

## Developmental Decisions

Weekly Report 2/12/19 -2/17/19

Throughout the week, many decisions were made as to what the finale product would become. No longer was it to be a re-development of an outdated diagnostic test. It is now an awareness program for a pre-operative planning. While it may seem as if re-developing a diagnostic test would be more valuable, the awareness program would create actual impact. The program will revolve around the use of CT scanning and three-dimensional printing to plan for the surgical procedures that would fix cases of angular limb deformities. Prior planning involved the use of X-rays, a two-dimensional reading for a three-dimensional issue, and post-operative care required metal caging surrounding the limb attaching to the bone through the use of pins. This post-operative recovery held a great risk for infection if the owners were not careful enough during recovery. However, with the use of new pre-operative planning, doctors are practically able to plan/perform the surgery exactly with the three-dimensional model. The post-operative care is able to become one similar to any other strenuous orthopedic procedure as doctors are now able to be more exact and use plating during the procedure. This eliminates the necessity of caging the limb and takes away multiple points for infection to begin, this leaves the owner with only the sutures to worry about for infection.

All of the above mentioned points are exactly why the awareness program is so important, it gives the animal the best chance for a full recovery.