

On-line Table: Characteristics of the patients with a RASopathy, their clinical features, and outcome

Case	GA (wk)	Disorder	Genetic Mutation	Antenatal Findings	Respiratory System	Cardiac Findings	Other Postnatal Findings	Outcome
1	37 ^{3/7}	NS	<i>PTPN11</i>	Hydrops fetalis, pleural effusion	Severe respiratory distress	HCM	Chylothorax	Died in the neonatal period
2	28 ^{5/7}	NLS	<i>SHOC2</i>	Polyhydramnios	Severe respiratory distress	HCM	Necrotizing enterocolitis	Died in the neonatal period
3	34 ^{0/7}	NS	<i>RAFI</i>	Polyhydramnios, pyelectasis, talipes equinovarus	Severe respiratory distress	HCM	–	Died at 1.5 mo
4	34 ^{2/7}	NS	<i>SOS1</i>	Polyhydramnios, cystic hygroma, pyelectasis	Mild respiratory distress	HCM	–	Developed West syndrome, severe cognitive delay, visual impairment and cerebral palsy
5	29 ^{0/7}	NS	<i>PTPN11</i>	Polyhydramnios	Severe respiratory distress	–	Chylothorax	Died in the neonatal period
6	40 ^{3/7}	NS	<i>PTPN11</i>	–	Severe respiratory distress	ASD	Multiple skeletal dysplasias	Severe cognitive delay
7	38 ^{3/7}	NS	<i>PTPN11</i>	–	Severe respiratory distress	HCM, valvular pulmonary stenosis	Chylothorax	Severe cognitive delay
8	40 ^{4/7}	NS	<i>PTPN11</i>	–	Mild respiratory distress	HCM	JMML	Died at 6 mo
9	32 ^{0/7}	NS	<i>PTPN11</i>	–	Severe respiratory distress	HCM, PPHN	HIE	Osteofibrous dysplasia of the lower extremities, failure to thrive, ND within normal range
10	40 ^{2/7}	CFCS	<i>BRAF</i>	–	–	ASD	Congenital CMV infection	Generalized developmental delay, visual impairment
11	36 ^{2/7}	NS	<i>RIT1</i>	Hydrops fetalis, pleural effusion	Severe respiratory distress	SVT	HIE, chylothorax, chronic renal failure	Died at 3.5 mo
12	34 ^{0/7}	CS	<i>HRAS</i>	–	Severe respiratory distress	HCM, VSD, chaotic atrial ectopia, tachycardia	Multiple cardiac arrests	Died at 8.5 mo
13	39 ^{2/7}	NS	<i>PTPN11</i>	–	–	HCM, ASD	Myeloproliferative disorder	ADHD, severe autism spectrum disorder
14	36 ^{6/7}	CS	<i>HRAS</i>	Polyhydramnios, adrenal hemorrhage, skeletal dysplasia	Meconium aspiration syndrome	PPHN, SVT, severe hypotension	HIE, multiple skeletal dysplasias	Died at 6 mo
15	38 ^{6/7}	NS	<i>PTPN11</i>	–	Severe respiratory distress	HCM, complete AVSD	Chylothorax	Died in the neonatal period
16	28 ^{6/7}	CS	<i>HRAS</i>	–	Severe respiratory distress	HCM, arrhythmia, hypotension	Chylothorax, chylascites, small bowel volvulus	Died in the neonatal period

Note:—ADHD indicates attention deficit/hyperactivity disorder; ASD, atrial septal defect; AVSD, atrioventricular septal defect; CFCS, cardiofaciocutaneous syndrome; CS, Costello syndrome; GA, gestational age; HCM, hypertrophic cardiomyopathy; HIE, hypoxic-ischemic encephalopathy; JMML, juvenile myelomonocytic leukemia; NLS, Noonan-like syndrome disorder with loose anagen hair; PPHN, persistent pulmonary hypertension of the newborn; SVT, supraventricular tachycardia; VSD, ventricular septal defect; CMV, cytomegalovirus; ND, neurodevelopment.