

# CSP TELEMEDICINE

## CARE SAVE PREVENT

### EXECUTIVE SUMMARY

CSP Telemedicine Srl *Care Save Prevent* is an Italian Company established July 2014.

Its main focus is the development of telemedicine and videomedicine solutions.

This, thanks to the experience of the Founder, Marcello Ruspi MD – PH, Vascular Surgeon. In fact he gave his collaboration and support to the major Italian ITC (Telecom Italia™) since 2006, STMicroelectronics, Preventice Inc. and Mayo Clinic for the development of telemedicine devices and solutions as BodyGuardian™ for the remote monitoring of arrhythmias.

Actually we are developing an IOH solution - in early beta phase - thanks to our advanced algorithms based on a wrist-wearable, shock and waterproof medical device characterized of advanced algorithms, saving the caregivers costs and improving the quality of life of caregiver and their loved.

Some features:

1. Unique medical device. From portal or App it is possible to select which kind of neurological disease to remote monitor, e.g. Alzheimer's, Parkinson's, Epilepsy, Autism, post stroke, sleep disorders etc. It is possible to monitor more diseases at the same time.
2. The sampling and data transmission time vary automatically according to the pathology and the relevant algorithms.
3. Auto-learning solution: after few days of remote monitoring the solution (device-server) learns the patient's typical habits. This allows during the time do not inform about repeated habits, to establish a main personal score and to alert promptly the caregiver (or the 24/7 OR) of behavior changes.
4. For the Alzheimer's and Autism: a static or dynamic fence is defined from a small portable beacon. Inside the fence the device records only the activity level (sent daily) and obviously alerts if major (as epileptic seizure, man down, too high or too low temperature, etc.) and/or settable events occur. This allows saving energy consumption: the medical device can work even for several months without charging batteries. *The saving of the battery consumption is patent pending.*
5. The device advices promptly the caregiver (on his smartphone) and/or the OR on behavior changes and fence trespassing with localization on map and information on simple wandering, or elopement or going lost.
6. Our “*Bonus Malus Theory*” increases or reduces the main score, with sampling changes. The alerts of repeated changes are not sent.
7. The Bonus Malus Theory, the environmental temperature, the battery level etc. set the sampling frequency and mode, allowing to find anytime the patient become lost.
8. Man down sensor
9. Hand free call (in-out)
10. SOS button
11. Related height patient-caregiver: this could be useful for become lost patients e.g in a Mall or great building
12. Reminder for medicines or appointments (on the display)
13. Automatic alert if the patient removes the device
14. Clinical outcome of medical therapies
15. Monitoring of the trend of the disease
16. Gateway mode available for other medical devices (glucometer, sphygmomanometer etc.).

We're looking for partnership with Industries, Pharma and Venture capital & fund-raising.

Kind regards.

Ruspi Marcello, PH-MD, Vascular Surgeon, Founder and CEO of CSP Telemedicine.

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