

# cardiocity

engine monitoring for the heart

## RhythmPad<sup>Mobile</sup>

The RhythmPad<sup>Mobile</sup> was designed to take the RhythmPad's simple 30 second hand placement ECG screening tool and enable it to work with mobile systems. The subject 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>Mobile</sup> has an inbuilt algorithm with high sensitivity and specificity for the detection of common arrhythmias such as Atrial Fibrillation.

The RhythmPad<sup>Mobile</sup> uses novel sensing technology and 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 reading using a 6 lead ECG instead of relying on just lead I.

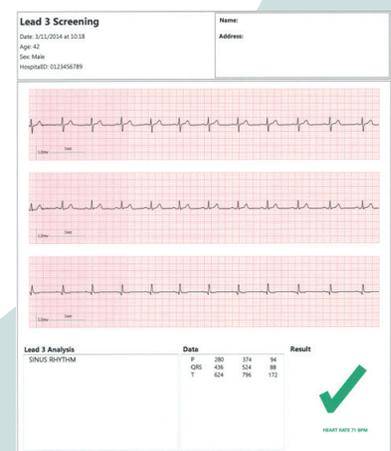
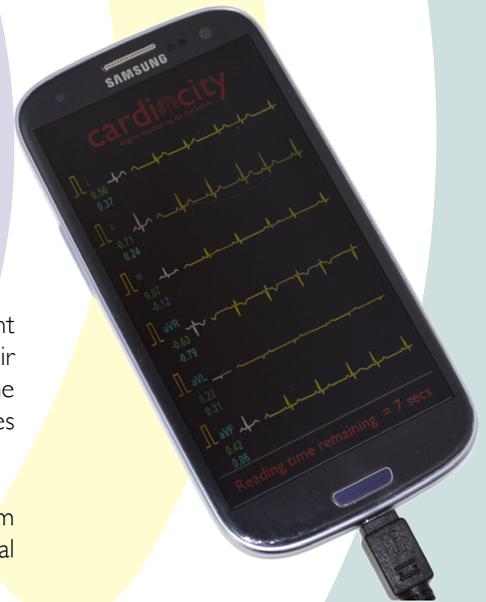
Where arrhythmias are suspected from the simple lead I hand placement, they may be confirmed using the third electrode, thus allowing a 6 lead ECG to be derived from the patient in a second, 30-second screening. The RhythmPad<sup>Mobile</sup> thus provides a higher fidelity of reading than other AF detection devices on the market.

Included within the RhythmPad<sup>Mobile</sup> package is advanced data exchange software allowing for the screening data to be placed directly into the Electronic Patient Record, through Cardiocity's CAR<sup>7</sup> data system, or directly 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 suitable for community screening or for home nursing visits.

Cardiocity utilise a commercial 3rd party algorithm that is certified to BS EN 60601-2-51 and has been widely deployed over the last 30 years. The algorithm provides full 12 lead functionality, adapted for use with the limb leads only. The inbuilt algorithm gives the mobile 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>Mobile</sup> allows for community deployed cardiac screening to be achieved, allowing for individual patients to be monitored with regards their cardiac performances, passing on the peace of mind to the mobile healthcare practitioner that an instant second opinion may be gained, whenever required. By combining ease of use with high fidelity digital data analysis, the benefits of the RhythmPad<sup>Mobile</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



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