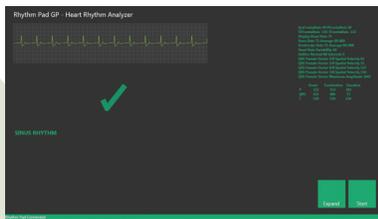


# cardiocity

engine monitoring for the heart

## RhythmPad<sup>Cloud</sup>



The RhythmPad<sup>Cloud</sup> was designed to take the RhythmPad's simple 30 second hand placement ECG screening tool and enable all the benefits of the Cloud Connectivity. The subject still places their hands on the RhythmPad and within 30 seconds their cardiac performance is established. The system automatically analyses the cardiac rhythm and details any arrhythmias or abnormalities using its inbuilt software. More reliable than traditional pulse palpation, the RhythmPad<sup>Cloud</sup> system has an inbuilt algorithm with high sensitivity and specificity for the detection of common arrhythmias such as Atrial Fibrillation. This presents a very fast turnaround time for clinicians at a local level, but the connectivity to the Cloud, allows for a subjects cardiac performance to be stored sequentially after each reading and for trend analysis to be performed.

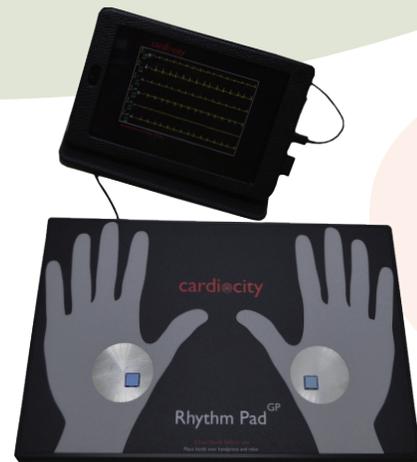
The RhythmPad<sup>Cloud</sup> embraces the novel sensing technology of the RhythmPad<sup>GP</sup> which is supplied as standard with a Velcro attachable third electrode. Patients presenting with a low lead I amplitude ECG may be screened using the third electrode to enable a higher fidelity 6 lead ECG instead of relying on just lead I. The RhythmPad<sup>Cloud</sup> allows for this higher fidelity data to be routed directly to the allocated storage and for third party analysis to be performed.

Included within the RhythmPad<sup>Kiosk</sup> package is Cardiocity's CAR<sup>7</sup> data system, allowing for the screening data to be placed directly into the Electronic Patient Record, or uploaded to the Cloud for community or practice-wide screening activities

Communicating with Windows, Android or Windows Phone Operating Systems, Cardiocity's CAR<sup>7</sup> data platform turns the RhythmPad<sup>GP</sup> into an end to end data solution harnessing the power of Microsoft's Azure Cloud system. Cardiocity utilise a commercial 3rd party algorithm that is certified to BS EN 60601-2-51 in all their products. The algorithm, which has been in use now for 30 years, provides full 12 lead functionality, adapted for use with the limb leads only. The inbuilt algorithm gives the Cloud user, instant analysis of the cardiac rhythm and allows them to store and forward the data for review. The system can send the data via 3/4G or Wifi for direct export to Electronic Patient Record, Local System Printer, PDF export, or delivery to the cloud for secondary analysis.

RhythmPad<sup>Cloud</sup> allows the power of Microsoft's Cloud computing to be used alongside the RhythmPad<sup>GP</sup>, making the system ideal for Clinical Trials as well as Community and Practice based opportunistic and targeted cardiac screening. By combining ease of use with high fidelity digital data analysis, the benefits of the RhythmPad<sup>Cloud</sup> are clear to see.

| DOMINANT RHYTHM STATEMENT    | SENSITIVITY | SPECIFICITY | POSITIVE PREDICTIVEVALUE | PREVALENCE |
|------------------------------|-------------|-------------|--------------------------|------------|
| Sinus Rhythm                 | 99.43       | 98.54       | 99.31                    | 1746/2570  |
| Sinus Bradycardia            | 100.00      | 99.69       | 97.83                    | 315/2570   |
| Sinus Tachycardia            | 100.00      | 99.80       | 94.25                    | 82/2570    |
| Sinus Arrhythmia             | 93.14       | 100.00      | 100.00                   | 102/2570   |
| Atrial Fibrillation          | 93.66       | 99.84       | 97.08                    | 142/2570   |
| Probable Atrial Fibrillation | 100.00      | 99.92       | 60.00                    | 3/2570     |
| Atrial Flutter               | 92.31       | 100.00      | 100.00                   | 39/2570    |
| Possible Atrial Flutter      | 100.00      | 99.96       | 97.37                    | 37/2570    |



# cardiocity

engine monitoring for the heart

Cardiocity Limited. Lab 138, St John's Street, Colchester, Essex CO2 7NN  
 www.cardiocity.com email:enquiries@cardiocity.com Tel: +44(0)1206209039

