Wearable Technology To Create

- Increased Wellness
- Safer Workplace
- More Productivity
- Fewer Accidents & Mistakes

The CURA™ System

Real Time Alertness & Emergency Monitoring
Sleep & Fatigue Management Solutions

A TORVEC INC. COMPANY
Better Sleep and Wellness For A Healthy, Happy and Productive Workforce

Real time Alertness Monitoring

The unchecked Degradation of an individual’s Alertness is a growing concern and the consequences in some areas are approaching epidemic proportions. As an example, it is estimated that 250,000 drivers per day fall asleep at the wheel. Serious and fatal truck, bus, train and automobile accidents are occurring at an alarming rate. Many injuries and accidents in businesses and manufacturing plants are fatigue related. A Cornell University study found that tired workers cost U.S. industry $150 billion a year in reduced job productivity and fatigue-related accidents. The purpose of monitoring alertness is to prevent these and other emergency situations from happening rather than dealing with them after the fact. Most people know when they are tired or impaired, however they feel they can get through it. Our purpose is to notify them, and others, that they are in danger before the danger manifests itself.

The MyCadian™ Watch is a wearable device consisting of the latest physiological monitoring hardware. Along with the proprietary CURA™ (Circadian User Risk Assessment) software it identifies a degradation of alertness in a user and also reveals sleep and fatigue problems.

The MyCadian™ Watch can alert the user—and third parties—to let them know their alertness is degrading. This is especially important when an individual’s alertness is essential in properly performing tasks and fulfilling responsibilities and averting disasters.

With this information in hand, employees can work with Z-Coach, our proprietary sleep training and education solution to correct sleep issues and improve wellness.

The MyCadian™ Watch also contains an emergency notification function through the use of a panic button or when the user fails to respond to a signal generated by lack of motion.

Z-Coach

In Fatigue Management one of the biggest challenges for companies is assessing the problems and needs of their employee populations. With our system employees can wear the MyCadian™ watch for a prescribed period of time in which it learns their personal rhythms, sleep habits, and other pertinent information. We can then correlate this information into a CURA™ Wellness Index. This will give the company an overview of their employee population’s sleep and wellness levels. We then start educating and training individuals with sleep and/or alertness problems which will have a significant effect on their wellness, quality of life, health care costs, longevity and attitude. All this can be achieved while maintaining an individual’s confidentiality.

Wellness

Proper sleep is the basis for all wellness and manifests itself corporately in more productivity, less absenteeism, fewer accidents and mistakes while creating a better quality of life for the individuals. This can also have a very positive effect on corporate profits without additional operational burdens to the company.
The CURA™ System Advantage

- A unique proprietary combination of biological and motion measurements that communicates information about alertness to the user and 3rd parties, with minimal disruption to normal activities
- An easy to understand, color-coded risk assessment analysis, tracking and warning of changes in the wearer’s alertness and ability to perform tasks
- A comprehensive assessment and solution for health, wellness, alertness and good sleep
- An easy to use software package that distills complex data into simple, actionable information—on both mobile and desktop platforms
- Assistance in staying alert, and early warnings when alertness begins to wane—long before fatigue becomes dangerous
- Versatile, flexible settings to allow management to customize the CURA™ System to work with existing safety systems and create their own protocols
- Competitive pricing that makes it affordable to provide an entire workforce with MyCadian™ Watches
- The CURA™ report generator gives you easy to read and actionable information regarding sleep health, fatigue levels and activity monitoring

The result:

Better health for all participating employees

Safer environment, whether employees are at work, on the road, or at home. The goal of the CURA™ System is to significantly reduce accidents, injuries, and deaths.

Increased productivity at less cost

- Reduced health and liability insurance costs
- Decreased absenteeism
- Decreased “presenteeism,” (employees who are there, but too tired to do their best work)
- Improved scheduling
- Fewer accidents and mistakes
- Better bottom-line results

A turnkey system that results in a safer, healthier, and more productive work environment
Comparison with Leading Fitness Wearables

Developed for:
- Professional drivers
- Airline pilots
- Train engineers
- Bus drivers (school & over the road)
- Everyday drivers
- Municipalities (Police, Fire, DPW Workers...etc.)
- Hospital personnel
- Security guards
- Military / Govt (Air Traffic Controllers, Guards etc)
- Maritime personnel
- People monitoring critical processes (nuclear facilities, infrastructure...etc.)
- Corporations & businesses
- Surveillance agents
- Students
- Emergency notification function for store clerks, children, elders and all users

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<thead>
<tr>
<th>Benefits</th>
<th>CURA™ System</th>
<th>Other Wearable Watches</th>
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<tbody>
<tr>
<td>Tracks steps &amp; other fitness activities and metrics</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td>Tracks and predicts a degradation of alertness</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>Personalized identification and remediation of sleep problems</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>Tracks Circadian Rhythms</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>Adaptive algorithms that collect and analyze information to predict individual levels of sleep, fatigue &amp; alertness</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>Predicts &amp; notifies third parties of dangerous or critical situations due to fatigue</td>
<td>YES</td>
<td>NO</td>
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