

Birth Defects

Birth defects data by county for the years 2000-2005 was obtained from “*Colorado Responds to Children with Special Needs (CRCSN)*”, Colorado’s birth defects monitoring and prevention program. This organization is located within the Colorado Department of Public Health and Environment. To be included in CRCSN, a child must be a Colorado resident diagnosed prenatally to three years of age with an eligible condition. Eligible conditions include medical conditions, medical risk factors for developmental delay, or one of two environmental (i.e., maternal) risk factors for delay. Children who meet these criteria are identified, using information from hospitals, vital records (birth, death, and fetal death certificates), from the Newborn Screening Program, the Newborn Hearing Screening Program, laboratories, physicians, and specialty clinics (e.g., genetic or developmental clinics)

Table 16 shows the number of live births identified in Garfield County by year of birth for the time period 2000-2005.

Table 16. Number of Resident Live Births in Garfield County: 2000-2005

YEAR	LIVE BIRTHS
2000	786
2001	782
2002	855
2003	871
2004	803
2005	816
Total	4,913

Table 17 shows that Garfield County’s overall rates for major congenital anomalies (birth defects) are no higher than those observed for a comparison area of all counties in Colorado excluding Garfield County.

TABLE 17. RATES OF BIRTH DEFECTS 2000-2005

DIAGNOSIS CATEGORY	Garfield County				Colorado excluding Garfield County			
	Count	Rate	Lower Limit	Upper Limit	Count	Rate	Lower Limit	Upper Limit
MAJOR CONGENITAL ANOMALIES	261	531.2	470.2	597.7	21,445	532.6	525.7	539.6
CENTRAL NERVOUS SYSTEM	21	42.7	26.5	65.3	1,067	26.5	24.9	28.1
ANENCEPHALUS AND SIMILAR ANOMALIES	1	2.0	0.1	11.3	18	0.4	0.3	0.7
ENCEPHALOCELE	1	2.0	0.1	11.3	27	0.7	0.4	1.0
MICROCEPHALUS	5	10.2	3.3	23.7	226	5.6	4.9	6.4
CONGENITAL HYDROCEPHALUS WITHOUT SPINA BIFIDA	8	16.3	7.0	32.1	281	7.0	6.2	7.8
EYE	7	14.2	5.7	29.3	599	14.9	13.7	16.1
MAJOR EYE	5	10.2	3.3	23.7	463	11.5	10.5	12.6
MICROPHTHALMOS	1	2.0	0.1	11.3	44	1.1	0.8	1.5
CONGENITAL CATARACT AND LENS ANOMALIES	1	2.0	0.1	11.3	130	3.2	2.7	3.8
CARDIOVASCULAR	103	209.6	171.4	253.7	7,231	179.6	175.5	183.7
MAJOR CARDIOVASCULAR	95	193.4	156.7	235.9	6,803	169.0	165.0	173.0
TRANSPOSITION OF GREAT VESSELS	3	6.1	1.3	17.8	147	3.7	3.1	4.3
COMMON VENTRICLE	1	2.0	0.1	11.3	34	0.8	0.6	1.2
VENTRICULAR SEPTAL DEFECT	28	57.0	37.9	82.3	1,670	41.5	39.5	43.5
OSTIUM SECUNDUM TYPE ATRIAL SEPTAL DEFECT	45	91.6	66.9	122.4	2,846	70.7	68.1	73.3
ENDOCARDIAL CUSHION DEFECTS	1	2.0	0.1	11.3	154	3.8	3.2	4.5
CONGENITAL STENOSIS OF AORTIC VALVE	3	6.1	1.3	17.8	152	3.8	3.2	4.4
HYPOPLASTIC LEFT HEART SYNDROME	1	2.0	0.1	11.3	110	2.7	2.2	3.3
PULMONARY VALVE STENOSIS AND ATRESIA	4	8.1	2.2	20.8	430	10.7	9.7	11.7

DIAGNOSIS CATEGORY	Garfield County				Colorado excluding Garfield County			
	Count	Rate	Lower Limit	Upper Limit	Count	Rate	Lower Limit	Upper Limit
COARCTATION OF AORTA	10	20.4	9.8	37.4	377	9.4	8.4	10.4
ANOMALIES OF PULMONARY ARTERY	16	32.6	18.6	52.8	1,029	25.6	24.0	27.2
RESPIRATORY	17	34.6	20.2	55.3	1,231	30.6	28.9	32.3
AGENESIS, HYPOPLASIA, DYSPLASIA OF LUNG	5	10.2	3.3	23.7	180	4.5	3.8	5.2
OROFACIAL	12	24.4	12.6	42.6	769	19.1	17.8	20.5
CLEFT PALATE WITHOUT CLEFT LIP	7	14.2	5.7	29.3	360	8.9	8.0	9.9
CLEFT LIP WITH/WITHOUT CLEFT PALATE	6	12.2	4.5	26.6	450	11.2	10.2	12.3
GASTROINTESTINAL	18	36.6	21.7	57.8	2,055	51.0	48.9	53.3
MAJOR GASTROINTESTINAL	15	30.5	17.1	50.3	1,810	45.0	42.9	47.1
TRACHEOESOPHAGEAL FISTULA, ESOPHAGEAL ATRESIA AND STENOSIS	1	2.0	0.1	11.3	182	4.5	3.9	5.2
CONGENITAL HYPERTROPHIC PYLORIC STENOSIS	4	8.1	2.2	20.8	665	16.5	15.3	17.8
ATRESIA, STENOSIS OF THE LARGE INTESTINE, RECTUM, ANAL CANAL	3	6.1	1.3	17.8	211	5.2	4.6	6.0
HIRSCHSPRUNG DISEASE AND OTHER COLON DISORDERS	2	4.1	0.5	14.7	89	2.2	1.8	2.7
GENITOURINARY	97	197.4	160.4	240.3	7,389	183.5	179.4	187.7
MAJOR GENITOURINARY	97	197.4	160.4	240.3	7382	183.3	179.2	187.5
RENAL AGENESIS AND DYSGENESIS	5	10.2	3.3	23.7	162	4.0	3.4	4.7
ARM/HAND LIMB REDUCTION	1	2.0	0.1	11.3	123	3.1	2.5	3.6
LEG/FOOT LIMB REDUCTION	1	2.0	0.1	11.3	59	1.5	1.1	1.9

DIAGNOSIS CATEGORY	Garfield County				Colorado excluding Garfield County			
	Count	Rate	Lower Limit	Upper Limit	Count	Rate	Lower Limit	Upper Limit
REDUCTION DEFORMITY	2	4.1	0.5	14.7	172	4.3	3.7	5.0
ANOMALIES OF DIAPHRAGM (INC DIAPHRAGMATIC HERNIA)	2	4.1	0.5	14.7	136	3.4	2.8	4.0
ANOMLIES OF ABDOMINAL WALL	2	4.1	0.5	14.7	238	5.9	5.2	6.7
CHROMOSOMAL	15	30.5	17.1	50.3	1,131	28.1	26.5	29.8
TRISOMY 21 (DOWN SYNDROME)	3	6.1	1.3	17.8	529	13.1	12.0	14.3
TRISOMY 13 (INCLUDING PATAU SYNDROME)	1	2.0	0.1	11.3	35	0.9	0.6	1.2
TRISOMY 18 (INCLUDING EDWARDS SYNDROME)	2	4.1	0.5	14.7	40	1.0	0.7	1.4

Rates are per 10,000 live births / Lower and upper limits are 95% confidence limits based on a binomial distribution. Denominator: study area n=4,913 live births, Comparison Area n=402,643

Table 18 shows the major congenital anomaly rates by year of birth in Garfield County. These data do not indicate that the rate of major congenital anomalies was either increasing or decreasing over this time period (Cochran-Armitage Trend Test p=0.68).

Year of birth	Number of Major Anomalies	Number of Births	Major Congenital Anomaly Rate
2000	36	786	458.0
2001	46	782	588.2
2002	53	855	619.9
2003	37	871	424.8
2004	38	803	473.2
2005	51	816	625.0
Total	261	4,913	531.2

Rates are per 10,000 live births