

Supplementary Table S1. Details of 37 cases of infantile cardiac vascular tumor reported in the literatures

Case	Author	Published Year	Prenatal Diagnosis	Gestational Age at Birth	Body Weight at Birth	Sex	Location	Clinical Presentation	Pericardial Effusion	Associated Cardiac Anomaly	Surgical Procedure	Age at Operation	Pathological Diagnosis	Outcome	Follow-up
1	Ilbawi et al	1982	N	Full term	N/A	F	RA, IAS	Respiratory distress, failure to thrive	Y	ASD	Subtotal excision	6 weeks	Hemangioendothelioma	Alive	No residual tumor at 10 months
2	Riggs et al	1984	Y	38 weeks	3700 g	N/A	RA, IAS	Cardiorespiratory distress, cutaneous hemangiomas	Y	-	Subtotal excision	N/A	Cavernous hemangioma	N/A	N/A
3	Leithiser et al	1986	Y	29 weeks	1280 g	M	RA	Cardiorespiratory distress	Y	-	Subtotal excision	N/A	Hemangioma	Alive	Intermittent 2° AV block at 6 months
4	Burke et al	1990	Y	N/A	N/A	F	RA	Cardiac tamponade	Y	-	Total excision	2 weeks	Hemangioma	Alive	N/A
5	Dresse et al	1991	N	N/A	N/A	M	LA	Heart failure, thrombocytopenia	Y	-	Open biopsy	2 months	Hemangioendothelioma	Alive	Complete resolution at 2 years
6	Chang et al	1992	N	37 weeks	2870 g	M	RA, LA, IAS	Heart failure, thrombocytopenia, Mobitz I 2° AV block	Y	-	Pericardial window plus open biopsy	4 months	Hemangioendothelioma	Alive	Partial regression at 7 months
7	Pierce et al	1992	N	41 weeks	N/A	M	Ventricle	Hydrops, pulmonary hemorrhage	N	-	-	-	Capillary hemangioma ^a	Died	Died of asphyxiating pulmonary hemorrhage at 2 hours
8	Cartagena et al	1993	N	Full term	N/A	M	RA	Respiratory distress	Y	-	Total excision	6 weeks	Hemangioma	N/A	N/A
9	Reyes et al	1994	N	Full term	N/A	M	RV, AV groove	Cardiac tamponade	Y	-	Total excision	6 weeks	Capillary hemangioma	Alive	No recurrence at 1 year
10	Rosenkranz et al	1994	N	36 weeks	3091 g	F	RA	Asymptomatic	Y	-	Total excision	2 months	Low-grade angiosarcoma	Alive	No recurrence at 10 months
11	Holley et al	1995	Y	29 weeks	N/A	N/A	RA	Cardiorespiratory distress	Y	-	Total excision	N/A	Hemangioma	Alive	No recurrence at 3 months
12	Kawakami et al	1995	N	Full term	3590 g	M	RA	Respiratory distress	Y	-	Subtotal excision	2 months	Hemangiopericytoma	Alive	Stationary tumor size at 3 years
13	Eckstein et al	1999	Y	40 weeks	2895 g	F	RA	Asymptomatic	Y	ASD	Total excision	10 days	Capillary-cavernous hemangioma	N/A	N/A
14	Robinson et al	1999	N	Full term	3600 g	M	RV, IVS	Heart murmur, failure to thrive, RVOT obstruction	N	-	Subtotal excision	7 months	Hemangioendothelioma	Alive	Initial progression, spontaneous regression at 10 months
15	Sallee et al	1999	N	N/A	N/A	N/A	RV	Heart murmur, failure to thrive	N	VSD	Partial excision	11 months	Hemangioma	Alive	No residual tumor at 2 years
16	Tseng et al	1999	Y	37 weeks	2455 g	M	RA	N/A	Y	-	Total excision	5 days	Capillary-cavernous hemangioma	Alive	No recurrence at 1 year
17	Thøgersen et al	2001	N	N/A	N/A	M	LV	Ventricular fibrillation	N	-	ICD implantation plus open biopsy	9 weeks	Hemangioendothelioma	Alive	Stationary tumor size at 1 year
18	Gasparovic et al	2002	N	N/A	N/A	F	LV	Heart murmur	N	-	Total excision	7 months	Hemangioendothelioma	N/A	N/A
19	Tongsong et al	2004	Y	37 weeks	2770 g	M	LV	Asymptomatic	Y	-	-	-	N/A ^b	Alive	Complete resolution at 6 months
20	Mackie et al	2005	Y	N/A	N/A	F	RA	Asymptomatic	Y	-	Subtotal excision	1 week	Capillary hemangioma	Alive	Initial progression, complete resolution at 9 months
21	Mackie et al	2005	N	N/A	N/A	F	RA	Cardiac tamponade, cutaneous hemangiomas	Y	-	Pericardiocentesis	-	N/A ^c	Alive	Complete resolution at 15 months
22	Roman et al	2005	Y	34 weeks	N/A	N/A	RA	Fetal atrial ectopic tachycardia	Y	-	Partial excision	3 days	Infantile hemangioendothelioma	Died	Died of sepsis at 6 weeks
23	Sebastian et al	2005	Y	35 weeks	N/A	N/A	RA	Fetal supraventricular tachycardia	Y	PFO, PDA	Subtotal excision	2 days	Capillary-cavernous hemangioma	Alive	6 x 7 mm residual tumor at 2 years
24	Tansel et al	2005	N	38 weeks	3050 g	M	RA	Cardiac tamponade	Y	-	Subtotal excision	2 months	Epitheloid hemangioendothelioma	Alive	No residual tumor at 34 months
25	Laga et al	2006	Y	36 weeks	3000 g	F	RA	Cardiac tamponade	Y	Coronary fistula	Total excision	6 days	Capillary hemangioma	Alive	No recurrence at 1 year
26	Sharma et al	2009	Y	39 weeks	2870 g	M	RA	Asymptomatic	N	-	Total excision	5 days	Capillary hemangioma	Alive	No recurrence at 2 years
27	Sharma et al	2009	Y	34 weeks	2000 g	M	RA	Hydrops, fetal atrial flutter	N	-	Subtotal excision	3 days	Capillary hemangioma	Alive	No residual tumor at 1 year
28	Sharma et al	2009	Y	35 weeks	2840 g	F	RA	Fetal cardiopulmonary compromise	Y	PFO	Subtotal excision	5 days	Capillary hemangioma	Alive	No residual tumor at 18 months
29	Watanabi et al	2010	Y	N/A	N/A	N/A	RA	Cardiac tamponade	Y	-	Pericardial window plus open biopsy	N/A	Hemangioma	N/A	N/A
30	Eichler et al	2011	N	37 weeks	N/A	M	RA	Respiratory distress	N	-	Total excision	1 day	Cavernous hemangioma	Alive	Transient atrial arrhythmia
31	Minsart et al	2011	Y	39 weeks	N/A	N/A	IVS	Cutaneous hemangiomas	N	-	-	-	N/A ^c	Alive	Regression to 3 mm at 6 months
32	Onan et al	2011	N	N/A	N/A	F	RA	Respiratory distress	Y	-	Total excision	5 months	Capillary hemangioma	Alive	No recurrence at 8 months
33	Baird et al	2012	Y	38 weeks	3015 g	M	RA	Asymptomatic	N	-	Total excision	6 days	Capillary hemangioma	N/A	N/A
34	Taylor et al	2012	N	Full term	N/A	M	RA, IAS	Respiratory distress	Y	-	Total excision	5 weeks	Hemangioma	Alive	No recurrence at 6 months
35	Wang et al	2012	N	38 weeks	2000 g	F	RA	Respiratory distress	Y	-	Total excision	7 weeks	Infantile hemangioendothelioma	Alive	No recurrence at 2 years
36	Beaton et al	2013	N	N/A	N/A	M	LA, LV	Cardiac tamponade, failure to thrive	Y	-	Pericardial window & Open biopsy *	2 & 5 months *	Kaposiform hemangioendothelioma	Alive	Stationary tumor size at 11 months
37	Lin et al	2014	Y	34 weeks	1875 g	M	RA	Respiratory distress	Y	PFO, PDA	Total excision	2 days	Capillary hemangioma	Alive	No recurrence at 1 month

N/A, not available; F, female; M, male; RA, right atrium; RV, right ventricle; LV, left ventricle; IAS, interatrial septum; AV groove, atrioventricular groove; IVS, interventricular septum; RVOT, right ventricular outflow tract; ASD, atrial septal defect; VSD, ventricular septal defect; PFO, patent foramen ovale; PDA, patent ductus arteriosus; ICD, implantable cardioverter defibrillator

The diagnosis of hemangioma is ^a established by autopsy, ^b suspected by echocardiography and magnetic resonance imaging (MRI), ^c suspected by associated cutaneous hemangiomas.

* Two separate operations.