How a collective impact initiative contributed to outcomes of early years children in Lambeth Programme-wide analysis of Lambeth Early Action Partnership using linked population datasets

Analytical output





Analytical output for LEAP's programme-wide analysis of child outcomes using linked population datasets

This slide deck is a supplementary output of the report and posters presenting findings from LEAP's programme-wide analysis of child outcomes using linked population datasets.

Contextual information, summarised results and interpretation of findings can be found in the report titled 'How a collective impact initiative contributed to outcomes of early years children in Lambeth: Programme-wide analysis of Lambeth Early Action Partnership using linked population datasets'. There are also two posters presenting findings for each specific analysis.

A full description of the methodology can be found in a supplementary paper titled 'Methodology paper to support programme-wide analysis of Lambeth Early Action Partnership using linked population datasets on child outcomes'.

These can be found on the LEAP website (story-of-leap.leaplambeth.org.uk)

Analytical output of LEAP's programme-wide analysis of child outcomes using linked population datasets

This document presents charts and tables generated during each analysis:

- 1. Output from analysis of LEAP service engagement data linked to population data from the Lambeth health visiting service about developmental outcomes at 2.5 years, using the Ages and Stages Questionnaire (ASQ-3).
- 2. Output from analysis of LEAP service engagement data linked to population data from the about developmental outcomes for children at the end of reception, using the Early Years Foundation Stage Profile(EYFSP).

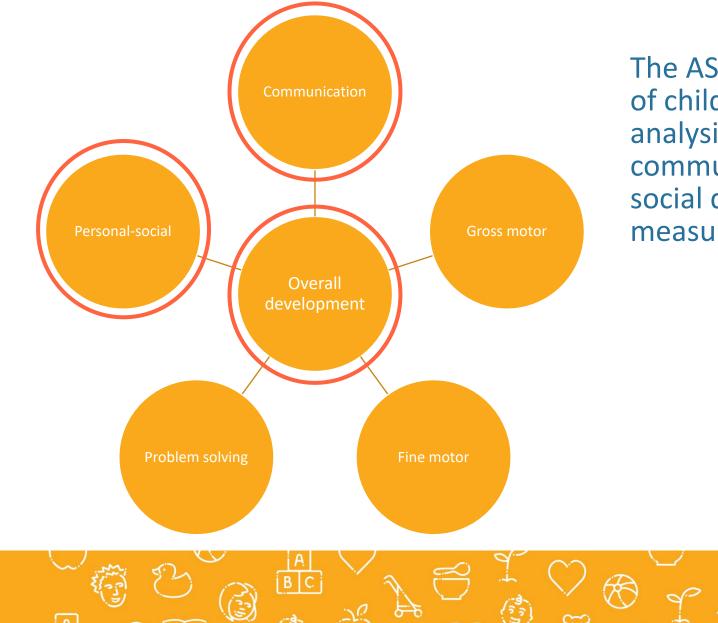


Analytical output of LEAP's programme-wide analysis of child outcomes using linked population datasets: terminology

LEAP	Lambeth Early Action Partnership.
ASQ-3	Ages and Stages Questionnaire – validated assessment of child development.
EYFSP	Early Years Foundation Stage Profile – developmental assessment of reception children.
IDACI	Indices of Deprivation Affecting Children Index – child specific measure of area deprivation.
НСР	Healthy Child Programme – national programme for children with three levels of support via health visiting.
Family engagement flag	Flag created to identify children who have engagement recorded for a LEAP service relevant to the outcome domains, either directly or via their parent or carers engagement.
Multiple service use	Children who have engagement recorded for at least two LEAP services, either directly or via their parent or caregivers.



The Ages and Stages Questionnaire (ASQ-3) – what is assessed?



The ASQ-3 assesses five domains of child development. This analysis focused on the communication and personalsocial domains, and a combined measure of overall development.

ASQ-3: The dataset

- All children with a an ASQ assessment recorded in the platform (2015-2023) and their user data were linked to LEAP service engagement records either for themselves, or for parents or caregivers.
- Data was restricted to any assessments from 1 January 2019 to the 30 September 2023 (the latest data point available in the platform) and a threshold was applied to ensure engagement that happened too close to or after the assessment was excluded.
- Analysis was carried out for any LEAP service and with a more restricted list using a list of services agreed to be most relevant to developmental outcomes at 2.5 years. This list was agreed upon with LEAP topic matter experts.

Final linked dataset: N=10,593



ASQ-3: Overview of the data



In the sample of children from the LEAP area, 668 (36%) children had family engagement recorded for a relevant service.



ASQ-3 Univariate tables: demographics

Number and percentage of 2.5year-old children from the LEAP area by broad ethnicity group.

Ethnicity	Frequency	Percent
White	621	33.44
Asian	150	8.09
Black	557	30.1
Mixed	100	5.39
Other	16	0.81
Unknown	409	22.17
Total	1,853	100

Number and percentage of 2.5year-old children from the LEAP area by locally derived IDACI (Income Deprivation Affecting Children Index) quintile

IDACI	Frequency	Percent
Most		
deprived	1,325	71.51
Deprived	359	19.37
Mid point	67	3.62
Not deprived	102	5.5
Least		
deprived	0	0
Total	1,853	100

Number and percentage of 2.5-year-old children from the LEAP area by healthy child programme (HCP) status

НСР		
status	Frequency	Percent
Universal	1,702	91.85
Targeted	115	6.21
Specialist	32	1.73
Missing	4	0.22
Total	1,853	100

Number and percentage of 2.5-year-old children from the LEAP area by sex

Sex	Frequency	Percent
Female	922	49.76
Male	931	50.24
Total	1853	100

ASQ-3 Univariate tables: engagement and outcomes

Number and percentage of 2.5-year-old children from the LEAP area by LEAP service engagement status Number and percentage of 2.5-year-old children from the LEAP area by overall development category Number and percentage of 2.5-year-old children from the LEAP area by communication development category

ASQ_comm	Frequency	Percent
Not expected	176	9.49
Reaching	1 677	00 51
expected	1,677	90.51
Total	1,853	100

Number and percentage of 2.5-year-old children from the LEAP area by personal, social development category

ASQ_PS	Frequency	Percent
Not expected	203	10.95
Reaching expected	1,650	89.05
Total	1,853	100

Engagement flag	Frequency	Percent
No relevant		
LEAP		
engagement	1,185	61.54
Relevant		
LEAP		
engagement	668	38.46
Total	1,853	100

ASQ_overall	Frequency	Percent
		40.00
Not expected	334	18.02
Reaching		
expected	1,519	81.98
Total	1,853	100

ASQ-3 Bivariate tables – overall development

Number and	
percentage of 2.5-year-	
old children from the	ĺ
LEAP area by overall	
development category	
and ethnicity	

				Ethnicity categories					
-	ASQ_overall		Asian	Black	Mixed	Other	White	Total	
		n	39	106	17	2	96	260	
	Not expected	%	26	19.03	17	12.5	15.46	18	
		n	111	451	83	14	525	1,184	
	Expected	%	74	80.97	83	87.5	84.54	82	
		n	150	557	100	16	621	1,444	
	Total	%	100	100	100	100	100	100	

Number and percentage of 2.5-yearold children from the LEAP area by overall development category and deprivation quintile

			IDACI categories (no children lived in areas of least deprivation in Lambeth)					
		Most (no			Not			
ASQ_overall		least)	Deprived	Mid-point	deprived	Total		
	n	238	62	13	16	329		
Not expected	%	17.96	17.27	19.4	15.69	17.75		
	n	1087	297	54	86	1524		
Expected	%	82.04	82.73	80.6	84.31	82.25		
	n	1325	359	67	102	1853		
Total	%	100	100	100	100	100		



ASQ-3 Bivariate tables – overall development

Number and percentage of 2.5year-old children from the LEAP area by overall development category and HCP category

		НСР				
ASQ overall		Universal	Targeted	Specialist	Total	
	n	286	34	8	328	
Not expected	%	16.8	29.57	25	17.7	
	n	1,416	81	24	1,521	
Expected	%	83.2	70.43	75	82.3	
	n	1,702	115	32	1,849	
Total	%	100	100	100	100	

Number and
percentage of 2.5-
year-old children
from the LEAP area
by overall
development
category and sex

		Se	ex	
ASQ overall		Female	Male	Total
	n	126	203	329
Not expected	%	13.67	21.8	17.75
	n	796	728	1524
Expected	%	86.33	78.2	82.25
	n	922	931	1853
Total	%	100	100	100

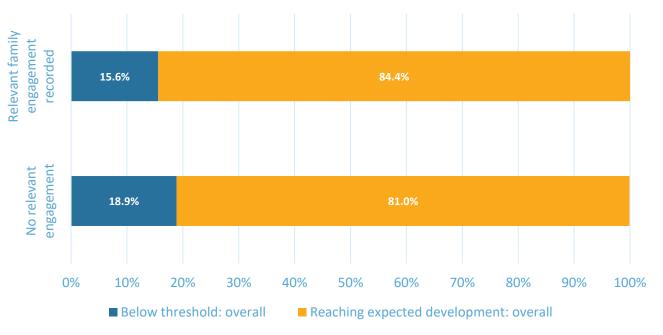
LEAP

ASQ-3 Bivariate tables – overall development

Number and percentage of 2.5-year-old children from the LEAP area by overall development category and family engagement

		Family enga		
		No relevant	Relevant	
ASQ overall		engagement	engagement	Total
	n	225	104	329
Not expected	%	18.99	15.57	17.75
	n	960	564	1,524
Expected	%	81.01	84.43	82.25
	n			
Total	%	100	100	100

Percentage of children reaching expected development across all 5 ASQ domains, by LEAP engagement status with relevant services





Multivariate logistic regression: overall development

Logistic	Number of	
regression	obs	1,442
	LR chi2(7)	41.24
	Prob > chi2	0
Log likelihood =	_	
658.28119	Pseudo R2	0.0304

asq_overall	Odds ratio	Std. err.	Z	P>z	[95% conf.	interval]
fam_eng						
	0 1	L(base)				
	1 1.38	0.2 1	2.13	0.03	1.03	1.85
ethnicity_log						
	0 1	L(base)				
	1 0.5	5 0.11	-3.12	0.002	0.32	0.77
	2 0.82	0.13	-1.22	0.22	0.60	1.13
	3 0.87	0.25	-0.49	0.62	0.49	1.54
	4 1.18	0.9 1	0.21	0.83	0.26	5.32
idaci_log						
	1 1.1	L 0.37	0.28	0.78	0.57	2.13
	2 1.16	6 0.42	0.4	0.69	0.57	2.34
	3 1.21	L 0.6	0.39	0.69	0.46	3.19
	4 1	L(base)				
gender						
Female	1	L(base)				
Male	0.54	4 0.08	-4.29	0	0.41	0.72
hcp_log						
	0 1	L(base)				
	1 0.53	0.13	-2.67	0.008	0.33	0.84
	2 0.86	6 0.49	-0.27	0.78	0.28	2.61
cons	6.421	L 2.16	5.53	0	3.32	12.41

ASQ-3 Bivariate tables – communication development

BC

Number and				Ethnicity categories				
percentage of 2.5-year- old children from the LEAP area by communication	ASQ_comm		Asian	Black	Mixed	Other	White	Total
		n	21	57	12	1	48	139
	Not expected	%	14	10.22	12	6.25	7.74	9.63
development category		n	129	500	88	15	573	1,304
and ethnicity	Expected	%	86	89.78	88	93.75	92.27	90.37
		n	150	557	100	16	621	1,443
	Total	%	100	100	100	100	100	100

Number and
percentage of 2.5-year-
old children from the
LEAP area by
communication
development category
and deprivation
quintile

			IDACI categories (no children lived in areas of least deprivation in Lambeth)					
		Most (no			Not			
ASQ_comm		least)	Deprived	Mid-point	deprived	Total		
	n	129	35	6	6	176		
Not expected	%	9.74	9.75	8.96	5.88	9.5		
	n	1196	324	61	96	1677		
Expected	%	90.26	90.25	91.04	94.12	90.5		
	n	1325	359	67	102	1853		
Total	%	100	100	100	100	100		



ASQ-3 Bivariate tables – communication development

Number and percentage of 2.5year-old children from the LEAP area by communication development category and HCP category

		НСР				
ASQ_comm		Universal	Targeted	Specialist ⁻	Total	
	n	147	24	5	176	
Not expected	%	8.63	20.87	15.63	9.51	
	n	1,555	91	27	1,674	
Expected	%	91.37	79.13	84.38	90.49	
	n	1,702	115	32	1,850	
Total	%	100	100	100	100	

Number and percentage of 2.5year-old children from the LEAP area by communication development category and sex

		S		
ASQ_comm		Female	Male	Total
	n	70	106	176
Not expected	%	7.59	11.39	9.5
	n	852	825	1,677
Expected	%	92.41	88.61	90.5
	n	922	931	1,853
Total	%	100	100	100

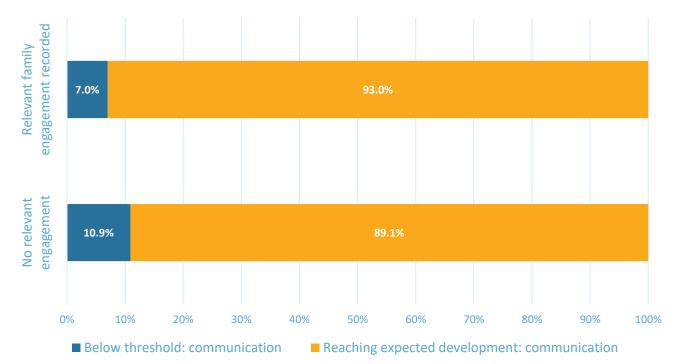


ASQ-3 Bivariate tables – communication development

Number and percentage of 2.5-year-old children from the LEAP area by communication development category and family engagement

		Family enga		
		No relevant	Relevant	
ASQ_comm		engagement	engagement	Total
	n	129	47	176
Not expected	%	10.89	7.04	9.5
	n	1,056	621	1,677
Expected	%	89.11	92.96	90.5
	n	1,185	668	1,853
Total	%	100	100	100

Percentage of children reaching expected development in communication, by LEAP engagement status with relevant services



Multivariate logistic regression: communication development

Logistic	Number of	
regression	obs	1,442
	LR chi2(7)	33.67
	Prob > chi2	0.0004
Log		
likelihood =	-	
658.28119	Pseudo R2	0.0368

comm_log	Odds ratio	Std. err.	z	P>z	[95% conf.	interval]
fam_eng						
() 1	(base)				
1	L 1.74	0.36	2.7	0.01	1.16	2.60
ethnicity_log						
() 1	(base)				
1	L 0.53	0.15	-2.2	0.03	0.31	0.93
2	0.84	0.18	-0.81	0.42	0.56	1.27
3	0.63	0.22	-1.32	0.19	0.32	1.25
4	1.29	1.4	0.24	0.81	0.16	10.08
idaci_log						
1	L 0.48	0.29	-1.19	0.23	0.15	1.59
2	0.49	0.31	-1.13	0.26	0.14	1.69
3	0.68	0.54	-0.48	0.63	0.14	3.25
4	1 1	(base)				
gender						
Female	1	(base)				
Male	0.60	0.11	-2.72	0.01	0.42	0.87
hcp_log						
() 1	(base)				
1	L 0.43	0.12	-2.99	0.003	0.25	0.75
2	0.56	0.36	-0.9	0.37	0.16	1.97
2	0.57	0.36	-0.88	0.38	0.16	1.99

ASQ-3 Bivariate tables – personal-social development

Number and percentage
of 2.5-year-old children
from the LEAP area by
personal-social
development category
and ethnicity

ge					Ethnicity	/		
า	ASQ_PS		Asian	Black	Mixed	Other	White	Total
		n	25	61	12	1	60	159
	Not expected	%	16.67	10.93	12	6.25	9.68	11.02
		n	125	496	88	15	561	1,285
	Expected	%	83.33	89.07	88	93.75	90.32	88.98
		n	150	557	100	16	621	1,444
	Total	%	100	100	100	100	100	100

Number and percentage of 2.5-year-old children from the LEAP area by personal-social development category and deprivation quintile

ge			IDACI categ	Total 203 10.96 1,650 89.04 1,853 100			
			Most			Not	
	ASQ_PS		deprived	Deprived	Mid-point	deprived	Total
,		n	148	39	9	7	203
le	Not expected	%	11.17	10.86	13.43	6.86	10.96
		n	1,177	320	58	95	1,650
	Expected	%	88.83	89.14	86.57	93.14	89.04
		n	1,325	359	67	102	1,853
	Total	%	100	100	100	100	100



ASQ-3 Bivariate tables – personal-social development

Number and percentage of 2.5year-old children from the LEAP area by personal-social development category and HCP category

			НСР				
ASQ_PS		Universal	Targeted	Specialist	Total		
	n	170	29	4	203		
Not expected	%	9.98	25.22	12.5	10.97		
	n	1,532	86	28	1,647		
Expected	%	90.02	74.78	87.5	89.03		
	n	1,702	115	32	1,850		
Total	%	100	100	100	100		

Number and percentage of 2.5year-old children from the LEAP area by personal-social development category and sex

		S	ex	
ASQ_PS		Female	Male	Total
	n	63	140	203
Not expected	%	6.83	15.04	10.96
	n	859	791	1,650
Expected	%	93.17	84.96	89.04
	n	922	931	1,853
Total	%	100	100	100

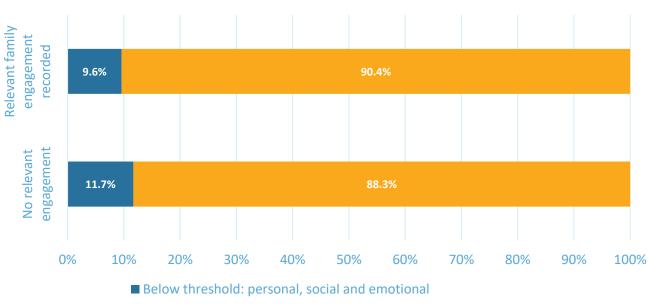


ASQ-3 Bivariate tables – personal-social development

Number and percentage of 2.5-year-old children from the LEAP area by personal social development category and family engagement

		Family enga	gement flag	
		No relevant	Relevant	
ASQ_PS		engagement	engagement	Total
	n	139	64	203
Not expected	%	11.73	9.58	10.96
	n	1,046	604	1,650
Expected	%	88.27	90.42	89.04
	n	1,185	668	1,853
Total	%	100	100	100

Percentage of children reaching expected development in personal-social development, by LEAP engagement status with relevant services



Reaching expected development: personal, social and emotional



Multivariate logistic regression: personal-social development

Logistic	Number of	
regression	obs	1,442
	LR chi2(7)	50.04
	Prob > chi2	0
Log		
likelihood =	-	
658.28119	Pseudo R2	0.05

pse_log	Odds ratio	Std. err	z	P>z	[95% conf.	interval]
fam_eng						
	0 1	(base)				
	1 1.47	0.28	2.07	0.04	1.02	2.13
ethnicity_log						
	0 1	(base)				
	1 0.53	0.14	-2.4	0.02	0.31	0.89
	2 0.97	0.19	-0.18	0.86	0.65	1.43
	3 0.77	0.26	-0.77	0.44	0.39	1.51
	4 1.46	1.54	0.36	0.72	0.19	11.48
idaci_log						
	1 1.05	0.45	0.11	0.91	0.46	2.41
	2 1.08	0.49	0.16	0.87	0.44	2.62
	3 1.09	0.66	0.15	0.88	0.34	3.57
	4 1	(base)				
gender						
Female	1	(base)				
Male	0.43	0.08	-4.66	0	0.30	0.61
hcp_log						
	0 1	(base)				
	1 0.36	0.1	-3.86	0	0.22	0.61
	2 0.45	0.26	-1.39	0.17	0.15	1.39
_cons	13.60	5.81	6.11	0	5.89	31.43

Multivariate logistic regression: multiple service use and overall development

BC

Logistic	Number of	
regression	obs	1,442
	LR chi2(13)	41.48
	Prob > chi2	0
Log likelihood = -		
839.84543	Pseudo R2	0.0306

asq_overall_log	Odds rat	io Std. eri	r. z	P>z	[95% d	conf. interv	val]
Relevant_service_count							
	0	1(base)					
	1	1.24	0.23	1.2	0.228	0.87	1.7
	2+	1.57	0.36	1.97	0.048	1.00	2.4
idaci_log							
	1	1.10	0.37	0.29	0.769	0.57	2.1
	2	1.17	0.42	0.43	0.67	0.57	2.3
	3	1.23	0.61	0.42	0.675	0.47	3.2
	4	1 (base)					
ethnicity_log							
	0	1(base)					
	1	0.50	0.11	-3.12	0.002	0.32	0.7
	2	0.82	0.13	-1.23	0.219	0.6	1.1
	3	0.87	0.25	-0.48	0.631	0.49	1.5
	4	1.18	0.91	0.21	0.833	0.26	5.
	5						
gender		1 (base)					
Female		0.55	0.08	-4.25	0	0.41	0.7
Male							
hcp_log		1(base)					
	0	0.52	0.13	-2.69	0.007	0.33	0.8
	1	0.86	0.49	-0.26	0.798	0.28	2.6
	2	6.45	2.17	5.54	0	3.34	12.4
_cons		1.24	0.26	1.2	0.228	0.87	1.7

LEAP

The Early Years Foundation Stage Profile (EYFSP) – what is



The EYFSP is a statutory assessment of child development conducted by teachers at the end of the reception year.

Children are assessed against 17 Early Learning Goals (ELG) across 7 Areas of Learning (AOL).

Children have a Good Level of Development if they have at least the expected level of development in the Communication and Language, Personal, Social, & Emotional Development, and Physical Development, Mathematics and Literacy.

EYFSP: The dataset

- All children with an EYFSP assessment recorded in the platform (2022 and 2023) and their user data were linked to LEAP service engagement records either for themselves, or for parents or caregivers.
- While the platform includes assessments conducted in 2019 and 2021, numbers of LEAP-engaged children with a 2019 assessment are very low, and assessments were not mandatory in 2021.
- A threshold of 12 months was applied to ensure engagement that happened too close to or after the assessment was excluded.
- A list of relevant services was agreed upon with LEAP strand leads/PH.

Linked dataset: N= 5,354 children



EYFSP: Overview of the data



In the sample of children from the LEAP area, 406 children had family engagement recorded for a relevant service.



EYFSP Univariate tables: demographics 1

Number and percentage of reception-age children from the LEAP area by locally derived IDACI (Income Deprivation Affecting Children Index) quintile

IDACI Quintile	Frequency	Percent
Most deprived	569	73.7
Deprived	147	19.0
Midpoint	25	3
Not deprived	31	4.0
Least deprived	0	0.0
Total	772	100

Number and percentage of receptionage children from the LEAP area by broad ethnicity group.

Ethnicity	Frequency	Percent
White	287	37.2
Asian	63	8.2
Black	349	45
Mixed	62	8.0
Other	11	1.4
Total	772	100

Number and percentage of receptionage children from the LEAP area by sex

Sex	Frequency	Percent	
Male	362		46.9
Female	410		53.1
Total	772		100

EYFSP Univariate tables: demographics 2

Number and percentage of reception-age children from the LEAP area by eligibility for free school meals.

Free School Meals Eligibility	Frequency	Percent
No	514	66.6
Yes	258	33.4
Total	772	100

Number and percentage of reception-age children from the LEAP area by English as an Additional Language (EAL)

English as an Additional Language	Frequency	Percent
No	441	57.1
Yes	331	42.9
Total	772	100



EYFSP Univariate tables: types of LEAP engagement 1

Number and percentage of receptionage children from the LEAP area by engagement with relevant LEAP services

Relevant LEAP Services	Frequency	Percent
No	414	53.6
Yes	358	46.4
Total	772	100

Number and percentage of receptionage children from the LEAP area by engagement with LEAP CLD services

LEAP CLD Services	Frequency	Percent
No	592	76.7
Yes	180	23.3
Total	772	100

Number and percentage of receptionage children from the LEAP area by engagement with LEAP SED services

LEAP SED Services	Frequency	Percent
No	546	70.7
Yes	226	29.3
Total	772	100



EYFSP Univariate tables: types of LEAP engagement 2

Number and percentage of reception-age children from the LEAP area by engagement with targeted LEAP services

LEAP Targeted Services	Frequency	Percent
No	496	64.3
Yes	276	35.8
Total	772	100

Number and percentage of reception-age children from the LEAP area by engagement with universal LEAP services

LEAP Universal Services	Frequency	Percent
ENG_N	509	65.9
ENG_Y	263	34.1
Total	772	100



EYFSP Univariate tables: outcomes

Number and percentage of receptionage children from the LEAP area by overall development category

Overall Development	Frequency	Percent
Not reaching expected	262	33.9
Reaching expected	510	66.1
Total	772	100

Number and percentage of reception-age children from the LEAP area by communication development category

Communication and Language Development	Frequency	Percent
Not reaching expected	75	9.7
Reaching expected	697	90.3
Total	772	100

Number and percentage of reception-age children from the LEAP area by personal, social development category

Personal, Social, and Emotional Development	Frequency	Percent
Not reaching expected	178	23.1
Reaching expected	594	76.9
Total	772	100



EYFSP Bivariate tables – overall development and ethnicity

Number and percentage of reception-age children from the LEAP area by overall development outcome and ethnicity

		Ethnicity					
EYFSP Overall		White	Asian	Black	Mixed	Other	Total
Not reaching expected	n	98	14	132	12	6	262
	%	34.2	22.2	37.8	19.4	54.6	33.9
Reaching expected	n	189	49	217	50	5	510
	%	65.9	77.8	62.2	80.7	45.5	66.1
Total	n	287	63	349	62	11	772
	%	100	100	100	100	100	100



EYFSP Bivariate tables – overall development and IDACI Quintile

Number and percentage of reception-age children from the LEAP area by overall development outcome and IDACI Quintile

		IDACI Quintile					
EYFSP Overall		Most deprived	Deprived	Midpoint		Least deprived	Total
Not reaching expected	n	194	52	11	5	0	262
	%	34.1	35.4	44.0	16.1	0.0	33.9
Reaching expected	n	375	95	14	26	0	510
	%	65.9	64.6	56.0	83.9	0.0	66.1
Total	n	569	147	25	31	0	772
	%	100	100	100	100	0.0	100



EYFSP Bivariate tables – overall development and sex

Number and percentage of reception-age children from the LEAP area by overall development outcome and sex

		Se	ex	
EYFSP Overall		Male	Female	Total
Not reaching expected	n	148	114	262
	%	40.9	27.8	33.9
Reaching expected	n	214	296	510
	%	59.1	72.2	66.1
Total	n	362	410	772
	%	100	100	100



EYFSP Bivariate tables – overall development and free school meals

Number and percentage of reception-age children from the LEAP area by overall development outcome and eligibility for free school meals

		Eligibility for Fr	ee School Meals	
EYFSP Overall		No	Yes	Total
Not reaching expected	n	155	107	262
	%	30.2	41.5	33.9
Reaching expected	n	359	151	510
	%	69.8	58.5	66.1
Total	n	514	258	772
	%	100	100	100



EYFSP Bivariate tables – overall development and EAL status

Number and percentage of reception-age children from the LEAP area by overall development outcome and EAL status

		Eng	lish as an Additior	nal Language	
EYFSP Overall		No		Yes	Total
Not reaching expected	n		134	128	262
	%		30.4	38.7	33.9
Reaching expected	n		307	203	510
	%		69.6	61.3	66.1
Total	n		441	331	. 772
	%		100	100	100

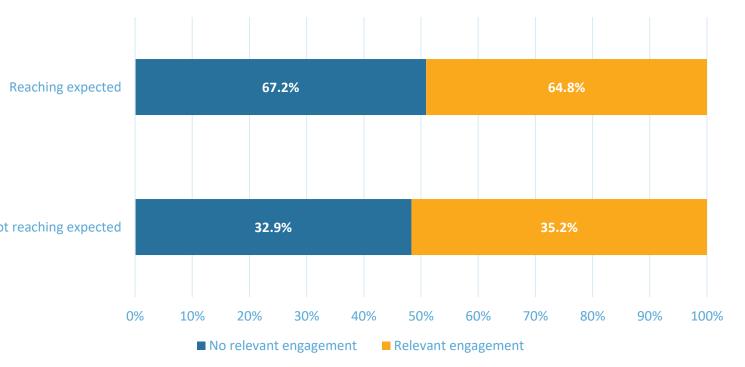


EYFSP Bivariate tables – overall development and engagement with relevant services

Number and percentage of receptionage children from the LEAP area by overall development category and family engagement

		Family Engagement Flag		
EYFSP Ove	rall	No relevant engagement		Total
Not reaching expected	n	136	126	262
	%	32.9	35.2	33.9
Reaching expected	n	278	232	510
	%	67.2	64.8	66.1
Total	n	414	358	772
	%	100	100	100

Percentage of children reaching a Good Level of Development, by LEAP engagement status with relevant services





Multivariate logistic regression: overall development and relevant LEAP engagement

Number of obs	772
LR chi2(12)	50.69
Prob > chi2	0
Pseudo R2	0.0512
Log likelihood	-469.21603

EYFSP overall	Odds ratio	Std. err.	z	P>z	[95% conf.	interval]
fam_eng						
ENG_N	N 1.00)(base)				
ENG_`	Y 0.91	0.14	-0.61	0.542	0.66	1.24
flag_2022	0.93	0.15	-0.43	0.665	0.68	1.27
flag_2023	1.00	(omitted)				
idaci						
Most deprived	d 1.00)(base)				
Deprived	d 0.93	0.19	-0.34	0.732	0.63	1.39
Midpoin	t 0.58	0.25	-1.25	0.211	0.25	1.36
Not deprived	d 2.04	1.04	1.40	0.162	0.75	5.57
fsm						
No	1.00)(base)				
Ye	s 0.58	0.10	-3.20	0.001	0.42	0.81
eal						
No	1.00	(base)				
Ye	s 0.68	0.11	-2.41	0.016	0.49	0.93
ethnicity						
White	e 1.00	(base)				
Asia	n 2.03	0.68	2.11	0.035	1.05	3.91
Blac	k 0.95	0.17	-0.28	0.778	0.67	1.34
Mixed	2.46	0.87	2.54	0.011	1.23	4.93
Othe	r 0.47	0.30	-1.19	0.234	0.13	1.63
gender						
Male	e 1.00	(base)				
Female	e 1.77	0.28	3.62	0	1.30	2.42
_cons	2.11	0.47	3.40	0.001	1.37	3.26

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EYFSP Bivariate tables – communication and language development and ethnicity

Number and percentage of reception-age children from the LEAP area by communication and language development outcome and ethnicity

		Ethnicity					
EYFSP Commu	unication	White	Asian	Black	Mixed	Other	Total
Not reaching expected	n	27	4	. 37	5	2	75
	%	9.4	6.4	10.6	8.1	18.2	9.7
Reaching expected	n	260	59	312	57	9	697
	%	90.6	93.7	89.4	91.9	81.8	90.3
Total	n	287	63	349	62	11	772
	%	100	100	100	100	100	100



EYFSP Bivariate tables – communication and language development and IDACI Quintile

Number and percentage of reception-age children from the LEAP area by communication and language development outcome and IDACI Quintile

		IDACI Quintile						
EYFSP Communication		Most deprived	Deprived	Midpoint		Least Deprived	Total	
Not reaching expected	n	65	7	2	1	0	75	
	%	11.4	4.8	8.0	3.2	0.0	9.7	
Reaching expected	n	504	140	23	30	0	697	
	%	88.6	95.2	92.0	96.8	0.0	90.3	
Total	n	569	147	25	31	0	772	
	%	100	100	100	100	0	100	



EYFSP Bivariate tables – communication and language development and sex

Number and percentage of reception-age children from the LEAP area by communication and language development outcome and sex

		S		
EYFSP Commu	inication	Male	Female	Total
Not reaching expected	n	46	29	75
	%	12.7	7.1	9.7
Reaching expected	n	316	381	697
	%	87.3	92.9	90.3
Total	n	362	410	772
	%	100	100	100



EYFSP Bivariate tables – communication and language development and free school meals

Number and percentage of reception-age children from the LEAP area by communication and language development outcome and eligibility for free school meals

		Eligibility for Fre		
EYFSP Communi	cation	No	Yes	Total
Not reaching expected	n	37	38	75
	%	7.2	14.7	9.7
Reaching expected	n	477	220	697
	%	92.8	85.3	90.3
Total	n	514	258	772
	%	100	100	100



EYFSP Bivariate tables – communication and language development and EAL status

Number and percentage of reception-age children from the LEAP area by communication and language development outcome and EAL status

		English as an Add		
EYFSP Communication		No	Yes	Total
Not reaching expected	n	36	39	75
	%	8.2	11.8	9.7
Reaching expected	n	405	292	697
	%	91.8	88.2	90.3
Total	n	441	331	772
	%	100	100	100



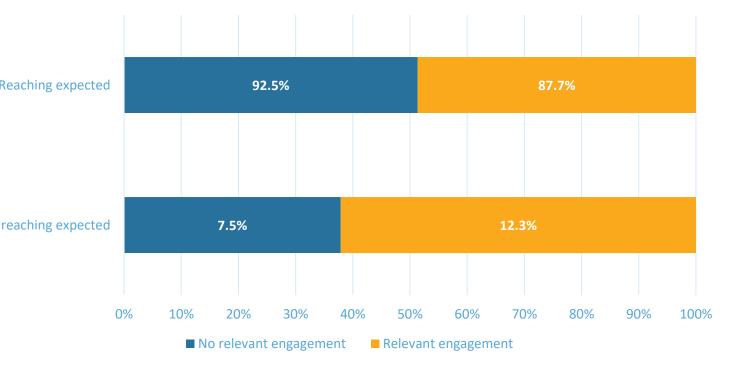
EYFSP Bivariate tables – communication and language development and engagement with relevant services

Number and percentage of receptionage children from the LEAP area by communication and language development outcome and family engagement

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		Family Engage	ement Flag		
EYFSP Communicat	tion	No relevant engagement	Relevant engagement	Total	R
Not reaching expected	n	31	44	75	
	%	7.5	12.3	9.7	
Reaching expected	n	383	314	697	Not r
	%	92.5	87.7	90.3	
Total	n	414	358	772	
	%	100	100	100	

Percentage of children expected CLD, by LEAP engagement status with relevant services





Multivariate logistic regression: communication and language development and relevant LEAP engagement

Number of obs	772
LR chi2(12)	34.29
Prob > chi2	0.0006
Pseudo R2	0.0697
Log likelihood	-228.94878

EYFSP communication	Odds ratio	Std. err.	z	P>z		[95% conf.	interval]
fam_eng							
EN	G_N	1.00(base)					
EN	G_Y	0.61	0.16	-1.93	0.054	0.37	7 1.0
flag_2022		1.15	0.29	0.54	0.59	0.70) 1.8
flag_2023		1.00(omitted)					
idaci							
Most depr	ived	1.00(base)					
Depr	ived	2.45	1.02	2.16	0.031	1.09	5.5
Mid p	oint	1.09	0.84	0.11	0.909	0.24	4.9
Not depr	ived	2.35	2.45	0.82	0.414	0.30) 18.3
fsm							
	No	1.00(base)					
	Yes	0.44	0.11	-3.16	0.002	0.27	0.7
eal							
	No	1.00(base)					
	Yes	0.68	0.17	-1.52	0.129	0.41	1.:
ethnicity							
W	hite	1.00(base)					
A	sian	1.87	1.06	1.10	0.27	0.62	2 5.6
В	lack	1.05	0.29	0.17	0.866	0.61	1.8
Μ	ixed	1.44	0.75	0.70	0.485	0.52	2 4.0
0	ther	0.47	0.39	-0.91	0.362	0.09	2.3
gender							
Ν	/lale	1.00(base)					
Fer	nale	1.95	0.50	2.61	0.009	1.18	3
_cons		10.91	3.90	6.69	0	5.42	2 21.9

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EYFSP Bivariate tables – personal, social, and emotional development and ethnicity

Number and percentage of reception-age children from the LEAP area by personal, social, and emotional development outcome and ethnicity

			Ethnicity					
EYFSP Personal	Social	White	Asian	Black	Mixed	Other	Total	
Not reaching expected	n	71	9	86	10	2	178	
	%	24.7	14.3	24.6	16.1	18.2	23.1	
Reaching expected	n	216	54	263	52	9	594	
	%	75.3	85.7	75.4	83.9	81.8	76.9	
Total	n	287	63	349	62	11	772	
	%	100	100	100	100	100	100	



EYFSP Bivariate tables – personal, social, and emotional development and IDACI Quintile

Number and percentage of reception-age children from the LEAP area by personal, social, and emotional development outcome and IDACI Quintile

			IDACI Quintile				
EVESP Personal Social		Most deprived	Deprived	Midnoint	Not deprived	Least deprived	Total
Not reaching expected	n	133	35	7	3	0	178
	%	23.4	23.8	28.0	9.7	0.0	23.1
Reaching expected	n	436	112	18	28	0	594
	%	76.6	76.2	72.0	90.3	0.0	76.9
Total	n	569	147	25	31	0	772
	%	100	100	100	100	0	100

EYFSP Bivariate tables – personal, social, and emotional development and sex

Number and percentage of reception-age children from the LEAP area by personal, social, and emotional development outcome and sex

		S		
EYFSP Personal Soc	ial	Male	Female	Total
Not reaching expected	n	104	74	178
	%	28.7	18.1	23.1
Reaching expected	n	258	336	594
	%	71.3	82.0	76.9
Total	n	362	410	772
	%	100	100	100



EYFSP Bivariate tables – personal, social, and emotional development and free school meals

Number and percentage of reception-age children from the LEAP area by personal, social, and emotional development outcome and eligibility for free school meals

		Eligibility for Fre		
EYFSP Personal Social		No	Yes	Total
Not reaching expected	n	98	80	178
	%	19.1	31.0	23.1
Reaching expected	n	416	178	594
	%	80.9	69.0	76.9
Total	n	514	258	772
	%	100	100	100



EYFSP Bivariate tables – personal, social, and emotional development and EAL status

Number and percentage of reception-age children from the LEAP area by personal, social, and emotional development outcome and EAL status

		•	n Additional juage	
EYFSP Personal Social		No	Yes	Total
Not reaching expected	n	85	93	178
	%	19.3	28.1	23.1
Reaching expected	n	356	238	594
	%	80.7	71.9	76.9
Total	n	441	. 331	772
	%	100	100	100

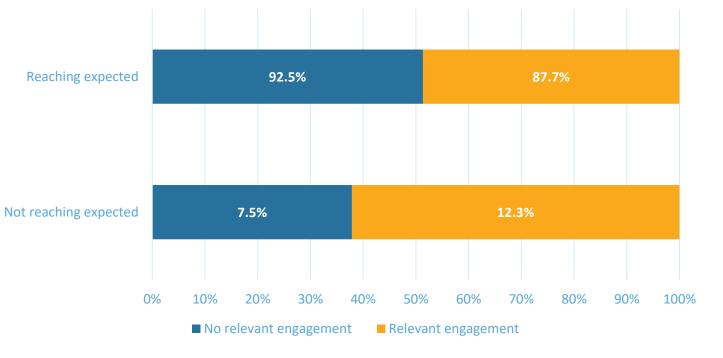


EYFSP Bivariate tables – personal, social, and emotional development and engagement with relevant services

Number and percentage of reception-age children from the LEAP area by personal, social, and emotional development outcome and family engagement

		Family Enga		
EYFSP Personal	Social	No relevant engagement		Total
Not reaching expected	n	84	. 94	178
	%	20.3	26.3	23.1
Reaching expected	n	330	264	594
	%	79.7	73.7	76.9
Total	n	414	358	772
	%	100	100	100

Percentage of children expected PSED, by LEAP engagement status with relevant services



Multivariate logistic regression: person al, social, and emotional development and relevant LEAP engagement

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48.
0.05
-392.409

	EYFSP personal social	Odds	atio Std. err.	z	P>z	[95% (conf. ii	nterval]
	fam_eng							
		ENG_N	1.00(base)					
		ENG_Y	0.70	0.13	-1.96	0.05	0.49	1.00
on	flag_2022		1.10	0.20	0.52	0.6	0.77	1.56
	flag_2023		1.00(omitted)				
	idaci							
	Most	deprived	1.00(base)					
	l l l l l l l l l l l l l l l l l l l	Deprived	0.90	0.20	-0.45	0.65	0.58	1.41
	Ν	1id point	0.62	0.30	-1.00	0.316	0.24	1.59
nd	Not	deprived	2.05	1.29	1.14	0.256	0.59	7.07
	fsm							
		No	1.00(base)					
		Yes	0.49	0.09	-3.81	0	0.34	0.71
	eal							
		No	1.00(base)					
		Yes	0.57	0.10	-3.08	0.002	0.40	0.82
772	ethnicity							
		White	1.00(base)					
48.89		Asian	2.28	0.90	2.08	0.037	1.05	4.94
		Black	1.17	0.23	0.78	0.435	0.79	1.72
0		Mixed	2.02	0.78	1.82	0.068	0.95	4.28
0.0586		Other	1.81	1.47	0.73	0.467	0.37	8.93
0.0580	gender							
		Male	1.00(base)					
92.40971		Female	1.79	0.32	3.25	0.001	1.26	2.54
	_cons		4.03	1.01	5.55	0	2.46	6.58

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Supplement – Multivariate Logistic Regression: overall development and engagement with CLD services

Number of obs	772
LR chi2(12)	50.44
Prob > chi2	0
Pseudo R2	0.051
Log likelihood	-469.338

EYFSP overall	Oc	dds ratio Std. er	rr. z	P>z	[95% cc	onf. interv	al]
fam_cld_eng							
	ENG_N	1.00(base)					
	ENG_Y	1.07	0.20	0.36	0.721	0.74	1.54
flag_2022		0.94	0.15	-0.37	0.711	0.69	1.29
flag_2023		1.00(omitt	:ed)				
idaci							
	Most deprived	1.00(base)					
	Deprived	0.94	0.19	-0.28	0.779	0.64	1.4
	Midpoint	0.60	0.26	-1.19	0.235	0.26	1.4
	Not deprived	2.07	1.06	1.42	0.154	0.76	5.6
fsm							
	No	1.00(base)					
	Yes	0.58	0.10	-3.20	0.001	0.42	0.8
eal							
	No	1.00(base)					
	Yes	0.68	0.11	-2.38	0.018	0.50	0.9
ethnicity							
	White	1.00(base)					
	Asian	2.03	0.68	2.10	0.035	1.05	3.9
	Black	0.94	0.17	-0.35	0.73	0.67	1.3
	Mixed	2.44	0.86	2.52	0.012	1.22	4.8
	Other	0.46	0.29	-1.21	0.226	0.13	1.6
gender							
	Male	1.00(base)	1				
	Female	1.79	0.28	3.66	0	1.31	2.4
cons		1.97	0.42	3.21	0.001	1.30	2.9

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Supplement – **Multivariate Logistic Regression: communica** tion development and engagement with **CLD** services

Number of obs	772
LR chi2(12)	30.87
Prob > chi2	0.0021
Pseudo R2	0.0627
Log likelihood	-230.661

EYFSP communication	Odds ratio	Std. err.	z		P>z	[95% conf.	interval]
fam_cld_eng							
ENG_N	N 1.0	0(base)					
ENG_`	Y 0.8	4	0.24	-0.59	0.552	0.48	1.47
flag_2022	1.1	7	0.29	0.64	0.522	0.72	1.92
flag_2023	1.0	0(omitted)					
idaci							
Most deprived	d 1.0	0(base)					
Deprived	d 2.5	3	1.05	2.23	0.026	1.12	5.71
Midpoin	t 1.2	0	0.92	0.24	0.81	0.27	5.42
Not deprived	d 2.4	8	2.58	0.87	0.384	0.32	19.12
fsm							
No	o 1.0	0(base)					
Ye	s 0.4	4	0.11	-3.19	0.001	0.27	0.73
eal							
No	o 1.0	0(base)					
Ye	s 0.6	9	0.18	-1.43	0.152	0.42	1.14
ethnicity							
White	e 1.0	0(base)					
Asiar	n 1.8	3	1.03	1.07	0.286	0.60	5.52
Blac	k 1.0	2	0.28	0.06	0.953	0.59	1.76
Mixed	d 1.4	1	0.73	0.65	0.514	0.51	3.90
Othe	r 0.4	7	0.39	-0.92	0.356	0.09	2.36
gender							
Male	e 1.0	0(base)					
Female	e 1.9	7	0.50	2.65	0.008	1.19	3.24
_cons	8.6	8	2.85	6.57	0	4.55	16.53



Supplement -**Multivariate Logistic Regression: personal**, social, and emotional development and engagement with **CLD** services

Number of obs	772
LR chi2(12)	45.47
Prob > chi2	0
Pseudo R2	0.0545
Log likelihood	-394.115

EYFSP personal social		Odds ratio	Std. err.	Z		P>z	[95% conf.	interval]
fam_cld_eng								
	ENG_N	1.0	0(base)					
	ENG_Y	1.1	5	0.25	0.65	0.515	0.76	1.7
flag_2022		1.1	3	0.20	0.69	0.488	0.80	1.6
flag_2023		1.0	0(omitted)					
idaci								
Mo	st deprived	1.0	0(base)					
	Deprived	0.9	4	0.21	-0.27	0.786	0.60	1.4
	Midpoint	0.6	8	0.32	-0.81	0.418	0.27	1.7
No	ot deprived	2.1	6	1.37	1.22	0.223	0.63	7.4
fsm								
	No	1.0	0(base)					
	Yes	0.5	0	0.09	-3.78	0	0.35	0.7
eal								
	No	1.0	0(base)					
	Yes	0.5	9	0.11	-2.97	0.003	0.41	0.8
ethnicity								
	White	1.0	0(base)					
	Asian	2.2	5	0.89	2.06	0.039	1.04	4.8
	Black	1.1	2	0.22	0.60	0.551	0.77	1.6
	Mixed	1.9	4	0.74	1.72	0.085	0.91	4.1
	Other	1.7	3	1.40	0.67	0.502	0.35	8.4
gender								
	Male	1.0	0(base)					
	Female	1.8	1	0.32	3.35	0.001	1.28	2.5
_cons		3.1	9	0.75	4.93	0	2.01	5.0



Supplement – **Multivariate Logistic Regression: overall** development and engagement with **SED** services

Number of obs	772
LR chi2(12)	59.94
Prob > chi2	0
Pseudo R2	0.0606
Log likelihood	-464.59

EYFSP overall		Odds ratio	Std. err.	z	P>z	[95% conf.	interval]
fam_sed_eng							
	ENG_N	1.00	(base)				
	ENG_Y	0.58	0.1	10 -3.11	L 0.002	0.41	0.8
flag_2022		0.91	0.1	-0.59	0.556	0.67	1.2
flag_2023		1.00	(omitted)				
idaci							
	Most deprived	1.00	(base)				
	Deprived	0.88	0.1	-0.60	0.547	0.59	1.3
	Midpoint	0.54	0.2	-1.42	L 0.16	0.23	1.2
	Not deprived	2.03	1.0	1.38	3 0.169	0.74	5.5
fsm							
	No	1.00	(base)				
	Yes	0.61	0.:	-2.89	0.004	0.44	0.8
eal							
	No	1.00	(base)				
	Yes	0.67	0.:	-2.45	5 0.014	0.49	0.9
ethnicity							
	White	1.00	(base)				
	Asian	2.09	0.1	70 2.18	3 0.029	1.08	4.(
	Black	1.02	0.:	18 0.09	0.925	0.72	1.4
	Mixed	2.55	0.9	2.63	0.009	1.27	5.1
	Other	0.51	0.3	-1.06	0.289	0.14	1.7
gender							
	Male	1.00	(base)				
	Female	1.76	0.2	28 3.54	1 O	1.29	2.4
cons		2.35	0.!	50 4.02	L O	1.55	3.5

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Supplement – **Multivariate Logistic Regression: communica** tion development and engagement with **SED** services

Number of obs	772
LR chi2(12)	42.27
Prob > chi2	0
Pseudo R2	0.0859
Log likelihood	-224.962

EYFSP communication	Odds ratio	Std. err.	Z	P>z	[95% conf.	interval]
fam_sed_eng						
ENG_1	N 1.0	D(base)				
ENG_	Y 0.4	1 0.11	L -3.45	0.001	0.25	0.6
flag_2022	1.1	1 0.28	3 0.42	0.671	0.68	1.8
flag_2023	1.0	D(omitted)				
idaci						
Most deprive	d 1.0)(base)				
Deprive	d 2.2	3 0.95	5 1.98	0.048	1.01	5.3
Midpoin	it 1.0	5 0.83	L 0.06	0.953	0.23	4.
Not deprive	d 2.3	5 2.47	0.82	0.412	0.30	18.
fsm						
N	o 1.0	D(base)				
Ye	s 0.4	3 0.12	-2.86	0.004	0.29	0.1
eal						
N	o 1.0)(base)				
Ye	s 0.6	3 0.17	-1.52	0.129	0.41	1.:
ethnicity						
Whit	e 1.0	D(base)				
Asia	n 1.9	1.08	3 1.13	0.258	0.62	5.8
Blac	k 1.1	5 0.33	3 0.48	0.63	0.66	2.0
Mixe	d 1.4	3 0.78	3 0.75	0.454	0.53	4.:
Othe	er 0.5-	1 0.46	-0.73	0.467	0.10	2.8
gender						
Mal	e 1.0	D(base)				
Femal	e 1.9	5 0.5 :	L 2.61	0.009	1.18	3.
cons	11.3	1 3.92	2 7.00	0	5.73	22.3



Supplement – Multivariate Logistic Regression: personal, social, and emotional development and engagement with SED services

Number of obs	772
LR chi2(12)	60.28
Prob > chi2	0
Pseudo R2	0.0723
Log likelihood	-386.71

EYFSP personal social	Odds ratio	Std. err.	Z	P>z	[95% conf.	interval]
am_sed_eng						
ENG_N	1.00	(base)				
ENG_Y	0.47	0.09	-3.93	0	0.33	0.69
lag_2022	1.08	0.19	0.40	0.686	0.76	1.53
lag_2023	1.00	(omitted)				
daci						
Most deprived	1.00	(base)				
Deprived	0.85	0.19	-0.71	0.479	0.54	1.33
Midpoint	0.59	0.28	-1.10	0.27	0.23	1.52
Not deprived	2.05	1.30	1.13	0.257	0.59	7.13
sm						
No	1.00	(base)				
Yes	0.52	0.10	-3.47	0.001	0.36	0.75
eal						
No	1.00	(base)				
Yes	0.57	0.10	-3.09	0.002	0.40	0.81
ethnicity						
White	1.00	(base)				
Asian	2.35	0.94	2.15	0.032	1.08	5.13
Black	1.26	0.25	1.14	0.256	0.85	1.86
Mixed	2.06	0.80	1.87	0.061	0.97	4.40
Other	2.02	1.65	0.86	0.392	0.41	10.02
gender						
Male	1.00	(base)				
Female		0.32	3.21	0.001	1.25	2.54
cons	4.22	1.03	5.92	0	2.62	



Supplement – Multivariate Logistic Regression: overall development and engagement with targeted services

Number of obs	772
LR chi2(12)	56.49
Prob > chi2	0
Pseudo R2	0.0571
Log likelihood	-466.315

EYFSP overall		Odds ratio	Std. err.	Z		P>z	[95% conf.	interval]
fam_eng_targeted								
	ENG_N	1.	00(base)					
	ENG_Y	0.	66	0.11	-2.49	0.013	0.48	0.9
flag_2022		0.	92	0.15	-0.50	0.618	0.68	1.3
flag_2023		1.	00(omitted)					
idaci								
	Most deprived	1.	00(base)					
	Deprived	0.	90	0.18	-0.51	0.607	0.61	1.
	Midpoint	0.	58	0.25	-1.26	0.206	0.25	1.
	Not deprived	2.	00	1.02	1.35	0.176	0.73	5.
fsm								
	No	1.	00(base)					
	Yes	0.	60	0.10	-3.02	0.002	0.43	0.
eal								
	No	1.	00(base)					
	Yes	0.	67	0.11	-2.44	0.015	0.49	0.
ethnicity								
	White	1.	00(base)					
	Asian	2.	04	0.69	2.12	0.034	1.06	3.
	Black	1.	00	0.18	0.03	0.979	0.71	1.4
	Mixed	2.	48	0.88	2.57	0.01	1.24	4.
	Other	0.	48	0.31	-1.13	0.256	0.14	1.
gender								
	Male	1.	00(base)					
	Female	1.	75	0.28	3.54	0	1.29	2.
cons		2.	32	0.50	3.93	0	1.53	3.

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Supplement – Multivariate Logistic Regression: communication development and engagement with targeted services

Number of obs	772
LR chi2(12)	37.59
Prob > chi2	0.0002
Pseudo R2	0.0764
Log likelihood	-227.298

EYFSP communication	Odds ratio	Std. err.	z	P>z	[95% conf.	interval]
fam_eng_targeted						
ENG_N	1.00	(base)				
ENG_Y	0.51	0.13	-2.66	0.008	0.31	0.84
flag_2022	1.16	0.29	0.58	0.563	0.71	1.90
flag_2023	1.00	(omitted)				
idaci						
Most deprived	1.00	(base)				
Deprived	2.36	0.98	2.06	0.039	1.04	5.34
Midpoint	1.16	0.90	0.20	0.843	0.26	5.28
Not deprived	2.32	2.43	0.81	0.42	0.30	18.02
fsm						
No	1.00	(base)				
Yes	0.46	0.12	-2.99	0.003	0.28	0.77
eal						
No	1.00	(base)				
Yes	0.68	0.17	-1.50	0.134	0.41	1.13
ethnicity						
White	1.00	(base)				
Asian	1.87	1.06	1.10	0.27	0.62	5.68
Black	1.12	0.32	0.41	0.678	0.65	1.96
Mixed	1.43	0.75	0.68	0.497	0.51	3.97
Other	0.50	0.42	-0.83	0.404	0.10	2.57
gender						
Male	1.00	(base)				
Female	1.95	0.50	2.61	0.009	1.18	3.23
_cons	10.77	3.72	6.88	0	5.47	21.20

Supplement – Multivariate Logistic Regression: personal, social, and emotional development and engagement with targeted services

Number of obs	772
LR chi2(12)	57.86
Prob > chi2	0
Pseudo R2	0.0694
Log likelihood	-387.924

EYFSP personal social	Odds ratio	Std. err.	z	P>z	[95% conf.	interval]
fam_eng_targeted						
ENG_N	1.0	D(base)				
ENG_Y	0.5	2 0.10	-3.59	0	0.36	0.74
flag_2022	1.1	0.20	0.53	0.598	0.77	1.56
flag_2023	1.0	0(omitted)				
idaci						
Most deprived	1.0	D(base)				
Deprived	0.8	7 0.20	-0.63	0.53	0.55	1.36
Midpoint	0.6	4 0.31	-0.94	0.349	0.25	1.64
Not deprived	2.0	1 1.27	1.10	0.273	0.58	6.95
fsm						
Nc	1.0	D(base)				
Yes	0.5	1 0.10	-3.61	0	0.35	0.74
eal						
Nc	1.0	D(base)				
Yes	0.5	7 0.10	-3.09	0.002	0.40	0.81
ethnicity						
White	. 1.0	D(base)				
Asiar	2.3	0.91	2.09	0.037	1.05	5.00
Black	. 1.2	5 0.25	1.13	0.259	0.85	1.86
Mixed	2.0	0.77	1.80	0.072	0.94	4.25
Other	1.8	9 1.54	0.78	0.436	0.38	9.36
gender						
Male	. 1.0	D(base)				
Female	1.7	8 0.32	3.19	0.001	1.25	2.53
_cons	4.2	7 1.05	5.92	0	2.64	6.91
	Q>					

Supplement – Multivariate Logistic Regression: overall development and engagement with universal services

Number of obs	772
LR chi2(12)	54.79
Prob > chi2	0
Pseudo R2	0.0554
Log likelihood	-467.165

EYFSP overall		Odds ratio	Std. err.	z		P>z	[95% conf.	interval]
fam_eng_universal								
	ENG_N	1.00)(base)					
	ENG_Y	1.43	3 0	.25	2.10	0.036	1.02	2.01
flag_2022		0.96	5 0	.15	-0.26	0.797	0.70	1.31
flag_2023		1.00	(omitted)					
idaci								
	Most deprived	1.00)(base)					
	Deprived	0.94	ч О	.19	-0.28	0.776	0.64	1.40
	Midpoint	0.63	0	.26	-1.17	0.244	0.26	1.41
	Not deprived	2.18	3 1	.12	1.52	0.129	0.80	5.97
fsm								
	No	1.00)(base)					
	Yes	0.59	0	.10	-3.12	0.002	0.42	0.82
eal								
	No	1.00)(base)					
	Yes			.11	-2.27	0.023	0.50	0.95
ethnicity								
,	White	1.00)(base)					
	Asian			.68	2.08	0.037	1.04	3.91
	Black	0.95	5 0	.17	-0.31	0.758	0.67	1.34
	Mixed	2.32	2 0	.82	2.37	0.018	1.15	4.65
	Other	0.45	5 0	.29	-1.24	0.215	0.13	1.58
gender								
	Male	1.00)(base)					
	Female			.29	3.71	0	1.32	2.46
cons		1.74		.37	2.56			

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Supplement – Multivariate Logistic Regression: communication development and engagement with universal services

Number of obs	772
LR chi2(12)	30.58
Prob > chi2	0.0023
Pseudo R2	0.0621
Log likelihood	-230.804

EYFSP communication	Odds ratio	Std. err.	Z	P>z	[95% conf.	interval]
fam_eng_universal						
ENG_N	1.00	(base)				
ENG_Y	1.07	0.29	0.25	0.804	0.63	1.8
flag_2022	1.18	0.30	0.68	0.499	0.72	1.9
flag_2023	1.00	(omitted)				
idaci						
Most deprived	1.00	(base)				
Deprived	2.56	1.06	2.26	0.024	1.13	5.7
Midpoint	1.23	0.95	0.27	0.786	0.27	5.5
Not deprived	2.52	2.63	0.89	0.376	0.33	19.4
fsm						
Nc	1.00	(base)				
Yes	0.45	0.11	-3.15	0.002	0.27	0.7
eal						
Nc	1.00	(base)				
Yes	0.70	0.18	-1.40	0.161	0.43	1.3
ethnicity						
White	1.00	(base)				
Asiar	1.83	1.04	1.07	0.283	0.61	5.5
Black	1.01	0.28	0.04	0.967	0.59	1.7
Mixed	1.38	0.72	0.62	0.536	0.50	3.8
Other	0.46	0.38	-0.95	0.344	0.09	2.3
gender						
Male	1.00	(base)				
Female	1.97	0.50	2.65	0.008	1.19	3.2
cons	8.03	2.67	6.25	0	4.18	15.4



Supplement – Multivariate Logistic Regression: personal, social, and emotional development and engagement with universal services

Number of obs	772
LR chi2(12)	47.73
Prob > chi2	0
Pseudo R2	0.0573
Log likelihood	-392.987

EYFSP personal social	Odds ratio	Std. err.	Z		P>z	[95% conf.	interval]
fam_eng_universal							
ENG_	N 1.0	0(base)					
ENG_	Y 1.3	7	0.27	1.62	0.105	0.94	2.0
flag_2022	1.1	4	0.20	0.75	0.451	0.81	1.6
flag_2023	1.0	0(omitted)					
daci							
Most deprive	d 1.0	0(base)					
Deprive	d 0.9	4	0.21	-0.29	0.77	0.60	1.4
Midpoir	nt 0.6	8	0.32	-0.81	0.419	0.27	1.7
Not deprive	d 2.2	5	1.43	1.28	0.2	0.65	7.8
fsm							
N	o 1.0	0(base)					
Ye	es 0.5	0	0.09	-3.71	0	0.35	0.7
eal							
Ν	o 1.0	0(base)					
Ye	es 0.5	9	0.11	-2.89	0.004	0.42	0.8
ethnicity							
Whit	e 1.0	0(base)					
Asia	n 2.2	4	0.89	2.04	0.041	1.03	4.8
Blac	.k 1.1	3	0.22	0.63	0.527	0.77	1.6
Mixe	d 1.8	5	0.71	1.60	0.109	0.87	3.9
Othe	er 1.7	1	1.39	0.66	0.511	0.35	8.4
gender							
Mal	e 1.0	0(base)					
Femal	e 1.8	2	0.32	3.36	0.001	1.28	2.5
_cons	2.9	3	0.70	4.49	0	1.83	4.6

Supplement: Table of total number of Early Learning Goals achieved against engagement with relevant LEAP services

Total Early Learning Goals Achieved	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total
No engagement with relevant services	3.1	2.7	1.2	0.5	1.0	1.0	1.7	1.9	1.5	1.9	2.4	2.2	2.4	3.6	2.9	2.9	3.4	63.8	100.0
Engagement with relevant services	8.4	0.8	1.7	1.7	1.7	1.7	1.1	2.0	2.5	1.7	2.5	0.8	2.8	2.0	2.0	2.0	0.8	64.0	100.0
Total	5.6	1.8	1.4	1.0	1.3	1.3	1.4	1.9	1.9	1.8	2.5	1.6	2.6	2.9	2.5	2.5	2.2	63.9	100.0



Supplement: Table of total number of Early Learning Goals achieved against engagement with LEAP CLD services

Total Early Learning Goals Achieved	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total
No engagement with CLD services	5.1	2.2	1.2	1.2	1.4	1.5	1.7	1.9	1.9	1.7	2.7	1.7	2.4	2.5	2.9	2.5	2.4	63.3	100.0
Engagement with CLD services	7.2	0.6	2.2	0.6	1.1	0.6	0.6	2.2	2.2	2.2	1.7	1.1	3.3	3.9	1.1	2.2	1.7	65.6	100.0
Total	5.6	1.8	1.4	1.0	1.3	1.3	1.4	1.9	1.9	1.8	2.5	1.6	2.6	2.9	2.5	2.5	2.2	63.9	100.0



Supplement: Table of total number of Early Learning Goals achieved against engagement with LEAP SED services

Total Early Learning Goals Achieved	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total
No engagement with SED services	3.3	2.0	1.1	0.7	0.9	0.9	1.3	1.8	1.7	1.8	2.0	1.8	2.8	2.9	2.4	2.4	2.9	67.2	100.0
Engagement with SED services	11.1	1.3	2.2	1.8	2.2	2.2	1.8	2.2	2.7	1.8	3.5	0.9	2.2	2.7	2.7	2.7	0.4	55.8	100.0
Total	5.6	1.8	1.4	1.0	1.3	1.3	1.4	1.9	1.9	1.8	2.5	1.6	2.6	2.9	2.5	2.5	2.2	63.9	100.0



Supplement: Table of total number of Early Learning Goals achieved against engagement with LEAP targeted services

Total Early Learning Goals Achieved	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total
No engagement with targeted services	3.4	2.2	1.0	0.8	0.8	1.0	1.2	1.6	1.6	1.8	2.0	2.0	2.4	3.0	2.4	2.2	3.0	67.3	100.0
Engagement with targeted services	9.4	1.1	2.2	1.5	2.2	1.8	1.8	2.5	2.5	1.8	3.3	0.7	2.9	2.5	2.5	2.9	0.7	57.6	100.0
Total	5.6	1.8	1.4	1.0	1.3	1.3	1.4	1.9	1.9	1.8	2.5	1.6	2.6	2.9	2.5	2.5	2.2	63.9	100.0

Supplement: Table of total number of Early Learning Goals achieved against engagement with LEAP universal services

Total Early Learning Goals Achieved	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Total
No engagement with universal services	5.3	2.6	1.6	1.2	1.4	1.6	1.2	2.0	2.2	2.0	3.0	1.6	2.6	3.0	3.1	3.0	2.4	60.7	100.0
Engagement with universal services	6.1	0.4	1.1	0.8	1.1	0.8	1.9	1.9	1.5	1.5	1.5	1.5	2.7	2.7	1.1	1.5	1.9	70.0	100.0
Total	5.6	1.8	1.4	1.0	1.3	1.3	1.4	1.9	1.9	1.8	2.5	1.6	2.6	2.9	2.5	2.5	2.2	63.9	100.0

