

**Table 1: Demographics of all the patients enrolled in the clinical trial**

| <b>Patient</b> | <b>Breed</b>       | <b>Age</b> | <b>Sex</b>    | <b>Weight</b> | <b>Location</b>              | <b>Suspected Metastasis at the time of CRAd Administration</b> | <b>Surgery</b>                    | <b>Suspected Metastasis at the Terminal Stage</b>            | <b>Cause Of Death</b> |
|----------------|--------------------|------------|---------------|---------------|------------------------------|----------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------|-----------------------|
| <b>1</b>       | <b>Great Dane</b>  | <b>8</b>   | <b>Female</b> | <b>52.1</b>   | <b>Left Distal Ulna</b>      | <b>Not Diagnosed</b>                                           | <b>Partial Distal Ulnectomy</b>   | <b>Keratin Cyst Right Lumbar Area</b>                        | <b>Euthanasia</b>     |
| <b>2</b>       | <b>Mixed Breed</b> | <b>8</b>   | <b>Male</b>   | <b>45.17</b>  | <b>Left Proximal Humerus</b> | <b>Not Diagnosed</b>                                           | <b>Left Forelimb Amputation</b>   | <b>None</b>                                                  | <b>Euthanasia</b>     |
| <b>3</b>       | <b>Great Dane</b>  | <b>7</b>   | <b>Female</b> | <b>48.8</b>   | <b>Left Proximal Humerus</b> | <b>Not Diagnosed</b>                                           | <b>Left Forelimb Amputation</b>   | <b>Unknown</b>                                               | <b>Unknown</b>        |
| <b>4</b>       | <b>Rottweiler</b>  | <b>8</b>   | <b>Female</b> | <b>44</b>     | <b>Left Distal Tibia</b>     | <b>Not Diagnosed</b>                                           | <b>Left Hindleg Amputation</b>    | <b>Unknown</b>                                               | <b>Unknown</b>        |
| <b>5</b>       | <b>Boxer</b>       | <b>13</b>  | <b>Male</b>   | <b>31.75</b>  | <b>Right Distal Femur</b>    | <b>Not Diagnosed</b>                                           | <b>Right Hind Limb Amputation</b> | <b>Caudal Abdominal Mass And Pulmonary Nodule Identified</b> | <b>Euthanasia</b>     |
| <b>6</b>       | <b>Greyhound</b>   | <b>7</b>   | <b>Male</b>   | <b>27.4</b>   | <b>Right Distal Radius</b>   | <b>Not Diagnosed</b>                                           | <b>Right Hind Limb Amputation</b> | <b>Skin Nodules</b>                                          | <b>Euthanasia</b>     |
| <b>7</b>       | <b>Rottweiler</b>  | <b>8</b>   | <b>Female</b> | <b>31.48</b>  | <b>Right Distal Radius</b>   | <b>Suspected Pulmonary Nodule</b>                              | <b>Right Hind Limb Amputation</b> | <b>Pulmonary Metastasis and Possible Rib Metastasis</b>      | <b>Euthanasia</b>     |

|           |                            |           |               |              |                              |                                                             |                                             |                                                     |                           |
|-----------|----------------------------|-----------|---------------|--------------|------------------------------|-------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------|---------------------------|
| <b>8</b>  | <b>Shar-Pei</b>            | <b>9</b>  | <b>Male</b>   | <b>17.78</b> | <b>Left Front Limb</b>       | <b>Suspected Pulmonary Metastasis and Right Ear Sarcoma</b> | <b>Left Forelimb Amputation</b>             | <b>Pulmonary Metastasis</b>                         | <b>Euthanasia</b>         |
| <b>9</b>  | <b>Greyhound</b>           | <b>9</b>  | <b>Male</b>   | <b>28.1</b>  | <b>Right Proximal Tibia</b>  | <b>Not Diagnosed</b>                                        | <b>Mid Femoral Amputation of Right Hind</b> | <b>Suspect Pulmonary Metastasis</b>                 | <b>Euthanasia</b>         |
| <b>10</b> | <b>Australian Shephard</b> | <b>13</b> | <b>Female</b> | <b>19</b>    | <b>Left Proximal Humerus</b> | <b>Suspected Metastasis to Regional Lymph Nodes</b>         | <b>Left Forelimb Amputation</b>             | <b>Suspected Metastasis to Regional Lymph Nodes</b> | <b>Suspected Embolism</b> |

Patient information was collected from the electronic medical record at College of Veterinary Medicine at Auburn University. This information was recorded throughout the clinical trial of the patients. Patient 3 and 4 did not return back to College of Veterinary Medicine at Auburn University for terminal stage care, and therefore, there is limited or no information regarding their terminal stage diagnosis and condition.

Table 2: Quantitation of OC-CAVE1 CRAd genomes in clinical patient's urine using qPCR.

| <b>Hours Post Virus-<br/>Injection</b> | <b>Patient 1</b> | <b>Patient 2</b> | <b>Patient 3</b> | <b>Patient 4</b> | <b>Patient 5</b> | <b>Patient 6</b> | <b>Patient 7</b> | <b>Patient 8</b> | <b>Patient 9</b> | <b>Patient 10</b> |
|----------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| <b>12</b>                              | <b>4.1</b>       | <b>0.53</b>      | <b>NS</b>        | <b>5.52</b>      | <b>0</b>         | <b>0</b>         | <b>0.50</b>      | <b>1.29</b>      | <b>NS</b>        | <b>0</b>          |
| <b>24</b>                              | <b>7.4</b>       | <b>0.51</b>      | <b>0</b>         | <b>0.84</b>      | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0.55</b>      | <b>0</b>         | <b>0</b>          |
| <b>36</b>                              | <b>2.8</b>       | <b>0.98</b>      | <b>NS</b>        | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>2.47</b>      | <b>0</b>         | <b>0</b>          |
| <b>48</b>                              | <b>3.0</b>       | <b>0.91</b>      | <b>0</b>         | <b>2.1</b>       | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>          |
| <b>60</b>                              | <b>3.6</b>       | <b>0.35</b>      | <b>NS</b>        | <b>0.56</b>      | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>          |
| <b>72</b>                              | <b>9.4</b>       | <b>0</b>         | <b>0</b>         | <b>0.52</b>      | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>4.09</b>      | <b>0</b>         | <b>0</b>          |
| <b>84</b>                              | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0.83</b>      | <b>0</b>         | <b>NS</b>        | <b>0</b>          |
| <b>96</b>                              | <b>5</b>         | <b>0.23</b>      | <b>0.029</b>     | <b>0.49</b>      | <b>0</b>         | <b>NS</b>        | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>          |
| <b>108</b>                             | <b>8.6</b>       | <b>1.32</b>      | <b>NS</b>        | <b>1.47</b>      | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>          |
| <b>120</b>                             | <b>NS</b>        | <b>0.71</b>      | <b>0</b>         | <b>0.75</b>      | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0.70</b>      | <b>0</b>         | <b>NS</b>         |
| <b>132</b>                             | <b>0</b>         | <b>0.98</b>      | <b>0</b>         | <b>0.32</b>      | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0.87</b>      | <b>0</b>         | <b>0</b>          |
| <b>144</b>                             | <b>0</b>         | <b>1.03</b>      | <b>0.005</b>     | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>          |

Values are reported as viral copies/ul of sample. A standard curve of known amounts of OC-CAVE1 CRAd template DNA ( $10^8$ ,  $10^6$ ,  $10^4$ , and  $10^2$  copies) was used for the quantification reference. NS - no sample collected.

**Table 3: Quantitation of OC-CAVE1 CRAd genomes in clinical patient's feces using qPCR.**

| <b>Hours Post virus-<br/>Injection</b> | <b>Patient 1</b> | <b>Patient 2</b> | <b>Patient 3</b> | <b>Patient 4</b> | <b>Patient 5</b> | <b>Patient 6</b> | <b>Patient 7</b> | <b>Patient 8</b> | <b>Patient 9</b> | <b>Patient 10</b> |
|----------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| <b>12</b>                              | <b>19.06</b>     | <b>0</b>         | <b>1.99</b>      | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>0</b>          |
| <b>24</b>                              | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>0</b>         | <b>NS</b>        | <b>3.44</b>      | <b>0</b>          |
| <b>36</b>                              | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>0</b>         | <b>7.58</b>      | <b>0</b>         | <b>0</b>          |
| <b>48</b>                              | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>0</b>         | <b>0</b>          |
| <b>60</b>                              | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>NS</b>         |
| <b>72</b>                              | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>NS</b>         |
| <b>84</b>                              | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>NS</b>        | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0.312</b>      |
| <b>96</b>                              | <b>0</b>         | <b>0</b>         | <b>3.84</b>      | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>0</b>         | <b>4</b>          |
| <b>108</b>                             | <b>0</b>         | <b>12.26</b>     | <b>0</b>         | <b>0.39</b>      | <b>0</b>         | <b>NS</b>        | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>NS</b>         |
| <b>120</b>                             | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>NS</b>         |
| <b>132</b>                             | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>2.6</b>       | <b>0</b>         | <b>NS</b>        | <b>0</b>         | <b>0</b>         | <b>NS</b>        | <b>11.1</b>       |
| <b>144</b>                             | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0.37</b>      | <b>0</b>         | <b>NS</b>        | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>NS</b>         |

Values are reported as viral copies/ug of sample. A standard curve of known amount of OC-CAVE1 CRAd template DNA ( $10^8$ ,  $10^6$ ,  $10^4$ , and  $10^2$  copies) was used for the quantification reference. NS - no sample collected.

**Table 4: Quantitation of OC-CAVE1 CRAd genomes in clinical patient's blood using qPCR.**

| <b>Hours Post virus-<br/>Injection</b> | <b>Patient 1</b> | <b>Patient 2</b> | <b>Patient 3</b> | <b>Patient 4</b> | <b>Patient 5</b> | <b>Patient 6</b> | <b>Patient 7</b> | <b>Patient 8</b> | <b>Patient 9</b> | <b>Patient 10</b> |
|----------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| <b>0</b>                               | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>         | <b>0</b>          |
| <b>12</b>                              | <b>53800000</b>  | <b>5140000</b>   | <b>2820000</b>   | <b>14520000</b>  | <b>426000</b>    | <b>14160000</b>  | <b>1368000</b>   | <b>2940000</b>   | <b>850000</b>    | <b>1484</b>       |
| <b>24</b>                              | <b>1880</b>      | <b>10620000</b>  | <b>458000</b>    | <b>3060000</b>   | <b>199600</b>    | <b>6560000</b>   | <b>206000</b>    | <b>1042000</b>   | <b>46200</b>     | <b>412</b>        |
| <b>36</b>                              | <b>690</b>       | <b>4160</b>      | <b>60200</b>     | <b>464000</b>    | <b>288000</b>    | <b>12860000</b>  | <b>73600</b>     | <b>706000</b>    | <b>107600</b>    | <b>642</b>        |
| <b>48</b>                              | <b>752</b>       | <b>3220</b>      | <b>874</b>       | <b>71200</b>     | <b>54800</b>     | <b>85000000</b>  | <b>46800</b>     | <b>240000</b>    | <b>9340</b>      | <b>137</b>        |
| <b>60</b>                              | <b>630</b>       | <b>5060000</b>   | <b>682</b>       | <b>86600</b>     | <b>33400</b>     | <b>96000</b>     | <b>32400</b>     | <b>86200</b>     | <b>5540</b>      | <b>140</b>        |
| <b>72</b>                              | <b>480</b>       | <b>656</b>       | <b>470</b>       | <b>43400</b>     | <b>19480</b>     | <b>42200</b>     | <b>18220</b>     | <b>44400</b>     | <b>6920</b>      | <b>23</b>         |
| <b>84</b>                              | <b>262</b>       | <b>366</b>       | <b>306</b>       | <b>18320</b>     | <b>6440</b>      | <b>2600</b>      | <b>7680</b>      | <b>51400</b>     | <b>2680</b>      | <b>8</b>          |
| <b>96</b>                              | <b>446</b>       | <b>444</b>       | <b>133</b>       | <b>7720</b>      | <b>4800</b>      | <b>34600</b>     | <b>5880</b>      | <b>34600</b>     | <b>2960</b>      | <b>1</b>          |
| <b>108</b>                             | <b>870</b>       | <b>442</b>       | <b>84</b>        | <b>8140</b>      | <b>1108</b>      | <b>4080</b>      | <b>4520</b>      | <b>26600</b>     | <b>1416</b>      | <b>12</b>         |
| <b>120</b>                             | <b>138</b>       | <b>97</b>        | <b>53</b>        | <b>3460</b>      | <b>964</b>       | <b>6540</b>      | <b>942</b>       | <b>10560</b>     | <b>778</b>       | <b>1</b>          |
| <b>132</b>                             | <b>200</b>       | <b>63</b>        | <b>22</b>        | <b>1340</b>      | <b>5200</b>      | <b>1576</b>      | <b>308</b>       | <b>8280</b>      | <b>366</b>       | <b>0</b>          |
| <b>144</b>                             | <b>38</b>        | <b>15</b>        | <b>0</b>         | <b>1048</b>      | <b>1862</b>      | <b>612</b>       | <b>80.2</b>      | <b>5040</b>      | <b>252</b>       | <b>0</b>          |

|                |          |          |          |          |          |          |          |          |          |          |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>4 weeks</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|

Values are reported as viral copies/ul of sample on a logarithmic scale. A standard curve of known amount of OC-CAVE1 CRAd template DNA ( $10^8$ ,  $10^6$ ,  $10^4$ , and  $10^2$  copies) was used for the quantification reference.