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.

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Building a Coalition of those Affected

The OAC is the ONLY non-profit organization whose sole focus is helping those affected by obesity. The OAC is a great place to turn if you are looking for a way to get involved and give back to the cause of obesity.

There are a variety of ways that you can make a difference, but the first-step is to become an OAC Member. The great thing about OAC membership is that you can be as involved as you would like. Simply being a member contributes to the cause of obesity.

Why YOU Should Become an OAC Member

Quite simply, because the voice of those affected needs to be built! The OAC not only provides valuable public education on obesity, but we also conduct a variety of advocacy efforts. With advocacy, our voice must be strong. And, membership is what gives the OAC its strong voice.

Benefits to Individual Membership

• Official welcome letter and membership card
• Annual subscription to the OAC’s publication, Your Weight Matters Magazine
• Subscriptions to the OAC Members Make a Difference and Obesity Action Alert monthly e-newsletters
• “Bias Buster” Alerts, alerting specifically to issues of weight bias
• Immediate Advocacy Alerts on urgent advocacy issues and access to the OAC’s expert advocacy team
• Ability to lend your voice to the cause