Appendix 2. Association of Copy Number Variants With Specific Ultrasonographically Detected Fetal Anomalies

Ultrasound Anomaly Details

☐ Abdominal wall					
☐ Bladder ex ☐ Body-stalk ☐ Cloacal ex ☐ Gastroschi ☐ Omphaloc ☐ Other: free	anomaly strophy sis ele				
☐ Agenesis of ☐ Anencepha ☐ Arachnoid ☐ Cerebellar ☐ Chiari mal ☐ Dandy-Wa ☐ Encephalo ☐ A ☐ Policy ☐ Holoprose. ☐ Hydranenc. ☐ Iniencepha ☐ Lissencepl ☐ Parenchyn ☐ Posterior ff ☐ Spina biffo ☐ Vascular a ☐ Ventriculo (13-15mm) ○ Severe ☐ Bilateral ☐ Other: Free	cyst hypoplasia formation ilker malformation cele interior osterior incephaly sephaly sephaly soly inal defect ossa cyst la inomaly megaly/Hydrocephaly (>15mm) O Mild (10-12mm) interest box malformation inilateral ilateral	O Moderate (□ Unilateral	O Mild (10-12mm) evere (>15mm)	O Moderate
□ Effusion					
O Pe	usion only scites ericardial effusion eural effusion kin edema				

Donnelly JC, Platt LD, Rebarber A, Zachary J, Grobman WA, and Wapner RJ. Association of copy number variants with specific ultrasonographically detected fetal anomalies. Obstet Gynecol 2014;124.

☐ Other: <i>free text box</i>	
□ Fac	
☐ Eye anomalies	
☐ Cyclopia	
☐ Hypertelorism	
☐ Hypotelorism	
☐ Microphthalmia	
\Box Other: free text box	
☐ Facial tumor	
☐ Lip - Cleft	
O Unilateral	
O Midline	
O Bilateral	
□ Nose	
☐ Absent / hypoplastic nose bone	
☐ Depressed nasal bridge	
□ Palate – Cleft	
□ Profile	
☐ Frontal bossing	
☐ Micrognathia	
Profile Flat	
\Box Other: <u>free text box</u>	
☐ Fetal growth restriction	
Expected fetal weight	
$O < 3^{rd}$ percentile	
$O < 5^{th}$ percentile	
O < 3 rd percentile O < 5 th percentile O < 10 th percentile	
☐ Gastro-intestinal tract	
☐ Abdominal cyst	
☐ Anal atresia	
□ Bowel	
☐ Large obstruction	
☐ Meconium ileus	
☐ Small obstruction	
☐ Duodenal atresia	
☐ Liver nodules	
☐ Situs inversus	
☐ Stomach bubble	
O Enlarged	
O Small/absent	
\Box Other: <i>free text box</i>	
Conitolia	
☐ Genitalia - ☐ Ambiguous genitalia	
☐ Hydrocele	
☐ Hydrometrocolpus	
☐ Hypospadias	
☐ Micropenis	
☐ Other: free text box	
☐ Head shape - ☐ Cloverleaf skull	
☐ Craniosynostosis	
Donnelly JC, Platt LD, Rebarber A, Zachary J, Grobman WA, and Wapner RJ.	
specific ultrasonographically detected fetal anomalies. Obstet Gynecol 2014;123	

	Mississipping
	☐ Microcephaly
	☐ Strawberry sign
	☐ Other: <i>free text box</i>
□ Hear	t -
	☐ Abnormal 4-chamber view
	☐ Abnormal outflow tracts
	☐ Anomalous pulmonary venous return
	□ ASD
	□ AV canal
	□ Coarctation
	☐ Dextrocardia
	☐ Dilatation
	☐ Ebsteins anomaly
	☐ Heart tumor
	☐ Hypoplastic left heart
	☐ Hypoplastic right heart
	☐ Interrupted aortic arch
	☐ Pulmonary stenosis
	☐ Tetralogy of Fallot
	☐ Transposition
	☐ Truncus Arteriosus
	VSD
	☐ Other: <i>free text box</i>
□ Neck	
□ Neck	
	☐ Cystic hygroma
	□ Nuchal fold ≥ 6mm
	\square Nuchal translucency \underline{box} (in mm)
	□ Teratoma
	☐ Other: <i>free text box</i>
	_
☐ Renal	
	☐ Abnormal adrenal glands
	☐ Hemorrhage
	☐ Tumor
	□ Bladder
	☐ Bladder Collapsed
	☐ Dilated tense
	☐ Dilated floppy
	☐ Ureterocele
	□ Duplex system
	O Unilateral
	O Bilateral
	☐ Hydronephrosis
	☐ Mild (AP 5-10mm)
	\square Moderate to severe (AP > 10mm)
	□ Kidney
	☐ Echogenic kidney
	O Unilateral
	O Bilateral
	☐ Horseshoe kidney
	☐ Large kidney
	O Unilateral
	O Bilateral
	☐ Multicystic kidney

		O Unilateral O Bilateral				
		☐ Pelvic kidney				
		☐ Polycystic kidney				
		O Unilateral O Bilateral				
		☐ Small kidney				
		O Unilateral				
		O Bilateral				
	☐ Rena	l agenesis				
		O Unilateral				
	□ Ureth	O Bilateral				
	□ Oleu	□ Absent				
		☐ Dilated/Valves				
	☐ Other	r: free text box				
_ ~						
☐ Skele						
		etal dysplasia es, check individual compo	onents be	low)		
	□ Foot					
		□ Absent			O Both	
		☐ Oligodactyly			O Both	
		☐ Polydactyly ☐ Rocker bottom foot			O Both O Both	
		☐ Sandal gap			O Both	
		□ Split foot			O Both	
		☐ Syndactyly	O Left	O Right	O Both	
		☐ Other: <i>free text box</i>				
	☐ Hand		0.7.0	0.511		
		□ Absent		O Right		
		☐ Brachydactyly ☐ Clinodactyly			O Both O Both	
		☐ Oligodactyly			O Both	
		☐ Overlapping fingers			O Both	
		□ Polydactyly			O Both	
		☐ Split hand			O Both	
		☐ Syndactyly	O Left	O Right	O Both	
		\square Other: <i>free text box</i>				
	☐ Joint:					
		☐ Ankle ☐ Fixed extende	ed.	O Left	O Right	O Roth
		☐ Fixed extends	cu		O Right	
		☐ Talipes			O Right	
		□ Elbow			C	
		☐ Fixed extende	ed		O Right	
		☐ Fixed flexed		O Left	O Right	O Both
		☐ Knee ☐ Fixed extende	a d	O I a6	O Dialet	O Doth
		☐ Fixed extended Fixed flexed	eu		O Right	
		□ Wrist		O Len	O Rigin	O Dom
		☐ Fixed extende	ed	O Left	O Right	O Both
		☐ Fixed flexed			O Right	
		☐ Other: <i>free text box</i>				
	□ Long	bones				

☐ Femur				
□ Absent	O Left	O Right	O Both	
□ Bowed		O Right		
☐ Short	O Left	O Right	O Both	
□ Fibula □ Absent	O I off	O Right	O Roth	
□ Bowed		O Right		
□ Short		O Right		
□Humerus		J		
□ Absent		O Right		
□ Bowed		O Right		
☐ Short	O Left	O Right	O Both	
□ Radius □ Absent	O Laft	O Right	O Doth	
□ Absent □ Bowed		O Right		
□ Short		O Right		
□ Tibia		8		
☐ Absent	O Left	O Right	O Both	
□ Bowed		O Right		
□ Short	O Left	O Right	O Both	
□ Ulna	01.0	O D: 14	O D 4	
☐ Absent ☐ Bowed		O Right O Right		
□ Short	O Left	_		
\Box Other: free text box	O Ecit	o ragin	O Boun	
□ Spine -				
☐ Hemivertebrae				
☐ Kyphosis				
☐ Sacral agenesis				
☐ Sacrococcygeal teratoma☐ Scoliosis				
☐ Sirenomelia				
☐ Other: free text box				
<u></u>				
☐ Thorax -				
☐ Congenital diaphragmatic hernia				
☐ Cystic lung lesion				
☐ Hydrothorax				
☐ Hypoplastic thorax ☐ Short ribs				
☐ Other: free text box				
□ Soft markers				
☐ Choroid plexus cyst(s)				
☐ Echogenic bowel				
☐ Echogenic intracardiac focus				
☐ Nuchal Translucency of 3.0-3.4 mm ☐ Other: free text box	l			
☐ Amniotic fluid anomaly -				
☐ Oligohydramnios				
☐ Polyhydramnios				
□ Placental anomaly -				
□ Edema				

☐ Tumor
☐ Umbilical cord anomaly -
☐ 2 vessel cord ☐ Velamentous cord insertion
Full list of ultrasound detected anomalies broken down by category and subcategory as entered into online database.