

## **Newsletter**

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### **RECENT UPDATES IN MEDICAL INDUSTRY**

With each passing day, the incrementing complications in the organisms have compelled humans to hunt for new advanced possibilities that help quick and accurate examination, understanding, and elimination of disorders and ailments. Growth in the medical sphere might be an outcome of necessity but with the passing years, this has become a positive addiction for man.

#### **INTRODUCTION**

Although majorly advanced and sophisticated technology is available in the medical domain, further updates and preferments are being speedily made by man. With the introduction and usage of nanotechnology along with the pre-existing cellular as well as molecular science, it is likely that much more convincing, accurate and rapid techniques to diagnose will be conceived in the upcoming future.

#### **PREDICTION OF RESPONSE OF THERAPY FOR OVARIAN CANCER USING CT SCAN**

The response of the therapy used to treat ovarian cancer can now be predicted using an advanced combination of a CT scanner as well as X-ray dyes that measure the flow of the blood and the tumor volume related to the cancerous ovaries.

Developed in Canada and also named as CT perfusion, this technology ensures easy implementation onto the already existing CT scanners with minimum training. The flow of blood decreases for the patients who survive for long durations without the appearance of symptoms, whereas the blood flow was seen incrementing for the sufferers who witnessed recurring of symptoms in a time span of six months. Hence the treatment by this prediction can be enhanced imparting sooner results.

#### **Pain-Free Diabetic Care Without The Usage Of Needles**

Diabetic care indulges the constant requirement to pull out blood from the sufferer's body to test glucose level which is indeed a painful procedure. In today's advanced world pumps of insulin, as well as constant glucose monitors are the well-received options that automate the complications of management of blood sugar level but these do not eliminate the pains of piercing the skin. Philadelphia based Echo Therapeutics has come up with an advanced technology that replaces the skin pokes with patches. The blood analytes are painlessly read with the help of an innovative transdermal biosensor without pulling out any blood. The process indulges the usage of an electronic device that looks like a toothbrush that works to

remove the topmost skin cells layering that gets the blood chemistry of the patient well within the range of the signal of a biosensor. The readings are collected per minute and are sent wirelessly imparted to a monitor. These devices even trigger extremely audible alarms to indicate as and when the level increases to pass the optimal range of the victim.

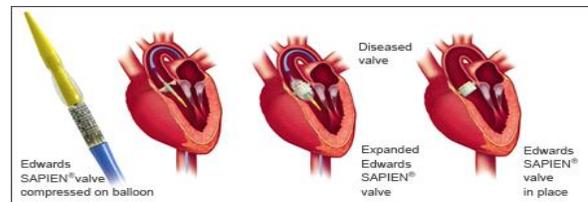
### Check-Ups Via A Mobile Robot

The newly developed medical robots are way ahead in the treatment of patients in crowded hospitals. These robots have been combining developed by iRobot Corp as well as Intouch Health to be used for managing the patients without any direct intervention by humans. This electronic robot is one of the first to achieve FDA clearance to be used in hospitals. It is a uniquely designed mobile cart which possesses a video screen on both its sides and accommodates the medical monitoring equipment that is skillfully programmed to operate through the hospital halls.



### Life-Saving Aortic Valve

An advanced alternative, an aortic valve, to an open-heart operation known as Sapien Transcatheter has been devised for the patients who require a new valve for proper functioning but cannot bear the rigors of a major surgery. The Sapien is available for quite some time in Europe but the use is only finding a place in the renowned heart centers of the U.S. It is being applied and tested on the frailest patients so far. The insertion of the Sapien Valve is made through the femoral artery via the rib cage by the help of a catheter. The valve is crafted using a bovine tissue that is attached to a stent made out of stainless steel, that is expanded by the inflation of a small sized balloon once it is correctly accommodated in the valve space. This invention is for sure to have a cost cutting in the treatment of the patient.



### CONCLUSION

Every invention made in the medical sphere is untangling complications and taking progressive steps towards a healthy and hearty world of billions. The man is that successful creature that has the capability of unleashing advanced and bright possibilities to establish the world strong enough to fight all the odds.

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