

**Supplemental Table 1: Clinical data and virology results for each Theiler's disease case.** Chemistry values in bold were outside the reference interval.

Case	a1	b1	c1	d1	d2	e1	e2	e3	e4	f1
Age (yrs)	12	12	7	20		5	16	8	7	7
Breed	Arabian	AQH	AQH	Welsh Pony	Welsh Pony	SB	SB	SB	SB	Arabian
Gender	Mare	Gelding	Gelding	Gelding	Gelding	Mare	Mare	Mare	Mare	Gelding
Outcome	Euthanized	Euthanized	Died	Euthanized	Euthanized	Euthanized	Euthanized	Euthanized	Died	Euthanized
Date of presentation	Sept 21 <sup>st</sup>	May 6 <sup>th</sup>	July 30 <sup>th</sup>	May 15 <sup>th</sup>	June 23 <sup>rd</sup>	Sept 29 <sup>th</sup>	Sept 30 <sup>th</sup>	Nov 19 <sup>th</sup>	Nov 28 <sup>th</sup>	Oct 22 <sup>nd</sup>
State of residence	MO	KS	MO	NC		NJ			WA	
<b>Serum qRT PCR</b>										
EqPV-H	+	NA	NA	+	+	NA	NA	NA	NA	NA
NPHV	-	NA	NA	-	-	NA	NA	NA	NA	NA
TDAV	-	NA	NA	-	-	NA	NA	NA	NA	NA
EPgV	+	NA	NA	-	-	NA	NA	NA	NA	NA
<b>Liver qRT PCR</b>										
EqPV-H	+	+	+	+	NA	+	+	+	+	-
NPHV	-	-	-	-	NA	-	-	-	-	-
TDAV	-	-	-	-	NA	-	-	-	-	-
EPgV	-	+	-	-	NA	-	-	-	-	-
<b>Liver variables</b>										
GGT (U/L)	<b>117</b>	<b>108</b>	<b>137</b>	<b>185</b>	<b>144</b>		<b>114</b>	<b>100</b>	<b>97</b>	<b>160</b>
AST (U/L)	<b>1595</b>	<b>2275</b>	<b>3953</b>	<b>6177</b>		<b>3575</b>	<b>4300</b>	<b>1239</b>	<b>1744</b>	<b>&gt; linear range</b>
SDH (U/L)		<b>102</b>		3.3						
Total Bilirubin (mg/dl)	<b>21.7</b>	<b>21</b>	<b>20.1</b>	<b>14.9</b>	<b>17.6</b>	<b>20.0</b>	<b>8.7</b>			<b>20.4</b>
Direct Bilirubin (mg/dl)	<b>7.9</b>	<b>1.7</b>	<b>2.3</b>							
Bile acids (µmol/L)	<b>176</b>	<b>75.6</b>					<b>90.4</b>			
Ammonia (µmol/L)		<b>70</b>		<b>959</b>	<b>high</b>	<b>479</b>	<b>326</b>			<b>&gt;500</b>
Glucose (mg/dl)	<b>74</b>	<b>67</b>	<b>10</b>	<b>45</b>		<b>33</b>				<b>33</b>
Hematocrit (%)	52	50	<b>58</b>	<b>55</b>		<b>68</b>	49			<b>57</b>