Report

National Birth Defect Registry

April 2009

The National Birth Defect Registry was started in 1990 to collect information on all kinds of birth defects, both structural and functional, as well as information on the preconceptual and prenatal health, genetic and exposure histories of both parents. The project was designed and evaluated by an advisory board of seven prominent scientists working in fields ranging from obstetrics and genetics to epidemiology and the effects of toxic exposures on reproduction. The original questionnaire for the project was a 16-page booklet that parents filled out and mailed to Birth Defect Research for Children. Data from the questionnaire were then manually entered into an interrelational data base. Approximately 4,000 case reports were collected in this version of the registry.

In April of 2004, BDRC converted the registry to an on-line project so that parents could fill out the questionnaire at any convenient time of the day or night. The on-line project also allowed for the addition of new sections to the registry questionnaire without the cost of reprinting thousands of questionnaire booklets and mailing them to parents. The quality of data collected is more accurate as well, since the parent enters information directly into the on-line questionnaire and then BDRC staff imports the questionnaire into the main registry taking the completed questionnaire off the internet.

The registry is designed to identify patterns of similar birth defects that may have similar conditions or exposures in common in the pregnancy or pre-conceptual history. This slide presentation made to the National Institute of Environmental Health Sciences explains the operation of the registry and some of the birth defect issues we have worked on using registry data. http://www.birthdefects.org/NIEHS/3510.html

Since April of 2004, parents have completed 1853 questionnaires with case reports for 2030 children (more than one child in a family can be reported on a questionnaire) in the on-line National Birth Defect Registry. We have reports for 1095 males, 926 females and 9 cases where the sex was not entered. This is a first report of these data.

Distribution of Disabilities With a Minimum of 2 Case Reports

CountOfBirth_Defect_ID	Birth_Defect_Name
490	Motor Skills Delay
443	Speech Delay
386	Reflux
338	Allergies
338	Speech
264	Frequent Ear Infections
254	Asthma

225	Frequent Upper Respiratory Infections
209	Eczema
183	Food Sensitivity
177	Colic As Baby
175	Comprehension
173	Heart Murmur
172	Malformed Fingers, Hands Or Arms
167	Spelling/Writing
166	Jaundice At Birth
164	Scoliosis
159	Language Processing
157	Cleft Palate
156	Sensory Integration Dysfunction
152	Math LD
151	Attention Deficit With Hyperactivity
149	Anger
148	Drug Reaction
147	Mood Swings
143	Retardation
139	Anxiety Disorder
138	Unexplained Fevers
137	Muscle Pain/Weakness
136	Hypotonia
134	Abnormal Teeth
134	Chronic Stomach Problems
134	Frequent Headaches

134	Seizure Disorder
133	Sleep Disorder
127	Joint Pain
125	Partial Hearing Loss
122	Distractibility
120	Depression
120	Memory Problems
119	Ventricular Septal Defect
113	High Arched Palate
112	Heat/Cold Sensitivity
112	Malformed Toes, Feet Or Legs
111	Clubfoot
107	Gastroschisis
105	External Ear Or Ears (Absent of Malformed)
105	Low Set Ears
105	Strawberry Birth Mark
97	Cleft Lip
97	Hydrocephaly (Company)
97	Obsessive/Compulsive
97	Tracheo-Esophageal Anomaly
96	Facial Asymmetry
96	Tethered Spinal Cord
95	Apnea
95	Latex
94	Frequent Urinary Tract Infections
94	Malformations Of Vertebrae

92	Autism
91	Atrial Septal Defect
90	Lung (Absent Or Underdeveloped)
90	Vision Defect
87	Amblyopia (Lazy Eye)
87	Auditory Processing Deficit
87	Hayfever
87	Microcephaly
85	Undescended Testicles
84	Spina Bifida
82	Astigmatism
81	Cerebral Palsy
79	Light Sensitivity
79	Muscle (Absent Or Underdeveloped)
78	Imperforate Anus
77	Arnold Chiari Malformation
77	Walks On Tiptoes
76	Rib Abnormality
75	Attention Deficit Without Hyperactivity
73	Anemia
73	Dyslexia/Reading
73	Frequent Pneumonia
71	Syndactly (Webbed Fingers Or Toes)
70	Diaphragmatic Hernia
69	In Utero Growth Retardation
67	Strabismus

65	Hives
64	Acne-Like Rash
64	Chronic Fatigue
64	Micrognathia (Small Jaw)
61	Goldenhar (Hemifacial Microsomia)
60	Internal Ear Or Ears (Absent or Malformed)
59	Menstrual Problems
58	Absence Corpus Callosum
58	Dislocated Hip
58	Vater (Vacterl)
55	Ear Tag(S)
55	Patent Ductus Arteriosis
54	Neurogenic Bladder
52	Umbilical Hernia
51	Deafness
51	Reduction Deformity Upper Limb
50	Absent Kidney
49	Dysmorphic Features
49	Oppositional Defiant Disorder
48	Frequent Nose Bleeds
47	PDD (Pervasive Developmental Disorder)
47	Thyroid Defect
46	Visual Memory Deficits
45	Cafe Au Lait Birth Mark
44	Small Sex Organs
42	Apraxia

42	Bony Defect Of Skull
41	Chromosome Disorder
41	Early Puberty
40	Anencephaly
40	Constitutional Short Stature
39	Blind
39	Hypospadius
38	Asperger's
37	Growth Hormone Deficiency
37	Sensory Neural Hearing Loss
36	Craniosynostosis
36	Hypoplasia Left Heart Syndrome
36	Perseveration
35	Facial Bone Deformity
35	Hypertension
35	Pectus Excavatum
34	Early Tooth Eruption
34	Immune Deficiency
34	Ovarian Cyst
34	Poland's
33	Bi-Polar
33	Hemangioma
33	Nystagmus
33	Spina Bifida Occulta
32	Arthritis
32	Neurogenic Bowel

31	Malformed Ureter
31	Reduction Deformity Lower Limb
31	Thrush/Chronic Candida
30	Hiatal Hernia
29	Amniotic Band
29	Clubfoot With Bone Deformity
29	Inguinal Hernia
29	Polydactyly (Extra Digits)
29	Pulmonary Hypertension
28	Coarctation Of Aorta
28	Coloboma
28	Contractures Of Elbows/Knees/Joints
28	
	Hair Loss
28	Pectoralis (Absent Or Underdeveloped)
28	Single umbilical artery
28	Tetralogy Of Fallot
27	Bronchial Pulmonary Dysplasia
27	Changes In Skin Color
27	Holoprosencephaly
27	Hypoactivity
27	Hypoglycemia
27	Macrocephaly
27	Malformed Kidney
26	Brain Cyst
26	Delayed Puberty
26	Transposition Great Arteries

25	Facial Name Paralysis
25	Facial Nerve Paralysis
25	Pulmonary Valve Stenosis/Atresia
25	Rectal And/Or Intestinal Atresia
25	Swollen/Or Bleeding Gums
24	Aortic Valve Stenosis/Atresia
24	Psoriasis
24	Thin Corpus Callosum
23	Autoimmune Disorder
23	Chronic Tinnitus (Ringing In Ears)
23	Encephalocele
22	Cataract
22	Cortical Blindness
22	Diabetes
22	Pierre Robin
22	Pyloric Stenosis
21	Clubbed Hands
20	Breaks Law/Rules Of Society
20	Chronic Virus
20	Infertility
20	Malformed Sex Organs
20	Micropthalmia
20	Pituitary Defect
19	Intrauterine Stroke
19	Lipoma
18	Bicuspid Aortic Valve
18	Cardiac Arrhythmia

18	Exotropia
18	Manic Depression
18	Pigeon Chest
17	Horseshoe Kidney
17	Mitral Valve Prolapse
17	Optic Nerve Atrophy
17	Polycystic Kidney
17	Port Wine Stain
17	Ptosis
17	Skin Fungus
17	Twisted Lower Limb
16	Ataxia
16	Dermoid Cysts
16	Endometriosis
16	Mitral Valve Regurgitation
16	Omphalocele
15	Clinodactyly
15	Hypertelorism
15	
	Pulmonary Atresia/Hypoplasia
14	Bladder Exstrophy
14	Bradycardia
14	Cystic Hygroma
14	Diabetes Insipidus
14	Short Bowel
13	Failure to Thrive
13	Glaucoma

13	Potter's
13	Syringomyelia
13	Turner's
12	Ambiguous Genitalia
12	Aphasia
12	Chronic constipation
12	Dandy Walker Malformation
12	Double Outlet Right Ventricle
12	G-Tube dependant
12	Liver Function Disorder
12	Sacral Agenesis
12	Septo-Optic Dysplasia
12	Trisomy
11	Caudal Regression Syndrome
11	Charge
11	Choanal Atresia
11	Downs'
11	Lipomyelomeningocele
10	Cloacal Exstrophy
10	ganglion cyst
10	Hepatomegaly (Enlarged Liver)
10	Hirschsprung Disease
10	Hydrocele
10	IBS
10	Lissencephaly
10	Overgrowth Of Lower Limb

10	Rheumatoid Arthritis
9	Absence Of Septum Pellucidum
9	Absent Bladder
9	Arthrogryposis
9	Cardiomyopathy
9	Delayed Myelination
9	Dextrocardia
9	Macrostomia
9	Preauricular Pits
8	Borderline Personality Disorder
8	Edward's
8	Hypertonia
8	Neurofibromatosis
8	
	Overgrowth (Giant)
8	Pulmonary Artery Anomaly
7	Anophthalmia (Missing Eye)
7	Cardiomegaly
7	Ehlers Danlos
7	hydronephrosis
7	Hypoplastic Right Heart Syndrome
7	Lymphangioma
7	Mitral Valve Stenosis
7	Periventricular Leukomalacia
7	Tricuspid Valve Stenosis/Atresia
7	Vascular Ring
6	Anorexia Or Bulimia

6	Bicornuate Uterus
6	Cerebellar Hypoplasia
6	Crohn's Disease
6	Ebstein's Anomaly
6	Epispadias
6	Osteogenesis Imperfecta
6	Overgrowth Of Upper Limb
6	Twisted Upper Limb
5	Adams oliver syndrome
5	Biliary Atresia
5	developmental delay
5	Digeorge
5	Endocardial Cushion Defect
5	Hemihypertrophy
5	Incontinentia Pigmenti
5	Peripheral Pulmonary Stenosis
5	Schizencephaly
5	Splenomegaly (Enlarged Spleen)
5	Static Encephalopathy
4	Absent Gall Bladder
4	Achondroplastic Dwarfism
4	Aplasia Cutis Congenita
4	Congenital Cystic Adenomatoid Malformation
4	Cornelia De Lange
4	fibular hemimelia
4	Hydranencephaly

4	Leukodystrophy
4	Macroglossia
4	Malrotation
4	Muscular Dystrophy
4	Red Dye #40
4	sacral dimple
4	Spondylolisthesis
4	Teratomas
4	Williams
4	Wolff-Parkinson White
3	Albinism
3	Astrocytoma
3	cleft mitral valve
3	CMV Virus
3	Duane Refraction
3	Ectodermal Dysplasia
3	Hernia
3	kidney reflux
3	Klippel-Fiel
3	Lennox-Gastaut
3	Leukemia
3	Noonan's
3	Primary Immune Defect
3	PTSD
3	Schizophrenia
3	Spinal Muscular Atrophy

3	Stickler's
3	torticollis
3	Truncus Arteriosus
2	Absent Spleen
2	Acrania
2	Adhesives
2	Aicardi
2	anal stricture
2	Auditory Neuropathy
2	
	big forehead
2	Bilateral Periventricular Nodular Heterotopia
2	Binder Syndrome
2	Bladder Spasms
2	Cavernous Hemangioma
2	Celiac Disease
2	cerebellar agenesis
2	Chiari malformation
2	Chondromalacia Patellae
2	Chordee
2	Chronic lung disease
2	colpocephaly
2	CONGESTIVE HEART FAILURE
2	Conradi-Hunermann Syndrome
2	cortical visual impairment
2	Cri Du Chat
2	Croup

2	Cushing's
2	cyclopia
2	dysgraphia
2	Dysmotility of the intestines
2	Eosinophilic Esophagitis
2	epilepsy
2	Giant Congenital Pigmented Nevus Leg
2	glasses
2	heart defect
2	Hemimegalencephaly
2	Holt-Oram
2	Hyperpigmentation Of Gums
2	hypoplastic aorta
2	IGA deficiency
2	infantile spasms
2	infections
2	inperforate anus
2	interrupted aortic arch
2	kyphosis
2	L1CAM Syndrome
2	Lamellar Ichthyosis
2	large head
2	latex precaution
2	Ischnyhan
2	lung
2	lupus

2	Meckels Gruber
2	moles
2	mongolian spots
2	Neo Vaginal
2	Neutropenia
2	nevus
2	No Thyroid gland
2	patent Foramen Ovale
2	Peutz Jeghers Syndrome
2	PHPV
2	Pierre Robin Syndrome
2	Pilonidal Cyst
2	plastic tape
2	Polymicrogyria
2	Porencephaly
2	Precocious Puberty
2	Prune Belly
2	pulmonary sequestration
2	Russell-Silver
2	sensitive skin
2	Severe Combined Immunodeficiency
2	spinal cord
2	splenic cyst
2	split spinal cord
2	spinal fluid leak
2	STENOSIS

2	stork bite
2	Sturge-Webber
2	Supraventricular Tachycardia
2	tape allergy
2	Tar
2	Taussig-Bing anomoly
2	tibial torsion
_	
2	Tourettes'
2	tracheamalacia
2	Tree short Calling
2	Treacher Collins
2	two vessel cord
2	two vesser coru
2	ulcerative colitis
	diccidelyc contis
2	ventriculomegaly
	13
2	Vesicostomy
	,
2	wide set nipples

Reports by Category

Group_Name	CountOfBirth_Defect_ID
Learning Disabilities	1637
Developmental Delay	1265
Allergies	1232
Gastrointestinal	1176
Cranial/Facial	1104
Central Nervous System	1044
Cardiovascular	951
Limb Defects	890

Immune Response Disorders	890
Emotional/Behavioral	810
Eye	661
Ear	647
Skin	641
Genitourinary	561
Syndromes	517
Spine	421
Muscle	416
Attention Deficit/Activity Disorders	411
Chest	317
Endocrine	230
Liver/Bile Duct/Spleen	228
Growth Disorders	210
Cysts	113
Tumors-Benign	112
Cancer	24

Questionnaires Submitted by State

CountOfReporter_ID	State
140	FL
117	TX
112	CA
97	ОН
76	NY
75	IL
63	PA
61	MI
56	NC
52	TN

50	IN
47	GA
47	VA
43	NJ
40	MO
38	WA
35	MA
35	MN
33	KY
32	OR
31	AL
31	AR
31	MD
31	WI
28	IA
26	AZ
25	LA
24	OK
22	WV
21	СО
20	SC
17	KS
15	ID
13	NE
12	ME
12	NH
12	SD
11	СТ
10	NV
9	UT
8	MT
8	NM
8	RI
7	DE
7	HI
7	MS
3	ND
2	AK
2	VT
2	WY
79	Other Countries

State Not ReportedGuamPuerto RicoAPO

1853