# National Diabetes Audit, Adolescents and Young Adults with Type 1 Diabetes 2017-24

Updated September 2025



### Summary

The Adolescent and Young Adult Type 1 Diabetes Audit (AYA; previously referred to as the National Diabetes Transition Audit, NDTA) links datasets from the adult and paediatric national diabetes audits. The AYA has been designed to audit care provision during the period when young people with diabetes move from paediatric to adult based clinical care. The audit covers the period 01 January 2017 to 31 March 2024 and the cohort consists of people with type 1 diabetes aged between 16 and 25 years old during the AYA period.

## National Overview – Demographics

Number of people by audit year and age

					A	ge at audit stai	-t				
Audit year	16	17	18	19	20	21	22	23	24	25	All
2017-18	3,115	3,315	3,455	3,620	3,640	3,680	3,880	3,810	3,975	4,105	36,595
2018-19	2,965	3,260	3,450	3,565	3,735	3,815	3,830	4,035	3,920	4,125	36,700
2019-20	2,975	3,125	3,405	3,570	3,750	3,900	3,985	3,985	4,205	4,070	36,965
2020-21	3,100	3,100	3,270	3,510	3,700	3,900	4,050	4,125	4,155	4,315	37,225
2021-22	3,245	3,295	3,225	3,395	3,650	3,830	4,095	4,250	4,290	4,265	37,535
2022-23	3,215	3,400	3,380	3,285	3,465	3,730	3,970	4,145	4,305	4,330	37,220
2023-24	3,475	3,360	3,520	3,450	3,385	3,560	3,805	4,090	4,265	4,435	37,350

Number of people by audit year and sex

		Se	ex	
			Unknown/Not	
Audit year	Female	Male	specified	All
2017-18	16,530	20,065	-	36,595
2018-19	16,530	20,170	-	36,700
2019-20	16,590	20,375	-	36,965
2020-21	16,680	20,545	-	37,225
2021-22	16,780	20,755	•	37,535
2022-23	16,680	20,540	5	37,220
2023-24	16,670	20,675	5	37,350

## National Overview – Ethnicity

#### Number of people by audit year and ethnicity status

	Ethnicity										
					Any						
	Asian or	Black or			Other	Unknown					
Audit	Asian	Black	Mixed		Ethnic	/Not					
year	British	British	Ethnicity	White	Group	stated	All				
2017-18	1,660	1,095	665	31,240	590	1,345	36,595				
2018-19	1,775	1,130	680	31,200	630	1,285	36,700				
2019-20	1,845	1,210	735	31,170	700	1,310	36,965				
2020-21	1,965	1,345	815	31,150	705	1,250	37,225				
2021-22	2,155	1,465	865	31,100	740	1,215	37,535				
2022-23	2,315	1,530	915	30,620	790	1,055	37,220				
2023-24	2,445	1,630	930	29,785	795	1,765	37,350				

#### Percentage of people by audit year and ethnicity status

	Ethnicity										
					Any						
	Asian or	Black or			Other	Unknow					
Audit	Asian	Black	Mixed		Ethnic	n/Not					
year	British	British	Ethnicity	White	Group	stated	All				
2017-18	4.5	3.0	1.8	85.4	1.6	3.7	100.0				
2018-19	4.8	3.1	1.9	85.0	1.7	3.5	100.0				
2019-20	5.0	3.3	2.0	84.3	1.9	3.5	100.0				
2020-21	5.3	3.6	2.2	83.7	1.9	3.4	100.0				
2021-22	5.7	3.9	2.3	82.9	2.0	3.2	100.0				
2022-23	6.2	4.1	2.5	82.3	2.1	2.8	100.0				
2023-24	6.5	4.4	2.5	79.7	2.1	4.7	100.0				

# National Overview – Deprivation Quintile

Number of people by audit year and deprivation quintile

deprivation quiline										
	Deprivation quintile									
		2nd	3rd	2nd						
Audit	Most	most	most	least	Least	Unknow				
year	deprived	deprived	deprived	deprived	deprived	n	All			
2017-18	8,090	7,745	7,250	6,730	6,670	105	36,595			
2018-19	8,065	7,600	7,295	6,835	6,835	75	36,700			
2019-20	8,190	7,560	7,390	6,920	6,845	55	36,965			
2020-21	8,260	7,580	7,425	6,935	6,980	40	37,225			
2021-22	8,380	7,710	7,300	6,940	7,160	45	37,535			
2022-23	8,285	7,740	7,130	6,860	7,165	40	37,220			
2023-24	8,240	7,805	7,190	6,800	7,155	160	37,350			

#### Percentage of people by audit year and deprivation quintile

	Deprivation quintile									
Audit	Most	2nd most	3rd most	2nd least	Least					
year	deprived	deprived	deprived	deprived	deprived	Unknown	All			
2017-18	22.1	21.2	19.8	18.4	18.2	0.3	100.0			
2018-19	22.0	20.7	19.9	18.6	18.6	0.2	100.0			
2019-20	22.2	20.5	20.0	18.7	18.5	0.1	100.0			
2020-21	22.2	20.4	19.9	18.6	18.8	0.1	100.0			
2021-22	22.3	20.5	19.4	18.5	19.1	0.1	100.0			
2022-23	22.3	20.8	19.2	18.4	19.3	0.1	100.0			
2023-24	22.1	20.9	19.3	18.2	19.2	0.4	100.0			

#### Number of people by audit year and HbA1c status

					HbA1c statu	ıs			
	No	No							
Audit	HbA1c	HbA1c	HbA1c <=	HbA1c <=	HbA1c <=	HbA1c <=	HbA1c <=	HbA1c >	
year	date	value	48mmol/mol	53mmol/mol	58mmol/mol	75mmol/mol	86mmol/mol	86mmol/mol	All
2017-18	7,260	7,335	1,980	3,840	6,550	16,700	21,395	7,865	36,595
2018-19	6,950	7,040	2,275	4,330	7,185	17,470	22,020	7,645	36,700
2019-20	8,505	8,575	2,150	4,215	7,100	16,845	21,145	7,245	36,965
2020-21	13,190	13,285	2,545	4,735	7,500	15,630	18,800	5,140	37,225
2021-22	11,305	11,395	3,010	5,415	8,340	17,065	20,470	5,675	37,535
2022-23	9,530	9,645	3,255	5,965	9,225	18,420	21,840	5,735	37,220
2023-24	8,665	8,775	3,830	6,690	10,165	19,445	22,840	5,735	37,350

#### Percentage of people by audit year and HbA1c status

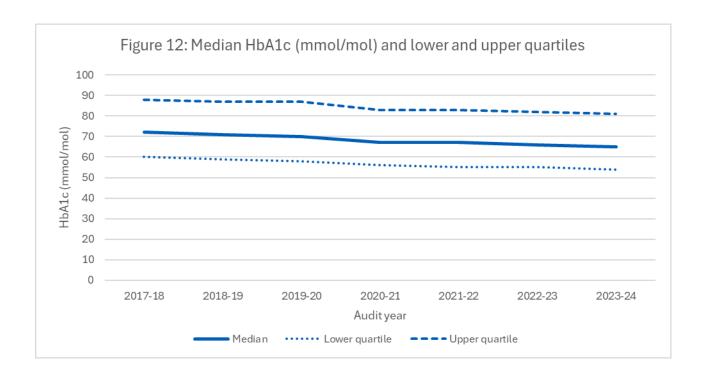
		HbA1c status										
Audit year	No HbA1c date	No HbA1c value	HbA1c <= 48mmol/mol	HbA1c <= 53mmol/mol		HbA1c <= 75mmol/mol		HbA1c > 86mmol/mol				
2017-18	19.8	20.0	5.4	10.5	17.9	45.6	58.5	21.5				
2018-19	18.9	19.2	6.2	11.8	19.6	47.6	60.0	20.8				
2019-20	23.0	23.2	5.8	11.4	19.2	45.6	57.2	19.6				
2020-21	35.4	35.7	6.8	12.7	20.1	42.0	50.5	13.8				
2021-22	30.1	30.4	8.0	14.4	22.2	45.5	54.5	15.1				
2022-23	25.6	25.9	8.7	16.0	24.8	49.5	58.7	15.4				
2023-24	23.2	23.5	10.3	17.9	27.2	52.1	61.2	15.4				

# National HbA1c Outcomes

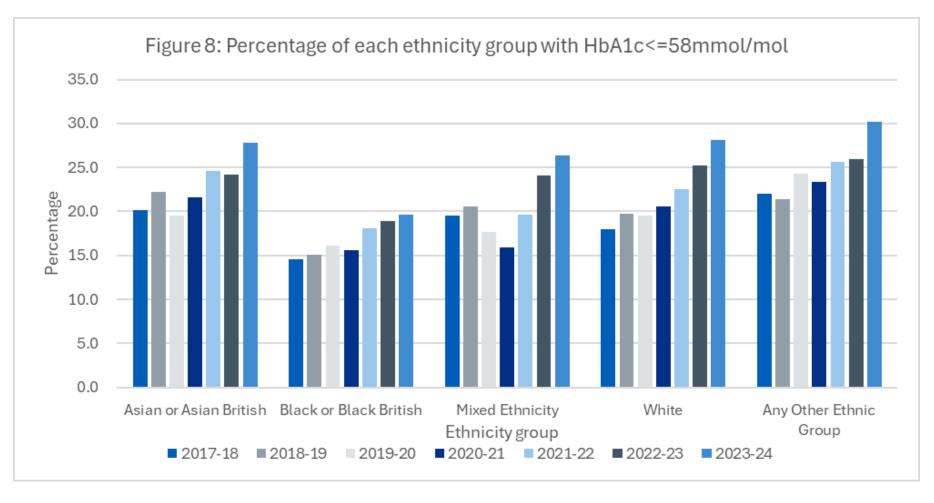
## National - HbA1c Outcomes Median

#### Median HbA1c (mmol/mol), interquartile range and range by audit year

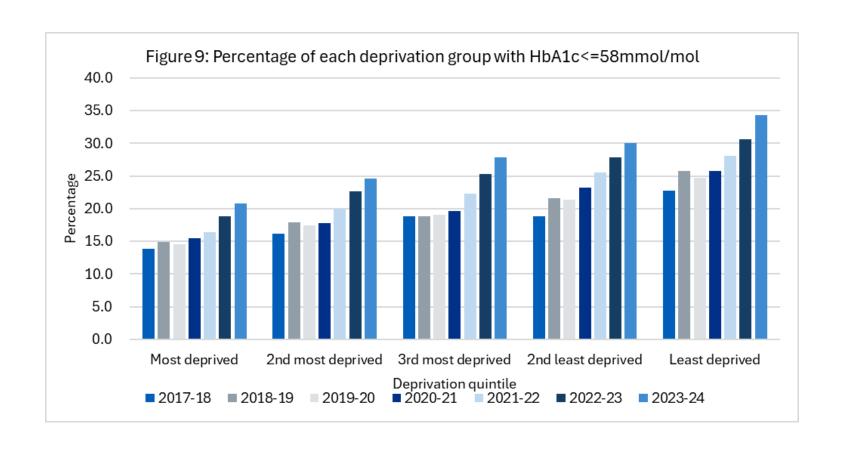
audit year						
				Lower	Upper	
Audit year	People	Median	IQR	quartile	quartile	Range
2017-18	29,260	72	60 - 88	60	88	157.0
2018-19	29,660	71	59 - 87	59	87	170.0
2019-20	28,390	70	58 - 87	58	87	168.8
2020-21	23,940	67	56 - 83	56	83	163.9
2021-22	26,140	67	55 - 83	55	83	169.1
2022-23	27,575	66	55 - 82	55	82	171.0
2023-24	28,575	65	54 - 81	54	81	186.8



# National HbA1c Outcomes <= 58mmol/mol by Ethnicity group



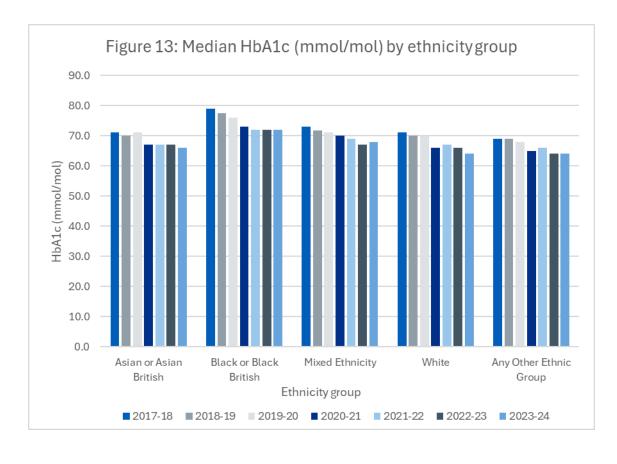
# National HbA1c Outcomes <= 58mmol/mol by Deprivation group



# National - HbA1c Outcomes Median by Ethnicity

Median HbA1c (mmol/mol) by audit year and ethnicity

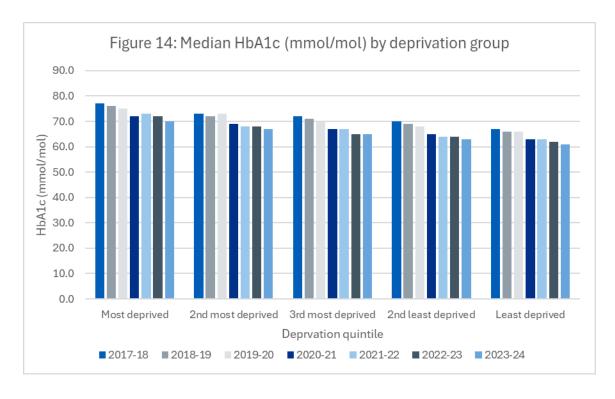
modian morti	• (	.,				
			Ethnicity			
	Asian or Asian	Black or Black	Mixed		Any Other	
Audit year	British	British	Ethnicity	White	Ethnic Group	
2017-18	71.0	79.0	73.0	71.0	69.0	
2018-19	70.0	77.5	71.8	70.0	69.0	
2019-20	71.0	76.0	71.0	70.0	68.0	
2020-21	67.0	73.0	70.0	66.0	65.0	
2021-22	67.0	72.0	69.0	67.0	66.0	
2022-23	67.0	72.0	67.0	66.0	64.0	
2023-24	66.0	72.0	68.0	64.0	64.0	



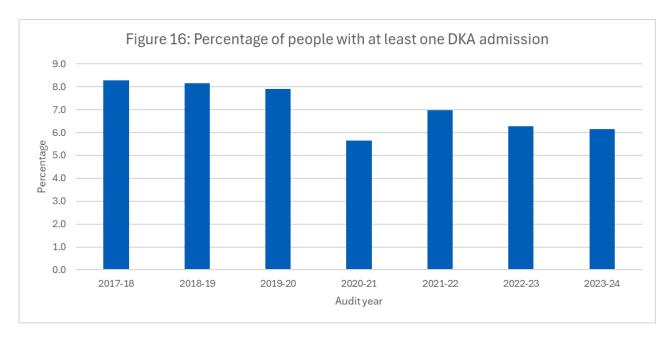
# National - HbA1c Outcomes Median by Deprivation

Median HbA1c (mmol/mol) by audit year and deprivation quintile

		Deprivation quintile									
		2nd most	3rd most	2nd least	Least						
Audit year	Most deprived	deprived	deprived	deprived	deprived						
2017-18	77.0	73.0	72.0	70.0	67.0						
2018-19	76.0	72.0	71.0	69.0	66.0						
2019-20	75.0	73.0	70.0	68.0	66.0						
2020-21	72.0	69.0	67.0	65.0	63.0						
2021-22	73.0	68.0	67.0	64.0	63.0						
2022-23	72.0	68.0	65.0	64.0	62.0						
2023-24	70.0	67.0	65.0	63.0	61.0						



### National - DKA Admissions



#### Percentage of people with at least one DKA admission by audit year and ethnicity

	Ethnicity								
	Asian or Asian Black or Blac	k Mixed		Any Other					
Audit year	British Britis	h Ethnicity	White	Ethnic Group					
2023-24	3.9 7.	4 7.5	6.3	5.0					

#### Percentage of people with at least 1 DKA admission by audit year and sex

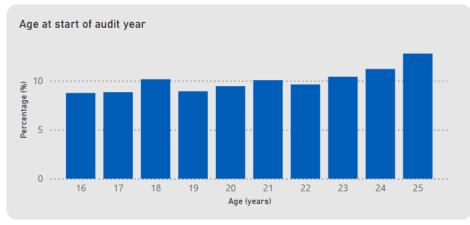
Sex	
Female	Male
7.1	5.4
	Female 7.1

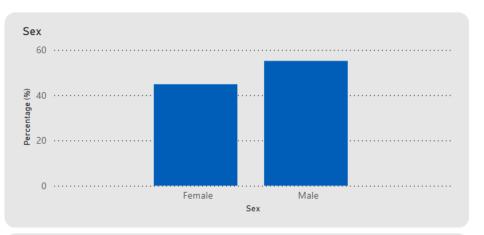
#### Percentage of people with at least one DKA admission by audit year and deprivation quintile

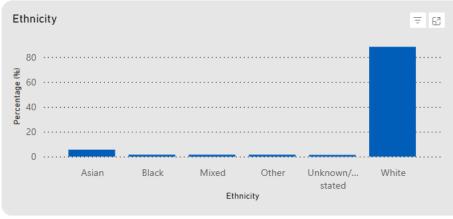
	Deprivation quintile							
	Most	2nd most	3rd most	2nd least	Least			
Audit year	deprived	deprived	deprived	deprived	deprived			
2023-24	9.2	7.2	5.5	4.5	3.9			

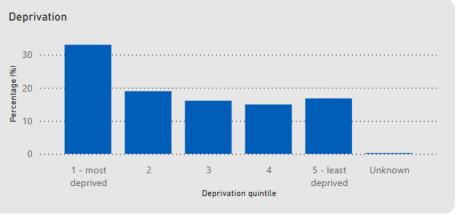
<sup>\*</sup> Excludes DKA admissions in the first year of diagnosis

# Regional NEY Demographics 23/24

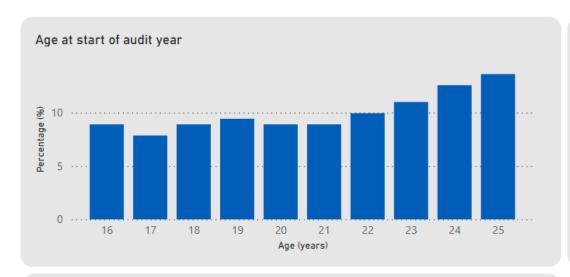


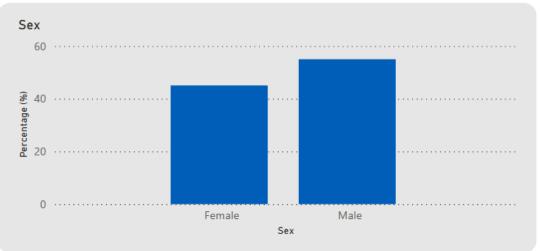


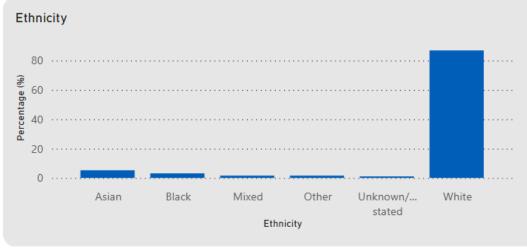


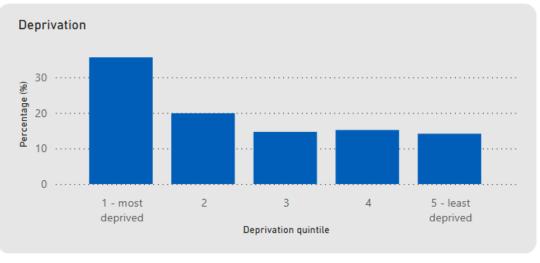


# South Yorkshire Demographics 23/24

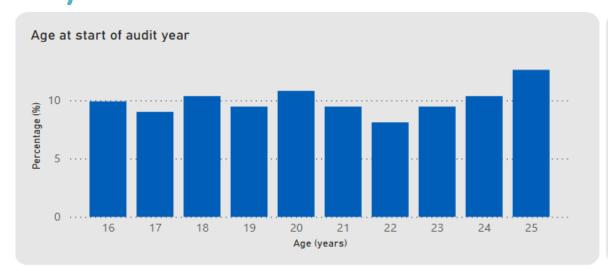


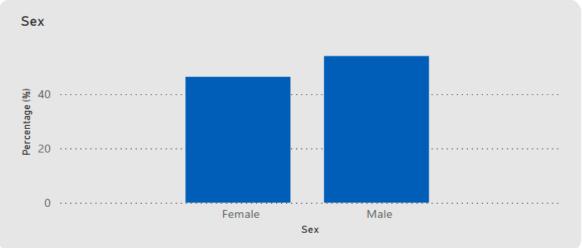


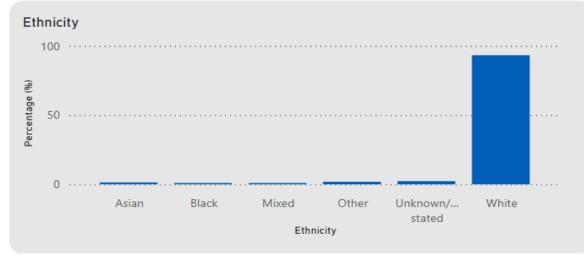


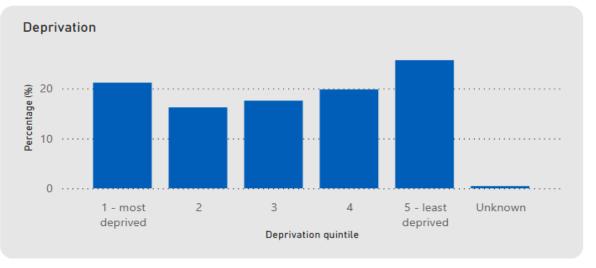


# Humber, North Yorkshire Demographics 23/24

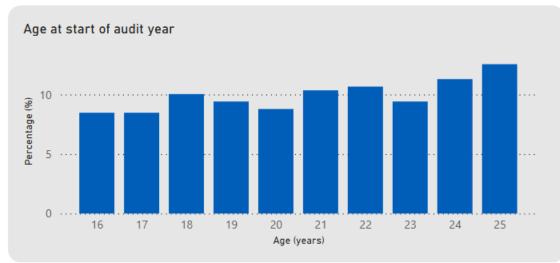


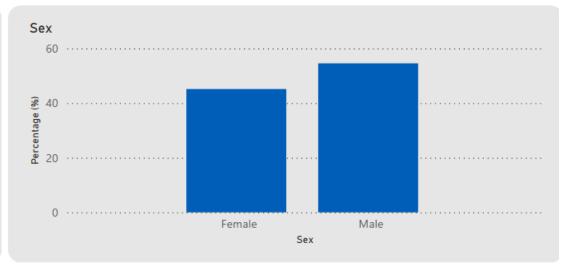


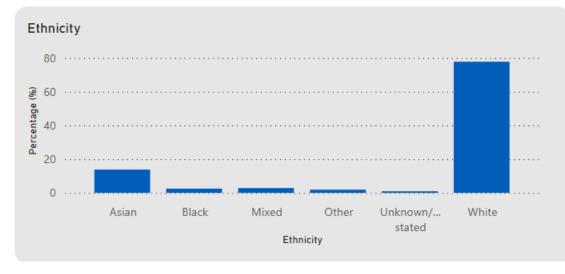


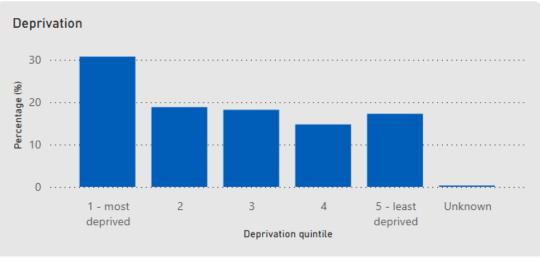


## West Yorkshire Demographics 23/24

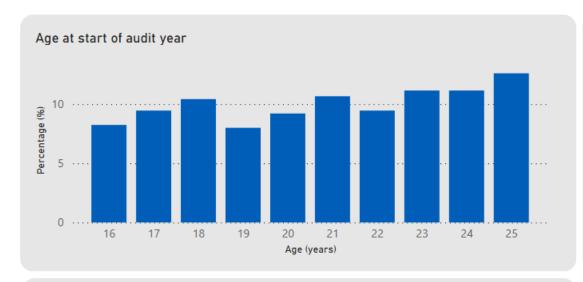


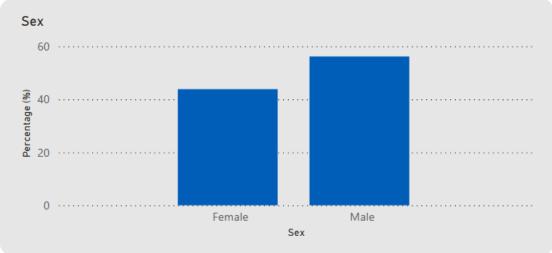


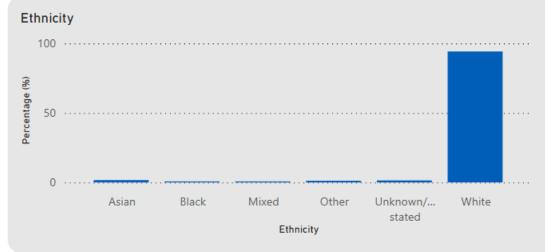


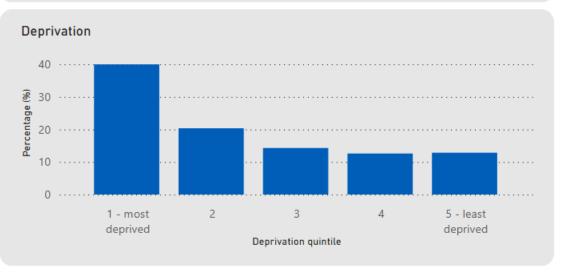


## NENC Demographics 23/24









### Regional data for North East and Yorkshire

ICB/LHB name	People	Attenders	Percentage		HbA1c<=58 mmol/mol percentage	Median HbA1c	IQR - LQ	IQR - UQ	Range	DKA	DKA percentage
All	5,720	4,620	80.8	1,570	27.4	66.0	55.0	83.0	173.8	395	6.9
NHS Humber and North Yorkshire ICB	1,110	880	79.3	300	27.0	66.0	55.0	81.0	141.0	95	8.6
NHS North East and North Cumbria ICB	2,065	1,640	79.4	535	25.9	67.0	55.0	84.0	154.6	155	7.5
NHS South Yorkshire ICB	955	835	87.4	335	35.1	62.0	52.0	77.8	156.8	60	6.3
NHS West Yorkshire ICB	1,595	1,265	79.3	400	25.1	67.0	56.0	84.8	170.5	90	5.6

# ICB Comparisons

Key	
	The ICB percentage is better than expected (by at least two standard deviations) - see
	footnote
	The ICB percentage is worse than expected (by at least two standard deviations) - see
	footnote
	The ICB has one of the 10 highest percentages of people in the most deprived quintile
	(31.8 - 59.5%)
	The ICB has one of the 10 lowest percentages of people in the most deprived quintile
	(0.9-9.1%)

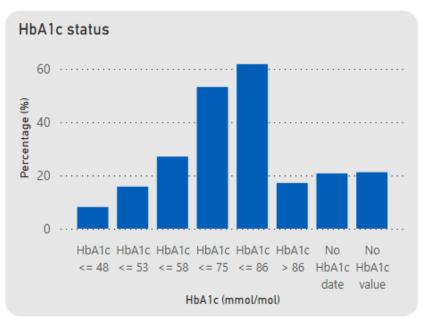
Region	ICB/LHB name	Young people with type 1 diabetes	_	Percentage with HbA1c<=58mm ol/mol	Percentage with at least one DKA admission	Percentage in the most deprived quintile
North East and						•
Yorkshire	All	5,720	80.8	3 27.4	6.9	33.0
North East and Yorkshire	NHS Humber and North Yorkshire ICB	1,110	79.3	3 27.0	8.6	21.2
North East and Yorkshire	NHS North East and North Cumbria ICB	2,065	79.4	1 25.9	7.5	40.0
North East and Yorkshire	NHS South Yorkshire ICB	955	87.4	35.1	6.3	35.6
North East and Yorkshire	NHS West Yorkshire ICB	1,595	79.3	3 25.1	5.6	30.7

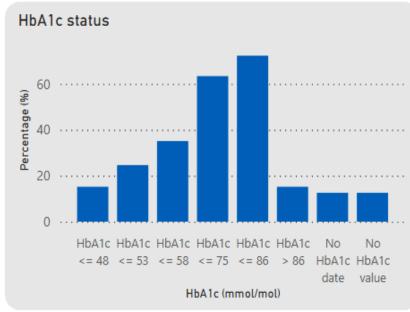
#### Notes:

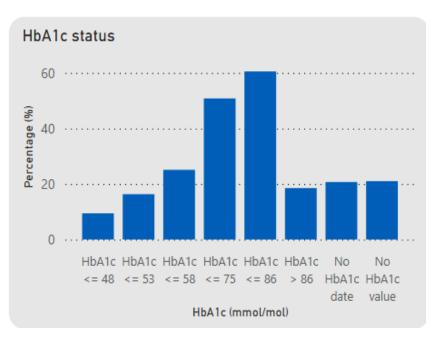
The ICB and LHB percentages which are outside of 2 standard deviations (SD) from the national average have been identified using the funnel plot methodology described on the "Funnel plot" tab.

For percentage attendance and percentage with HbA1c<=58 mmol/mol, the orange background indicates ICBs/LHBs with a percentage that is at least 2SD below the national average, and the blue background indicates a percentage that is above the national average. For percentage DKA admissions it is the other way round - the orange background indicates ICBs/LHBs with a percentage that is at least 2SD above the national average, and the blue background indicates a percentage that is below the national average.

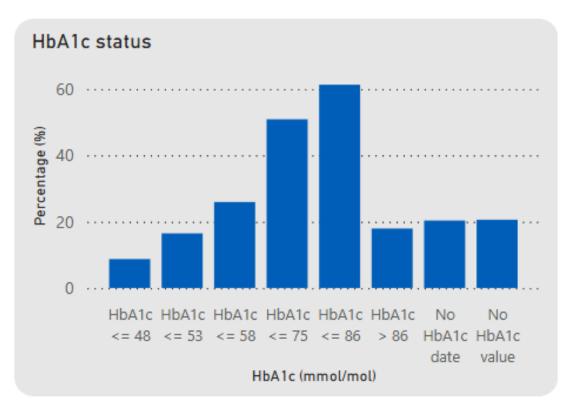
### Regional HbA1c Outcomes by ICB



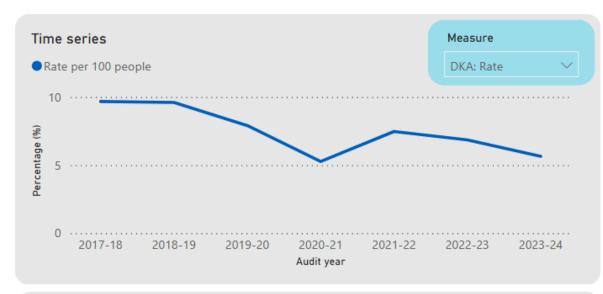


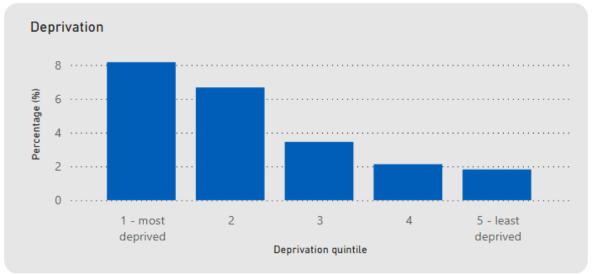


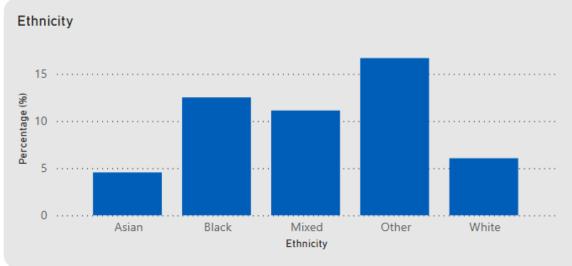
### Regional HbA1c Outcomes by ICB

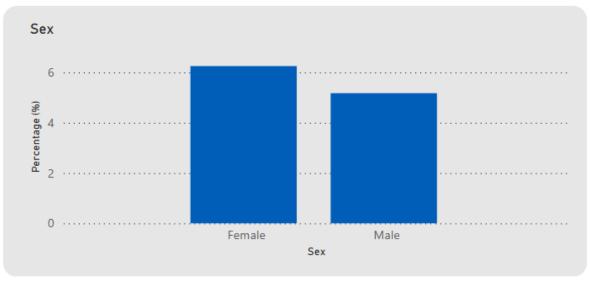


### DKA rates – West Yorkshire

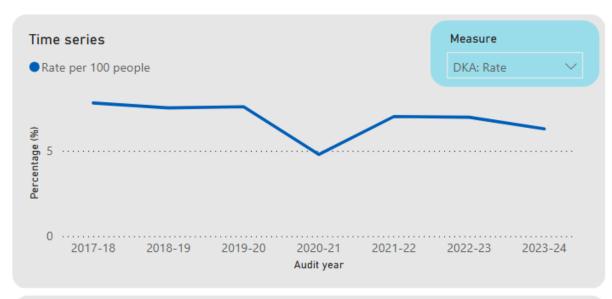


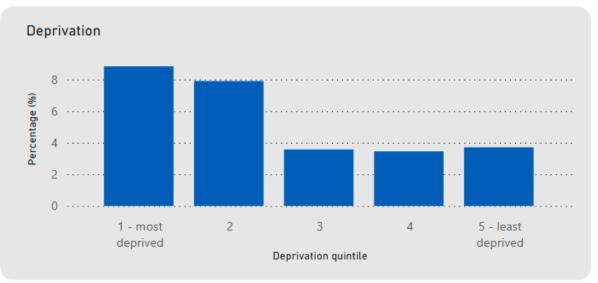


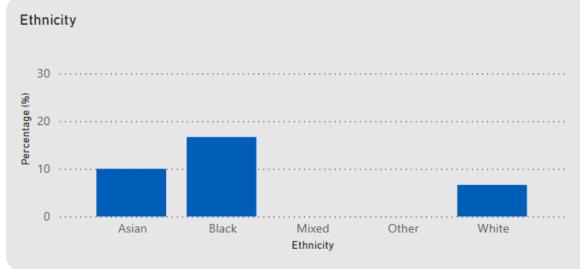


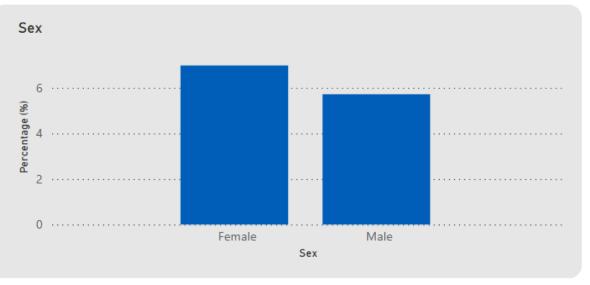


### DKA rates — South Yorkshire



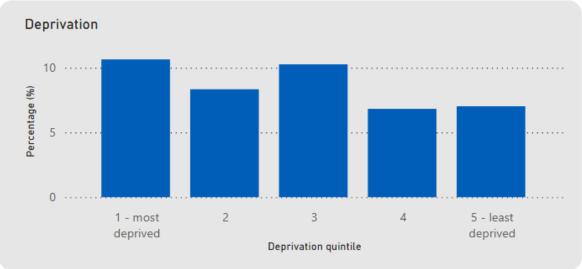


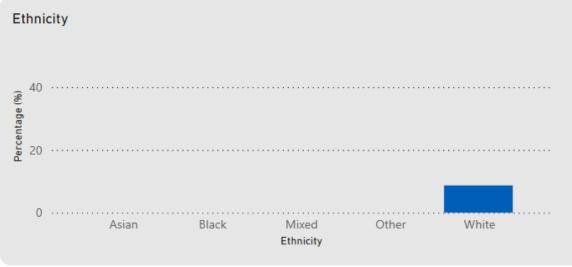


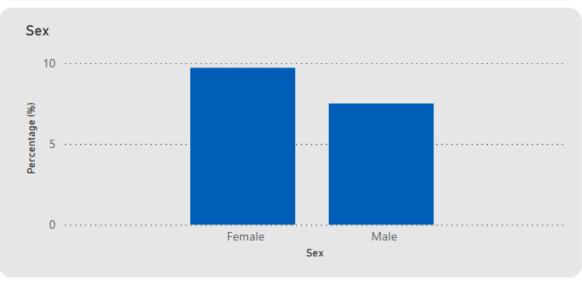


### DKA rates – Humber, North Yorkshire

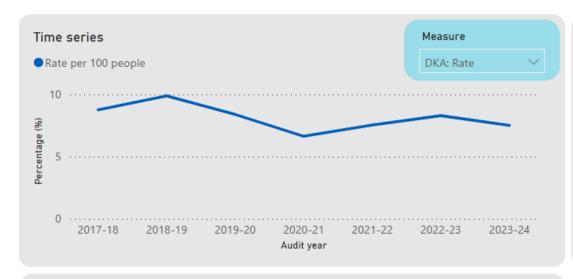


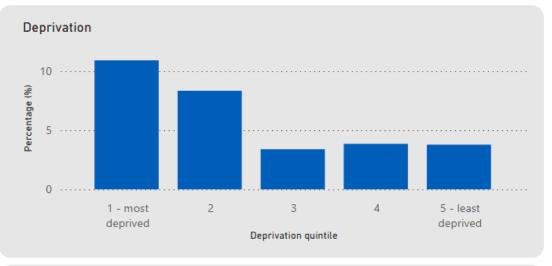


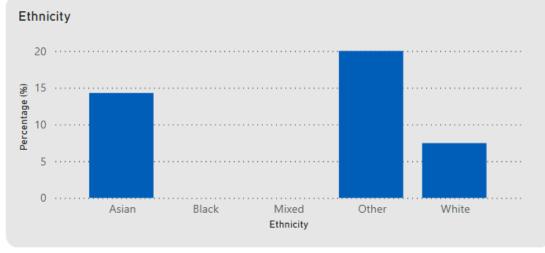


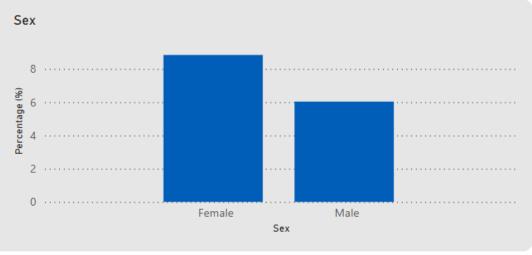


### DKA rates – NENC









### Links

AYA Dashboard for interactive charts please use- Microsoft Power BI

AYA info page with raw excel data files - <u>National Diabetes Audit, Adolescents and Young Adults with Type 1</u>
<u>Diabetes 2017-24 - NHS England Digital</u>