

eTable10: Adjusted risk ratios for achieving expected levels of attainment in Maths, comparing children with congenital anomalies (CAs) and children without, by key stage and CA subgroup, for subset of children assessed at three key stages. For each comparison, number of children without CAs= 2,009,287

subgroup	Cases, N	EYFSP		KS1		KS2	
		RR (95%CI) Sex adj.	RR (95%CI) Full adj.	RR (95%CI) Sex adj.	RR (95%CI) Full adj.	RR (95%CI) Sex adj.	RR (95%CI) Full adj.
Any CA	62,725	0.95 (0.94,0.95)	0.95 (0.95,0.95)	0.93 (0.93,0.94)	0.94 (0.93,0.94)	0.94 (0.93,0.94)	0.94 (0.94,0.94)
Neural Tube Defects	198	0.89 (0.81,0.97)	0.91 (0.84,0.99)	0.88 (0.80,0.96)	0.90 (0.82,0.98)	0.88 (0.80,0.96)	0.89 (0.82,0.98)
Hydrocephalus	211	0.78 (0.70,0.86)	0.79 (0.71,0.88)	0.77 (0.69,0.85)	0.78 (0.70,0.87)	0.74 (0.66,0.83)	0.75 (0.67,0.84)
Congenital Cataract	312	0.95 (0.89,1.01)	0.96 (0.90,1.02)	0.93 (0.88,0.99)	0.94 (0.89,1.00)	0.92 (0.87,0.99)	0.93 (0.87,0.99)
Congenital Heart Defects (CHD)	8,705	0.90 (0.89,0.92)	0.91 (0.90,0.92)	0.88 (0.87,0.89)	0.88 (0.87,0.90)	0.88 (0.87,0.90)	0.89 (0.88,0.90)
Ventricular Septal Defect	2,194	0.95 (0.93,0.97)	0.96 (0.93,0.98)	0.93 (0.90,0.95)	0.93 (0.91,0.95)	0.93 (0.91,0.96)	0.94 (0.92,0.96)
Pulmonary Valve Stenosis	345	0.88 (0.83,0.94)	0.88 (0.83,0.94)	0.86 (0.80,0.92)	0.86 (0.81,0.93)	0.82 (0.76,0.89)	0.82 (0.76,0.89)
PDA as only CHD in term infants	1,349	0.86 (0.83,0.89)	0.87 (0.84,0.91)	0.83 (0.80,0.87)	0.84 (0.81,0.87)	0.84 (0.80,0.87)	0.84 (0.81,0.87)
Severe CHD	2,312	0.92 (0.90,0.94)	0.93 (0.90,0.95)	0.88 (0.86,0.91)	0.89 (0.86,0.91)	0.89 (0.87,0.91)	0.89 (0.87,0.91)
Atrioventricular Septal Defect	266	0.91 (0.85,0.98)	0.92 (0.86,0.99)	0.88 (0.82,0.95)	0.89 (0.83,0.96)	0.84 (0.77,0.91)	0.85 (0.78,0.92)
Tetralogy of Fallot	427	0.92 (0.87,0.98)	0.93 (0.88,0.98)	0.86 (0.81,0.92)	0.87 (0.82,0.92)	0.92 (0.87,0.97)	0.92 (0.87,0.97)
Hypoplastic Left Heart	141	0.83 (0.74,0.93)	0.85 (0.76,0.95)	0.80 (0.70,0.90)	0.81 (0.72,0.91)	0.77 (0.68,0.88)	0.78 (0.69,0.89)
Respiratory	556	0.88 (0.84,0.93)	0.89 (0.84,0.93)	0.87 (0.83,0.92)	0.88 (0.83,0.93)	0.89 (0.84,0.94)	0.89 (0.85,0.94)
Cleft Lip	746	0.96 (0.92,1.00)	0.96 (0.92,1.00)	0.94 (0.90,0.98)	0.95 (0.91,0.98)	0.99 (0.95,1.02)	1.00 (0.96,1.03)
Cleft Palate	887	0.88 (0.84,0.91)	0.88 (0.84,0.91)	0.85 (0.82,0.89)	0.86 (0.82,0.89)	0.89 (0.85,0.93)	0.89 (0.86,0.93)
Cleft Lip and Palate	943	0.88 (0.84,0.92)	0.89 (0.85,0.92)	0.89 (0.86,0.93)	0.90 (0.86,0.93)	0.89 (0.85,0.92)	0.90 (0.86,0.94)
Digestive System	2,470	0.95 (0.93,0.98)	0.96 (0.94,0.98)	0.94 (0.92,0.97)	0.95 (0.93,0.97)	0.95 (0.93,0.97)	0.96 (0.94,0.98)
Anorectal Malformations	155	0.93 (0.85,1.02)	0.94 (0.86,1.02)	0.94 (0.86,1.02)	0.94 (0.86,1.03)	0.93 (0.85,1.02)	0.94 (0.86,1.03)
Hirschsprung's Disease	366	0.98 (0.92,1.03)	0.98 (0.93,1.03)	0.96 (0.91,1.02)	0.97 (0.91,1.02)	0.96 (0.91,1.02)	0.97 (0.92,1.02)
Gastroschisis	657	0.88 (0.84,0.93)	0.94 (0.90,0.99)	0.85 (0.81,0.89)	0.91 (0.87,0.96)	0.86 (0.81,0.90)	0.93 (0.88,0.98)
Unilateral Renal Agenesis	269	0.99 (0.94,1.06)	1.00 (0.94,1.06)	1.02 (0.97,1.08)	1.03 (0.97,1.08)	0.96 (0.90,1.03)	0.97 (0.91,1.03)
Congenital Hydronephrosis	3,093	0.98 (0.97,1.00)	0.98 (0.96,0.99)	1.00 (0.99,1.02)	1.00 (0.98,1.01)	0.99 (0.97,1.01)	0.99 (0.97,1.00)
Hypospadias	2,871	0.97 (0.95,0.99)	0.97 (0.95,0.99)	0.97 (0.95,0.99)	0.97 (0.95,0.99)	0.98 (0.96,1.00)	0.98 (0.96,1.00)
Club Foot - Talipes Equinovarus	1,924	0.98 (0.96,1.00)	0.98 (0.96,1.00)	0.96 (0.94,0.99)	0.96 (0.94,0.99)	0.96 (0.94,0.99)	0.97 (0.94,0.99)
Polydactyly	3,017	0.97 (0.96,0.99)	1.00 (0.98,1.02)	0.97 (0.95,0.99)	0.99 (0.97,1.00)	0.97 (0.96,0.99)	0.98 (0.96,1.00)

Syndactyly	1,362	0.97 (0.94,1.00)	0.96 (0.93,0.99)	0.98 (0.95,1.00)	0.97 (0.94,1.00)	0.97 (0.95,1.00)	0.97 (0.94,1.00)
Craniosynostosis	434	0.99 (0.94,1.04)	0.98 (0.93,1.02)	0.93 (0.88,0.98)	0.92 (0.88,0.97)	0.93 (0.88,0.98)	0.92 (0.88,0.97)
Down Syndrome	53	0.55 (0.41,0.75)	0.55 (0.41,0.74)	0.42 (0.29,0.61)	0.41 (0.28,0.60)	0.47 (0.33,0.67)	0.46 (0.33,0.65)
Turner Syndrome	89	0.71 (0.59,0.84)	0.70 (0.59,0.84)	0.59 (0.48,0.73)	0.59 (0.48,0.73)	0.62 (0.50,0.76)	0.62 (0.50,0.76)
Klinefelter Syndrome	50	1.03 (0.89,1.18)	0.98 (0.86,1.12)	0.70 (0.55,0.89)	0.67 (0.53,0.86)	0.60 (0.45,0.80)	0.58 (0.43,0.77)
Di George Syndrome	44	0.37 (0.23,0.58)	0.36 (0.23,0.57)	0.31 (0.18,0.51)	0.31 (0.18,0.51)	0.28 (0.16,0.49)	0.28 (0.16,0.49)
Karyotype XXX	32	0.90 (0.74,1.10)	0.84 (0.69,1.02)	0.65 (0.47,0.90)	0.61 (0.44,0.85)	0.47 (0.30,0.74)	0.45 (0.29,0.70)

*CI=confidence interval; EYFSP=Early Years Foundation Stage Profile; KS1=Key Stage 1; KS2=Key Stage 2; RR=risk ratio; Sex adj.= adjusted for sex at birth; Full adj.=adjusted for sex, maternal age at birth, ethnicity, income deprivation affecting children index (IDACI) quintile, free school meals eligibility (FSME)*