

Supplementary Table 1A: Synopsis of patients with CM-related heart transplantation and systemic disease

Patient	Year of birth	Type of CM	Age at transplantation (d)	Death after HTX (d)	Underlying disease	Diagnostic tool*	Gene	Mutation
1	1983	DCM	9475	9488	Peters-Plus-syndrome	Clinical examination		
2	1989	DCM	4782	8587	Marfan-syndrome	Clinical examination		
3	1990	RCM	7592	-	Anthracycline chemotherapy	Patient history		
4	1991	HCM	5218	8878	Charcot-Marie-Tooth-Disease	Clinical examination		
5	1992	DCM	5130	-	Adriamycin chemotherapy	Patient history		
6	1998	DCM	6524	-	limb-girdle muscular dystrophy	Whole exome sequencing	<i>FKRP</i> <i>FKRP</i>	c.826C>A, c.1210C>T

7	2004	DCM	3885	-	Mitochondrial disorder	Whole exome sequencing	<i>GTPBP3</i> <i>GTPBP3</i>	c.709G>T c.583C>T
8	2007	DCM	4399	-	Daunorubicin chemotherapy	Patient history		
9	2008	RCM	3079	-	BAG-3-Mutation	Whole exome sequencing	<i>BAG 3</i>	c.626C>T
10	2010	HOCM	250	-	Noonan syndrome with multiple lentigenes	Gene panel testing	<i>PTPN11</i>	c.31528C>G
11	2013	HCM	895	-	Mitochondrial disorder	Whole exome sequencing	<i>GTPBP3</i>	c.506C>T c1178T>C
12	2013	DCM	1865	-	Mitochondrial disorder	Muscle Biopsy		
13	2013	DCM	329	-	Mitochondrial disorder	Gene panel testing	<i>TAZ</i>	c.222 C>G
14	2016	DCM	109	311	Mitochondrial disorder	Muscle Biopsy		

15	2017	DCM	182		Mitochondrial disorder	Gene panel testing	<i>TAZ</i>	c.280 C>G
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* = diagnostic tool finally solving the case

Supplementary Table 1B: Underlying diseases leading to heart transplantation: Cardiac-specific diseases

Patient	Year of Birth	Type of CM	Age at transplanta tion in days	Death after HTX	Underlying disease	Diagnostic tool*	Gene	Mutation
1	1996	DCM	5598	-	MYH7 Mutation	Gene panel testing	<i>MYH7</i>	c.5401G>A
2	2004	DCM	3827	-	MYBPC3 Mutation	Gene panel testing	<i>MYBPC3</i>	c.565G>A c.706A>G
3	2004	ARVC	5197	-	PKP2 Mutation	Gene panel testing	<i>PKP-2</i>	c.2327C>T
4	2004	DCM	793	-	Troponin T2 Mutation	Gene panel testing	<i>TNNT2</i>	c.286 G>A
5	2006	DCM	1463	-	Long QT- syndrome	Clinical examination		
6	2014	NCM	1384	-	TPM1 Mutation	Gene panel	<i>TPM 1</i>	c.272G>T

						testing		
7	2018	DCM	331	-	TPM1 Mutation	Gene panel testing	<i>TPM1</i>	c.688G>A

* = diagnostic tool finally solving the case

Supplementary Table 1C: Underlying diseases leading to heart transplantation: Myocarditis.

Patient	Year of birth	Type of CM	Age at transplantation (d)	Death after HTX	Diagnostic tool	Pathogen
1	1980	DCM	4941	-	Cardiac biopsy	<i>Parvo B19</i>
2	1985	DCM	5410	-	Cardiac biopsy	<i>Parvo B19</i>
3	1993	DCM	514	-	Cardiac biopsy	<i>Coxsackie Typ B</i>
4	1995	DCM	3144	-	Explanted Heart	<i>Parvo B19</i>
5	1999	DCM	154	-	Maternal blood sampling	<i>Parvo B19</i>
6	2000	DCM	590	-	Cardiac biopsy	<i>Parvo B19</i>
7	2002	DCM	559	-	Explanted Heart	<i>HHV 6</i>
8	2007	NCM	1321	-	Cardiac biopsy	<i>Parvo B19</i>
9	2007	DCM	4280	-	Cardiac biopsy	<i>HHV 7</i>

10	2011	DCM	213	-	Cardiac biopsy	<i>HHV 6</i>
11	2012	DCM	430	-	Cardiac biopsy	<i>HHV 6</i>
12	2013	DCM	441	-	Cardiac biopsy	<i>Coxsackie type B</i>
13	2013	DCM	195	-	Cardiac biopsy	<i>Coxsackie type B</i>
14	2015	DCM	1336	-	Cardiac biopsy	<i>HHV 6</i>
15	2017	DCM	275	-	Maternal blood sampling	<i>Coxsackie type B</i>

Potential Myocarditis

16	1993	DCM	6087	-	Patients History	
17	1995	DCM	753	-	Cardiac biopsy	
18	2004	DCM	4706	-	Cardiac biopsy	
19	2008	DCM	5762	-	Cardiac biopsy	