



HEART MONITORING WATCH

A heart attack patient can be saved if the symptoms are recognized earlier, thus getting an ambulance sooner. A new health monitor, Oxitone can accomplish this. Oxitone is worn on the wrist and monitors the ups and downs in a patient's heart rate, as well as their blood's oxygen levels, on a minute-by-minute basis. It contains two optical sensors that alert the wearer to a rapidly-elevating or abnormal heart beat.

CLEVER CLOTHING

One of the scariest parts of being in the hospital has to be all of the machines and cables that you get hooked up to. A team at the Universidad Carlos III de Madrid in Spain have developed a Smart Shirt that could be used in hospitals to monitor patients. The shirt contains sensors which can be used to monitor the patient's heart rate, blood pressure and temperature. It can even be remotely programmed to perform an EKG. It also comes equipped with GPS. If a patient suffers a fall, heart attack or other medical problem, staff can find him quickly.



POCKET-SIZE BLOOD PURIFIER

A new portable device could remove viruses or other toxins from a person's bloodstream in the event of a biological disaster. The nearly pocket-sized Hemopurifier has recently received FDA approval to treat Hepatitis C patients. The small tube resembles a dialysis cartridge and fits into a standard dialysis machine, but it is actually the last line of defence in a worst-case scenario. Its mechanics are simple: after it is inserted into the arm at a specific site, the body's natural blood pressure acts as a pump to filter out nasty things like smallpox or Ebola. The Hemopurifier could be used to treat all kinds of diseases and infections, including AIDS and Hepatitis C.



TOUCHSCREEN MONITOR

One of the worst parts of being in the hospital is having to stay in bed for constant monitoring. This wearable health monitor, the ViSi Mobile Monitor straps onto the patient's wrist easily for constant remote monitoring of their state of health. This monitor constantly measures the patient's heart rate, temperature, blood pressure and respiration rate – all without disturbing the patient in any way. The vital signs are sent wirelessly to the doctor's smart phone, tablet or computer.