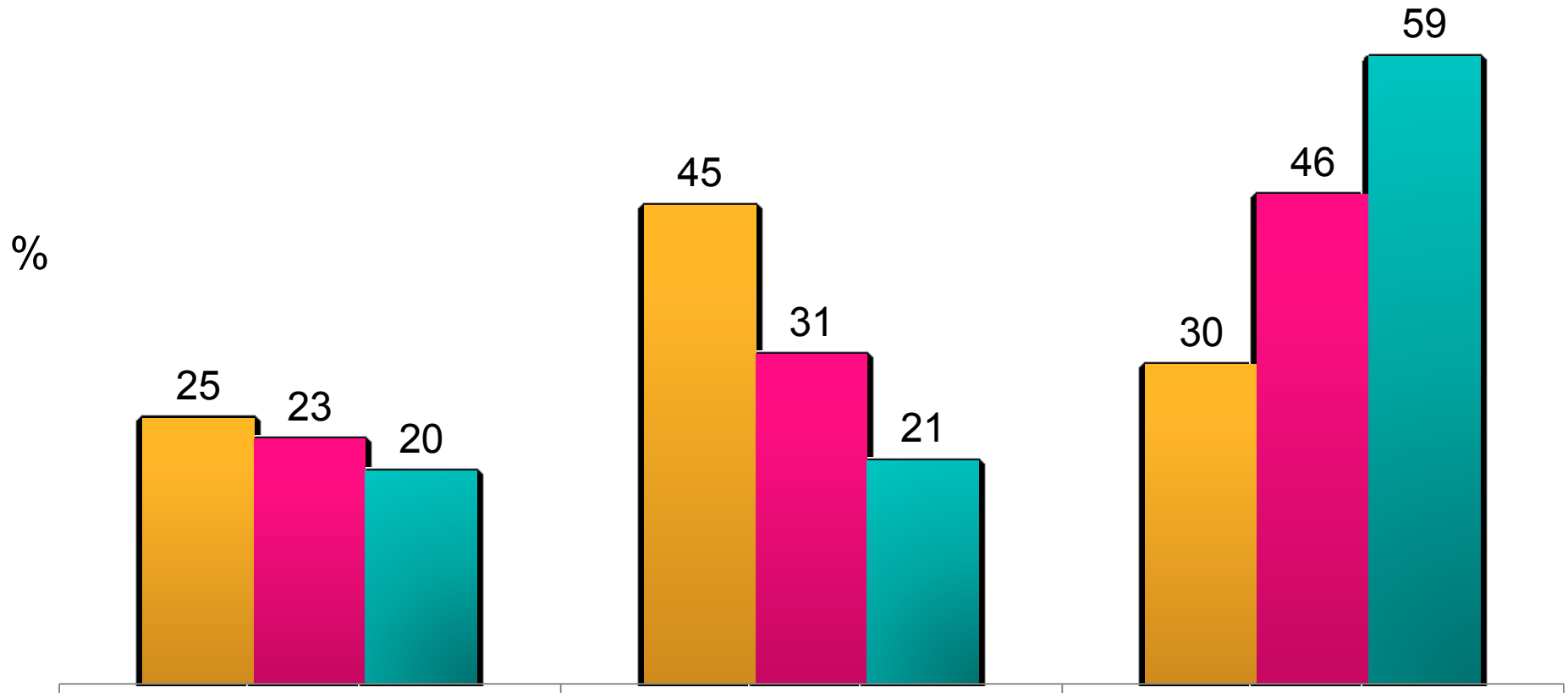


% of children recording unauthorised absence in P1 by area deprivation



% of P1 children recording absence due to sickness by parent reported general health

Very good Good Fair or poor



Thank you

For more information, please visit our website:
www.growingupinScotland.org.uk