Think about how many times you scan the dashboard as you drive, making subtle changes in your speed, your gear and even your destination. Now, imagine if you had the same insight into your body. Technology in the world of fitness and weight management is changing almost as rapidly as the world of computers and smartphones. New accelerometers and multi-sensor body monitors are giving people unprecedented insight into their activity profiles and sleep, and users are finding out that what they know really can make a difference.

The Rise of Activity Monitoring

Until a few decades ago, the biggest inroad technology had made into fitness and weight management was a pedometer. Pedometers, which have been around since the eighteenth century, measure steps and distance an individual takes. Studies have shown that even this most simplistic dashboard can provide insights that change behavior.

Unfortunately, the accuracy of pedometers can be off, sometimes significantly. Even a little bit of inaccuracy can hurt the ability to manage your weight and fitness, especially when the error is compounded over time.

Heart rate monitors made their debut as part of the training tools of the Finnish National Cross Country Ski Team in 1977. Heart rate monitors measure beats per minute, helping gauge the intensity of an activity. The use of heart rate monitors helped usher in the concept of “intensity training,” but the monitors have limited use outside of measuring short bursts of intense activity.

More recently, accelerometers, such as Fitbit® and Gruve®, took fitness and weight management technology a step further. Accelerometers track steps taken, distance traveled and calories burned, and are more accurate than pedometers, but still are not the most accurate devices on the market. Accelerometers can have difficulty picking up calories burned during times of low movement, such as when a person is lifting weights, watching television or sleeping. In fact, sometimes accelerometers can be “tricked” and count movement and motion that you aren’t doing yourself, such as riding in a car.

Multi-sensor Body Monitors

More sophisticated body monitors, called multi-sensor body monitors, go beyond accelerometers. Multi-sensor body monitors, such as BodyMedia FIT™ and bodybugg®, combine
What the Future Holds

What will the world of fitness and weight-loss technology look like a year from now, or even five? BodyMedia FIT offers an add-on feature called ProConnect™. If your doctor or fitness coach participates in ProConnect™, you will be able to share your information with them safely online. In return, they will be able to monitor your fitness progress and provide encouragement and support. Other weight management technology companies are looking to add blood sugar tracking to their monitors. This would be a huge benefit to people with diabetes or pre-diabetes, and it would make people at risk more aware of the impact their food and activity choices have on their overall health.

Some companies are taking a path that may intersect with gaming consoles like the Nintendo Wii® or Kinect for Xbox 360®. This would create activities people can do in front of the television using a body monitor to transmit the participant’s movement to those of an avatar onscreen, while also showing a running total of calories burned. The hope is that this will improve participant compliance by building higher engagement and help remind people that exercise and body monitoring can be fun. Still, other companies are beginning to combine social media and body monitoring by allowing the consumer-driven sharing of monitor data and encouraging the creation of online fitness and weight-loss social groups, distance coaching and online challenges.

Whatever the future holds, companies and consumers have made it clear – accurate tracking of activity, sleep and food eaten is going to continue to play an important role in weight management.

About the Authors:

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The Obesity Action Coalition (OAC) is a National non-profit organization dedicated to giving a voice to individuals affected by obesity and helping them along their journey toward better health. Our core focuses are to elevate the conversation of weight and its impact on health, improve access to obesity care, provide science-based education on obesity and its treatments, and fight to eliminate weight bias and discrimination.

The OAC knows that the journey with weight can be challenging but we also know that great things happen when we learn, connect and engage. That is why the OAC Community exists. Our Community is designed to provide quality education, ongoing support programs, an opportunity to connect, and a place to take action on important issues.

Through the OAC Community, you can get access to:

Weight & Health Education • Community Blogs
• Community Discussion Forum
• Ongoing Support • Meaningful Connections
AND MUCH MORE

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