

Table F-1. Percent Agreement and *Kappa* Index Between Reabstracted and Original Records for Random Sample Reabstraction and Defects Reabstraction, by Variable, General Birth Defects Study

Variable	Variable Number	Random Sample (N=184)		Records with Defects (N=202)	
		% Agreement	<i>Kappa</i> Index (%)	% Agreement	<i>Kappa</i> Index (%)
Month of birth	7	97.8	97.6	99.5	99.5
Day of birth	7	98.9	98.9	98.0	97.9
Year of birth	7	98.9	98.8	98.0	97.9
Month of admission	12	97.8	97.6	99.5	99.5
Day of admission	12	97.3	97.2	98.5	98.5
Year of admission	12	97.8	97.7	99.0	98.9
Month of discharge	13	96.2	95.8	97.5	97.3
Day of discharge	13	95.1	94.9	96.0	95.9
Year of discharge	13	97.8	97.7	97.0	96.8
Mother's age	29	91.3	90.3	90.1	89.2
Mother's race	30	92.9	87.2	93.1	88.3
Marital status	31	90.2	49.2	92.6	56.0
Mother's education	32	98.4	96.7	96.5	91.8
Gravida	34	96.2	95.0	92.1	89.9
Para	35	95.1	93.2	92.1	89.3
Abortions	36	91.3	82.4	87.6	75.7
Mother's ABO	38	95.1	93.2	91.6	88.1
Mother's Rh	39	96.7	93.9	90.6	81.9
Prenatal care	40	90.2	80.4	87.6	75.5
No. prenatal visits	41	94.6	88.7	95.5	88.9
Pregnancy complications	45	84.2	73.7	87.1	79.1
Previous illness	46	79.9	60.5	76.2	51.3
Labor	47	85.9	74.6	75.7	59.1
Induction	48	82.6	66.8	77.2	59.0
Presentation	49	89.7	79.6	87.6	77.9
Delivery	50	91.3	87.4	91.1	87.2
C-Section	51	94.6	86.8	91.6	82.8
Anesthesia	52	86.4	82.6	88.6	85.2
Labor complications	53	69.6	54.3	73.8	60.6
Outcome	54	99.5	79.8	100.0	50.0
Infant sex	57	97.8	95.6	99.0	98.0
Infant race	58	84.2	62.4	87.6	77.2
Plurality	59	99.5	79.8	99.5	80.7
Gestational age	64	92.9	89.1	87.6	82.4
Gestational age category	65	85.3	70.9	86.6	72.6
Apgar 1'	67	95.1	93.7	93.1	91.4
Apgar 5'	67	94.6	88.7	95.0	93.3
Resuscitation	68	86.4	54.3	79.7	51.6
Infant ABO	70	95.7	90.2	95.5	92.2
Infant Rh	71	95.1	88.7	95.0	90.7
Circumcision	72	96.2	93.6	92.1	87.6
Feeding	73	87.0	80.2	81.7	73.3
Prematurity	74	97.8	86.8	97.5	85.2
Hyaline membrane disease	75	97.8	81.0	96.0	74.5
Hemolytic dis ABO	76	99.5	85.5	99.0	79.6
Hemolytic dis Rh	76	98.9	66.3	99.0	0.0
Sepsis	77	99.5	93.9	96.0	58.2
Meningitis	77	98.9	66.3	100.0	50.0
Asphyxia	78	98.9	66.3	98.0	59.3
Seizures	79	99.5	90.7	99.5	80.7
Jaundice	80	94.0	79.7	91.1	76.6
Pathology	93	86.4	33.9	81.2	80.4
Surgery	94	98.4	81.7	94.6	73.6
Autopsy	96	97.3	53.7	98.0	79.2
Status	98	98.9	79.4	98.5	86.2
Month of death	99	100.0	100.0	99.5	95.1
Day of death	99	100.0	100.0	99.5	95.1
Year of death	99	100.0	100.0	99.0	90.6

Table F-2. Kappa Index (%) for Intraobserver and Interobserver Agreement for Reabstracted Random Sample Records and Records with Defects, General Birth Defects Study

Variable	Variable Number	Random Sample (N=184)		Records with Defects (N=202)	
		Intraobserver Kappa (%)	Interobserver Kappa (%)	Intraobserver Kappa (%)	Interobserver Kappa (%)
Month of birth	7	97.3	97.8	100.0	98.1
Day of birth	7	98.7	99.0	98.6	97.5
Year of birth	7	100.0	97.9	95.8	98.1
Month of admission	12	100.0	95.7	100.0	98.1
Day of admission	12	97.4	96.9	98.6	98.3
Year of admission	12	98.7	96.8	98.6	98.1
Month of discharge	13	98.7	93.5	95.6	98.3
Day of discharge	13	96.2	93.9	95.9	98.9
Year of discharge	13	97.4	97.9	95.8	97.5
Mother's age	29	95.9	85.6	95.7	88.1
Mother's race	30	95.3	80.8	86.9	89.2
Marital status	31	64.0	41.9	48.6	56.4
Mother's education	32	97.8	95.4	92.8	97.2
Gravida	34	96.8	93.5	88.1	97.0
Para	35	93.3	93.1	--	--
Abortions	36	90.0	76.4	--	--
Mother ABO	38	98.3	89.2	90.8	88.4
Mother Rh	39	97.8	90.4	90.4	78.3
Prenatal care	40	79.7	80.3	68.2	78.8
No. prenatal visits	41	90.9	86.1	93.2	--
Pregnancy complications	45	76.6	69.0	85.6	74.5
Previous illness	46	63.2	56.1	72.7	33.6
Labor	47	84.0	67.3	69.4	52.8
Induction	48	78.2	58.0	74.5	43.2
Presentation	49	85.9	74.2	76.3	73.3
Delivery	50	91.4	83.8	90.6	83.1
C-Section	51	91.2	82.2	86.5	81.4
Anesthesia	52	87.0	78.9	95.0	73.7
Labor complications	53	65.3	45.3	72.3	53.4
Outcome	54	100.0	66.3	50.0	51.0
Infant sex	57	95.1	96.1	97.4	93.4
Infant race	58	64.7	60.2	87.2	71.3
Plurality	59	66.3	100.0	100.0	73.7
Gestational age	64	89.8	88.4	85.0	81.8
Gestational age category	65	76.3	64.2	69.0	71.8
Apgar 1'	67	96.7	--	98.4	83.9
Apgar 5'	67	96.5	93.2	98.2	--
Resuscitation	68	77.5	32.1	71.7	41.3
Infant ABO	70	100.0	83.7	100.0	87.2
Infant Rh	71	96.7	83.5	100.0	84.7
Circumcision	72	97.9	90.0	89.5	83.5
Feeding	73	79.5	80.7	73.0	73.1
Prematurity	74	87.7	85.8	78.0	92.1
Hyaline membrane	75	90.4	71.7	63.2	83.1
Hemolytic dis ABO	76	100.0	79.7	100.0	43.5
Hemolytic dis Rh	76	100.0	49.5	50.0	7.0
Sepsis	77	100.0	85.4	65.7	54.6
Meningitis	77	66.3	66.3	50.0	57.0
Asphyxia	78	100.0	49.4	79.5	35.1
Seizures	79	100.0	85.4	66.2	100.0
Jaundice	80	84.6	76.8	86.6	71.2
Pathology	93	88.2	0.0	94.1	71.2
Surgery	94	79.6	82.5	81.9	71.2
Autopsy	96	65.8	39.2	82.1	74.4
Status	98	73.7	100.0	91.6	78.3
Month of death	99	100.0	100.0	91.9	100.0
Day of death	99	100.0	100.0	91.9	100.0
Year of death	99	100.0	100.0	91.9	88.6

APPENDIX G
Birth Defect Categories

CATEGORY I DEFECTS

740.0	Anencephalus
740.1	Craniorachischisis
740.2	Iniencephaly
741.0	Spina bifida with hydrocephalus
741.9	Spina bifida without hydrocephalus
742.0	Encephalocele
742.1	Microcephalus
742.2	Reduction deformities of brain
742.3	Hydrocephalus
743.0	Anophthalmos
743.1	Microphthalmos
743.2	Buphthalmos
743.3	Congenital cataract
743.4	Coloboma/aniridia of anterior segments of eye
743.5	Coloboma/aniridia of posterior segments of eye
744.0	Anomalies of ear causing impairment of hearing
745.0	Common truncus
745.1	Transposition of great vessels
745.2	Tetralogy of Fallot
745.3	Common ventricle
745.4	Ventricular septal defect
745.5	Atrial septal defect
745.6	Endocardial cushion defects
745.7	Cor biloculare
745.9	Unspecified defect of cardiac septal closure
746.0-746.7	Anomalies of heart valves
747.0	Patent ductus arteriosus (for infants weighing 2500g or more)
747.1	Coarctation of aorta
747.2	Other anomalies of aorta
747.3	Stenosis or atresia of pulmonary artery
747.4	Anomalies of great veins
748.0	Choanal atresia
748.4	Congenital cystic lung
748.5	Agenesis of lung
749.0	Cleft palate
749.1	Cleft lip
749.2	Cleft palate with cleft lip
750.3	Tracheo-esophageal fistula, esophageal atresia
750.5	Pyloric stenosis
751.1	Atresia and stenosis of small intestine
751.2	Atresia and stenosis of large intestine
751.3	Hirschsprung's disease
751.4	Anomalies of intestinal fixation

751.6 Anomalies of gallbladder, bile ducts, liver
751.7 Anomalies of pancreas
752.0-752.3 Anomalies of ovary, fallopian tubes, uterus
752.4 Anomalies of cervix, vagina, and external female genitalia
752.6 Hypospadias and epispadias
752.7 Indeterminate sex and pseudohermaphroditism
753.0 Renal agenesis
753.1 Cystic kidney disease
753.2 Obstructive defects of urinary tract
753.5 Exstrophy of urinary bladder
753.6 Atresia and stenosis of urethra and bladder
754.3 Congenital dislocation of hip
755.2 Reduction deformities of upper limb
755.3 Reduction deformities of lower limb
755.4 Reduction deformities, unspecified limb
755.8 Arthrogryposis multiplex congenita
756.4 Chondrodystrophy
756.6 Diaphragmatic hernia (congenital)
756.7 Abdominal wall defects
757.0 Hereditary edema of legs
758.0 Down's syndrome
758.1-758.9 Other chromosomal syndromes
759.0 Anomalies of spleen
759.1 Anomalies of adrenal gland
759.2 Anomalies of thyroid and other endocrine glands
759.3 Situs inversus
759.4 Conjoined twins
759.5 Tuberosus sclerosis
759.6 Other hamartoses
759.7 Multiple congenital anomalies unspecified
759.8 Other specified anomalies

CATEGORY II DEFECTS

- 742.4 Other specified anomalies of brain
- 742.5 Other specified anomalies of spinal cord
- 742.8 Other anomalies of nervous system
- 743.6 Congenital anomalies of eyelids
- 743.8 Other specified anomalies of eye
- 744.2 Other specified anomalies of ear
- 744.8 Other specified anomalies of face and neck
- 745.8 Other specified anomalies of cardiac septal closure
- 746.8 Other specified anomalies of heart
- 747.6 Other anomalies of peripheral vascular system
- 747.8 Other specified anomalies of circulatory system
- 748.1 Other anomalies of nose
- 748.3 Other anomalies of larynx, trachea and bronchus
- 748.6 Other anomalies of lung
- 748.8 Other specified anomalies of respiratory system
- 750.1 Anomalies of tongue
- 750.4 Other specified anomalies of esophagus
- 750.7 Other specified anomalies of stomach
- 750.8 Other specified anomalies of upper alimentary tract
- 751.5 Other anomalies of intestines
- 751.8 Other specified anomalies of digestive system
- 752.8 Other specified anomalies of genital system
- 753.3 Other specified anomalies of kidney
- 753.4 Other specified anomalies of ureter
- 753.8 Other specified anomalies of bladder and urethra
- 754.0 Musculoskeletal deformities of skull, face and jaw
- 754.1 Musculoskeletal deformities of sternocleidomastoid muscle
- 754.4 Congenital genu recurvatum and bowing of legs
- 754.5-754.7 Clubfoot/deformities of feet
- 754.8 Other specified musculoskeletal deformities
- 755.5 Other anomalies of upper limb
- 755.6 Other anomalies of lower limb
- 755.9 Other unspecified limb anomalies
- 756.0 Anomalies of skull and face bones
- 756.1 Anomalies of spine
- 756.3 Other anomalies of ribs and sternum
- 756.5 Osteodystrophies
- 756.8 Other specified anomalies of muscle and tendon
- 757.1 Ichthyosis congenita
- 757.3 Other specified anomalies of skin
- 757.4 Specified anomalies of hair
- 757.5 Specified anomalies of nails
- 757.8 Other specified anomalies of the integument

CATEGORY III DEFECTS

742.9	Unspecified anomalies of central nervous system
743.9	Unspecified anomalies of eye
744.1	Accessory auricle
744.3	Unspecified anomalies of ear
744.4	Branchial cleft, cyst, or fistula; preauricular sinus
744.5	Webbing of neck
744.9	Unspecified anomalies of face and neck
746.9	Unspecified anomaly of heart
747.5	Absence or hypoplasia of umbilical artery
747.9	Unspecified anomalies of circulatory system
748.2	Web of larynx
748.9	Unspecified anomalies of respiratory system
750.0	Tongue tie
750.2	Other specified anomalies of mouth, pharynx, and uvula
750.6	Congenital hiatus hernia
750.9	Unspecified anomalies upper alimentary tract
751.0	Meckel's diverticulum
751.9	Unspecified anomalies of digestive system
752.5	Undescended testicle
752.9	Unspecified anomalies of genital organs
753.7	Anomaly of urachus
753.9	Unspecified anomalies of urinary system
754.2	Musculoskeletal deformities of spine
755.0	Polydactyly
755.1	Syndactyly
756.2	Musculoskeletal anomalies of cervical rib
756.9	Unspecified anomalies of musculoskeletal system
757.2	Dermatoglyphic anomalies
757.6	Anomalies of breast
757.9	Unspecified anomalies of the integument
759.9	Other unspecified congenital anomalies