

Company

Wyvern Business Systems Limited

SME | Hereford

Industry: Information Technology, Health Informatics

 **Wyvern**

Business Systems

Academics

Jatinder Minhas

Clinical Associate Professor of Stroke Medicine. Department of Cardiovascular Sciences.



Associate

James Ball

Research Associate, NIHR Applied Research Collaboration (ARC) funded PhD student



Project Aim

Optimising the business partner's iView Health & Wellbeing Smart Watch for accurate blood pressure monitoring during post hospital discharge stroke care to help prevent recurrent stroke episodes.

Wyvern Business Systems Ltd (WBS) has developed a unique wrist worn device that provides biometric data and wellbeing statistics used by NHS stroke patients' and required refinement of the sampling frequency of the device's blood pressure measurement process. The University of Leicester provided a recommended minimum sampling rate for blood pressure detection by modelling the impact on accuracy of recordings.

THE AKT2I project represented an opportunity for WBS to lay the foundations for developing a new to the company and new to the market SaaS: iVview would support healthcare professionals but also assist patients in their care pathways to develop a better understanding and potential management of their illness directly.

For the health sector, the benefit of optimised blood pressure measurement within a multi-functional health and wellbeing smart watch is far-reaching with national guidelines recommending, "people with stroke or TIA should be monitored frequently and medications increased to achieve target blood pressure as quickly as tolerated and safe in primary care."

Project Outcomes

This was the first in-depth study investigating minimum sampling rate within Remote Patient Monitoring setting – proof of concept shown (minimum sampling rate for blood pressure detection by modelling the impact on accuracy of recordings).

Building on the success of the project, the partnership has since produced a joint paper based on findings and further collaboration via a KTP is currently under discussion...

More anon (hopefully)!

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