



### **Three Dimensional (3 D) Medical Animation – The Booster Dose for Clinical Trials**

Pharma, Healthcare and Medical worlds are expanding and this expansion is multi directional. As the development is moving towards novel drug delivery system and customized medicine and therapies, patients are more than eager to know how the medicine works and how the body responds to the drug. Every drug goes through a series of test, specifically conducted under medical guidance, called clinical trials. The first objective of any clinical trials is validating whether the drug is safe. Once this is ensured, then the trial moves to next phase with more number of patients and subjects. [Two dimensional \(2D\) and three dimensional \(3D\) animations](#) are speeding up the demonstration, understanding and knowledge sharing in clinical trials and seem to go a long way. The e-learning and animation has been found more effective in sharing the information in a controlled and consistent manner.

Since the entire process of clinical trials has plenty of documentation which involves volunteers, the investigators team, subjects, doctors etc, the 2D and 3D animation has more profound effect for training and demonstrations. Another method to ease the process is online medical training e learning. Holding a deep and rich spring of information, these e-learning modules can flow the information with utmost ease to the target audience.

Good that you reached here! We have some more reasons to convince you that why medical animation software and 2D and 3D animation in clinical trials CT have such a profound role.

#### **1. Informed Consent Becomes Transparent and Smooth**

In the clinical trials, which are conducted for safety and compliance requirements, healthy subjects as well as patients are told everything about how the drug will be acting inside the body and the impact caused on the health and medical condition of the subjects. When patients are informed, the objective is to tell the facts and take their consent to start the trial; hence the process is called “Informed Consent”. Informed consent has been evolved as patients expect targeted information and insist on knowing the drug, technology and trial objectives.

Thus, whereas paper consent forms can only be read, digital multimedia have the potential to enhance understanding by utilizing all of these approaches (i.e., read, hear, watch, and then give informed consent). Computer animation would explain the product and its method of action to patients. Another help in using medical devices is to ensure the technology was presented to each patient in a consistent manner using healthcare animation videos.

Explaining the drug and body interactions is basically responsibility of the doctor. But using human body 3d animation is a more consistent and effective approach for informing the patient. This method offers the best way to address questions or concerns patients may have. The patient actually looks into the mirror and feels what is going to actually happen inside his body. Visualization has more recall value than reading or listening. From contents of medicine to safety learning, companies use computer animation to explain the product and its method of action to patients, rather than relying only on doctors to explain the complex science underlying the treatment.

Remembering contents of medicine in patients receiving the 3D animations has significantly higher scores than patients receiving documentation or verbal information. 3D animations are more effective than real-time drawings for patient education in terms of knowledge recall. Medical animations are getting recognition as a powerful tool for assisting in the information exchange process.

## **2. Dancing Data**

If you need to take in a lot of information within a short space of time, you cannot afford to delve into complicated tables or a series of pie charts or graphs. The comprehensive clinical trial results, complex data or statistical values are difficult to explain in short time. The gist of loads of information cannot be mugged up within a short space of time. Data intensive graphics such as pie charts or bar graphs might have the goal of making information clearer at a single glance but they often come in the flow as barriers. Same is true for figures, text, Power Point, Excel, charts and graphs. Medical animation software can certainly be helpful in creating the magic of infographics and medical animation library can be used multiple times as a reference.

## **3. Learner's Delight**

The Clinical Research Organizations (CROs) bring a molecule from the lab to the clinics by conducting clinical research and validating the safety and efficacy provided the results are promising. The day-to-day operational activities of a Clinical Research Organization (CRO) a complex web of interrelated tasks. Elearning and online medical training are emerging as mentors and trainers. Fictional characters, moving objects, mesmerizing story boards and clear messages stay make learning more focused and the best part is that they can be played multiple times!! Elearning for healthcare professionals is most economic and easiest way to make the staff productive with little time spent on training. The team working at site including investigators, executives, physicians, and biostatistician is becoming more cohesive and streamlined as class room has come to the students in the form elearning for healthcare professionals.

We at [Dorado E-learning](#) take pride in the fact that we are working for making this world a better place and we are partners in imparting information and critical facts about medical elearning. Whether it is representing data, numbers, medical terminology, drug safety and health trainings; we contribute in making large and complex processes simpler to understand so that millions of people can be benefitted through the use of medical science.