

Take care of these factors to get accurate data from ECG Tests

When a patient seems to have some cardiac issue, an ECG test is performed to confirm whether he or she is at the risk of heart disease. But if an ECG test is conducted improperly, then key things such as interpretation of the results, diagnosis, and treatment plans, all can be impacted quite wrongly. Incorrect data will lead to wrong diagnosis and when the diagnosis is inaccurate, it is obvious that wrong treatment decisions will be made. There are certain factors that can have a strong bearing on the data collected during an ECG. But before we look at them it is important that you make use of best **PC-based Resting ECG** for doing tests. These ECGs are easy to learn, reliable, and work perfectly with your existing equipment. Now, let's take a look at those factors.



- You need to take skin preparation very seriously because if you do not, then chances of receiving wrong data goes up considerably. Electrodes are placed on the skin so that we can obtain a patient's electrical activity of the heart. But the problem is, skin is known for being a poor conductor of electricity due to dead skin, hair, lotions, gels, etc. So, make sure clean way hair from the skin; remove things such as lotions, oils, powder; dry the skin; and abrade the skin to get rid of dead skin cells.
- The next thing to focus on is filtering, which is helpful in removing noise from ECG recordings. Getting rid of the noise allows physicians to look at the waveform data much more clearly. Now, it is important to note that while filtering will surely help physicians to read ECGs clearly as its looks quite clean, it would be wrong to do too much filtering as the downside of it is that it can very likely remove or alter real waveform data. ECGs that are filtered way too much will make physicians miss key information.
- As we already know, ECG presents a visual representation of heart's electrical activity. In order to precisely display this activity, a resting ECG's job is to collect enough data points to create the analog signal, which needs to be quite the same as the original. Now, the sampling rate of these data points can have a big impact with ECG waveforms that have components which are either fast-moving or of high frequency. So, always ask whether the sampling rate works with a frequency response that is adjusted with the published guidelines. Is there something the user needs to do to make pacemaker detection or display better?

Quality of data captured strongly influences ECG interpretation. So, make sure you take care of the factors mentioned above, which strongly impact the data collected. Always use top-quality, 12 lead PC Cardiology System to conduct ECG tests.

For state-of-the art and improved accuracy, get real-time patient diagnostic information, enhance your efficiency and send your diagnosis to the proper healthcare provider in a timely way, use **PC-based CardioCard ECG Systems today!** What are you waiting for? [Request a demo today!](#)

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About Nasiff

Founded in 1989, Nasiff Associates is a medical technology company and leader in diagnostic cardiology medical devices including ECG/EKG devices and systems. The first company to produce a clinically useful PC-based CardioResting™ ECG, PC-based CardioStress™ (Stress ECG), CardioHolter™ (Monitor), CardioSuite® ECG System (all-in-one cardiology system consisting of Resting, Stress and Holter) and CardioVitals™. All products are developed and manufactured in the USA to maintain top quality control and unsurpassable customer care. All systems come complete with the Cardio Universal EMR Interface™. More information about Nasiff products can be found at www.nasiff.com.