Magnetic Resonance Imaging is a medical
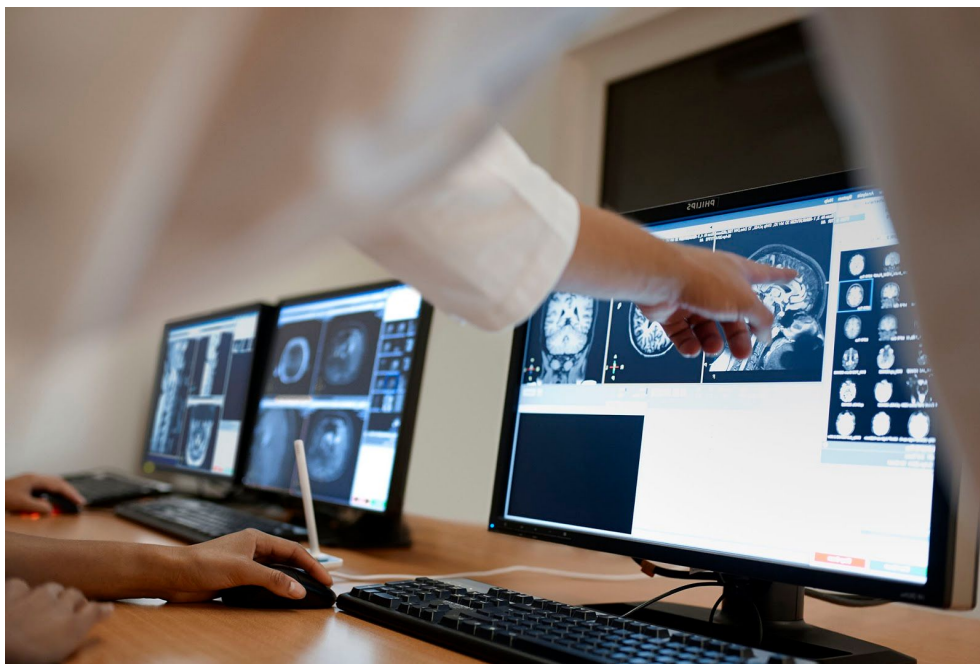
imaging technique used in radiology to form pictures of the anatomy and the physiological processes of the body in both health and disease. Analysis of these diverse types of images requires sophisticated computerized quantification and visualization tools. These sophisticated tasks require amazing visualization tools and Liquid Galaxy always tops the list for this purpose as after data acquisition, a powerful computer reconstructs the images which can then be displayed in a monitor for a physician to interpret.

"A doctor's main priority is that the patient is always well treated. Doctors receive a great amount of help from the technology, such as computers."

Here is a sample image of use of computers for Visualization of MRI and other scans.
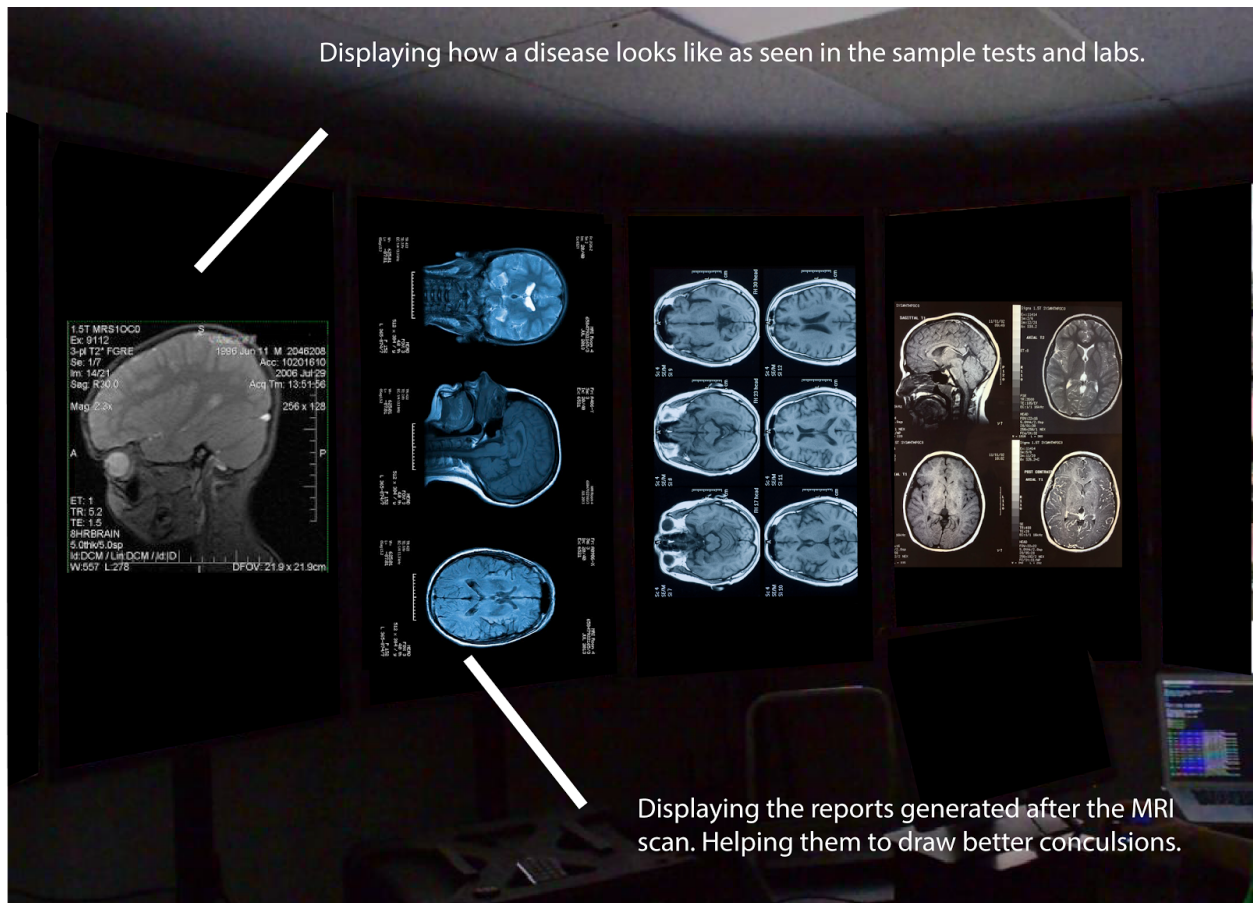
As we can see in the image above the doctors and physicians use multiple computers and have to draw conclusions on the basis of observation on that small 24 inch display. Using Liquid Galaxy the report can be expressed with more clarity and hence letting the doctor draw better conclusion. In the image above there are three images of a patient's internal structure of Brain. The images appear to be small and by using the Liquid Galaxy this can be done in a more better manner as we can enforce each image on a single display thus improving the visibility and clarity. It can also be used in keeping patient data accurate and up-to-date is essential if an effective treatment plan is to be followed. The computer equipment used in medical labs can keep track of patient data and make sure that all treatment options are available.

Patients admitted to a hospital are connected to machines that use vital statistics monitoring software to record blood pressure, pulse, and oxygen levels. These computers monitor a patient and are programmed to notify the staff in the event any of these statistics move outside of acceptable ranges. Now Liquid Galaxy can be used to improve the monitoring system as one screen can be dedicated just for the Blood Pressure where the whole screen shows two different graphs for High & Low Blood Pressure. Same goes with the pulse and other essential information.

Now I'll talk more about some really useful use cases :

1) Using Liquid Galaxy to draw up conclusions: With the use of Liquid Galaxy a doctor can draw better conclusions by comparing the images side by side with the images of the predicted output. Here is an illustration to help you understand better.

Displaying how a disease looks like as seen in the sample tests and labs.

Displaying the reports generated after the MRI scan. Helping them to draw better conculsions.

2) Using Liquid Galaxy to chat in real-time so important information is relayed when needed: Instead of taking messages or leaving notes, they can talk to doctors using Liquid Galaxy. This will reduce the time taking for

processing the reports. The communication will be faster and in case of any problem the doctors can consult their colleagues immediately.

Here is an illustration of indicated use :

Displaying how a disease looks like as seen in the sample and labs.

SCREEN DEDICATED FOR REALTIME COMMUNICATION AND CONSULTING OTHER DOCTORS.

Displaying the reports generated after the MRI scan. Helping them to draw better conculsions.