

Table 1. Summary of retroviral vector-treated MPS VII dogs. Eleven dogs were analyzed with echocardiography for this study. The animal number, name, gender as male (M) or female (F), date of birth, date of death if it has occurred, age of death, and serum GUSB activity are shown. Animals are organized from the longest surviving to the youngest surviving in years. In general, the animals that received echocardiograms at a particular age include all surviving animals that reached that age.

Number	Treatment	Total Number	Number of Females	Number of Male	Age of analysis (Years)	Serum GUSB (U/ml)	Percent Normal Serum GUSB
Normal	None	18	9 (50%)	9 (50%)	0.5	265	100.0%
Normal	None	11	6 (55%)	5 (45%)	1.0	265	100.0%
Normal	None	7	6 (88%)	1 (12%)	3.7	265	100.0%
Normal	None	8	8 (100%)	0 (0%)	7.6	265	100.0%
MPS VII	None	16	7 (44%)	9 (56%)	0.5	<1	<0.4%
MPS VII	None	13	7 (54%)	6 (46%)	1.0	<1	<0.4%
MPS VII	None	5	1 (20%)	4 (80%)	1.9	<1	<0.4%

MPS VII dogs that were treated with neonatal gene therapy with a gamma RV

Number	Treatment	Gender	Date of Birth	Date of Death	Age of Death (Years)	Serum GUSB (U/ml)	Percent Normal Serum GUSB	Clinical Symptoms at Death
M1287	HGF/RV	M	12/5/2000	12/6/2011	11.0	16935	6390.6%	Poor gait
M1332	RV	F	2/25/2001	12/9/2010	9.8	108	40.8%	Poor gait
M1337	RV	F	2/25/2001	6/15/2009	8.3	278	104.8%	Non-healing cellulitis
M1328	RV	M	2/24/2001	10/31/2008	7.7	482	181.8%	Poor gait
M2165	RV	M	10/17/2005	12/6/2011	6.1	4368	1648.3%	Poor gait
M1653	RV	F	12/8/2002	3/30/2007	4.3	88	33.1%	Collection of tissues
M2421	RV	M	9/17/2008	Still alive	>4.0	895	337.9%	Still alive
M2065	RV	M	3/23/2005	3/29/2007	2.0	2090	788.5%	Collection of tissues
M2420	RV	M	9/17/2008	4/22/2009	0.6	295	111.3%	Collection of tissues
M2428	RV	M	9/28/2008	4/23/2009	0.6	762	287.6%	Collection of tissues
M2427	RV	M	9/28/2008	4/22/2009	0.6	1247	470.4%	Collection of tissues
Average						2504	945.0%	
Standard Deviation						4946	1866.3%	
N						11	11	