

Technological advancements of ECG systems



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THE RESTING electrocardiogram (ECG) has been used as a basic cardiac diagnostic for a century, and while the premise remains the same, testing systems are evolving to meet today's technology demands. This includes increased mobility, ease of use, streamlined workflow and interoperability so data can easily be interfaced with electronic medical records. There has been a trend over the past decade toward smaller, more compact, mobile ECG monitoring systems.

Allied Medical Limited (AML) provides transformational medical technologies and services that are shaping a new age of patient care. Our expertise in information technologies, medical diagnostics, patient monitoring and manufacturing capabilities is helping clinicians around the world re-imagine new ways to predict, diagnose cardiac diseases, so the patients can live their lives to the fullest.

These days ECG solution comes with an interpretation algorithms as standard feature. It uses gender-

and age-specific criteria to provide a virtual second opinion for resting ECG interpretation. ECG machine have been simplified to ease workflow that includes simplified step-by-step operation, touch-screen facility, alphanumeric as well as virtual keypads in some models and better connectivity with ECG management systems, HL7, HIS and electronic medical records (EMRs). Integration component to Hospital has become increasingly important as it enables



paperless healthcare and the free flow of all patient data between departments, hospitals and referring physicians. One advantage of paperless ECG review through an electronic ECG management system is the ability to access ECGs and enable remote viewing and reporting outside of the traditional workstation. Most modern healthcare providers offer remote, anywhere Web-based access to the ECG management system. This functionality includes access to ECGs and fully enabled reporting functions at home or anywhere in the hospital or clinics where a cardiologist finds some time to read cases.

Nowadays ECG solution offers an array of file formats for ECGs, including DICOM, XML, JPEG, PDF etc. Previous years ushered in many new developments and discoveries, and the coming years will undoubtedly bring additional insights concerning ECG solutions as it will remain a vital tool in the diagnostic cardiology toolbox, and its presence is expanding across inpatient, outpatient, and home settings.