



How Real-Time Continuous Remote Monitoring can Assist Health Care Providers in Saving Lives

4 Case Studies



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Caring for recovering surgical clients and the elderly requires a gentle hand and the ability to provide care while supporting the client's dignity and independence in a safe and managed way.

Often, skilled nursing facilities, home care agencies, home health agencies, and assisted living facilities sit between a family that wants consistent reassurance that their loved one is safe and a client fighting to maintain autonomy.

Even in a facility setting, some clients either fail to recognize or fail to communicate the physiological changes that indicate the presence of an infection or a declining health condition.

Often, by the time the nursing staff discovers the condition, it has progressed in severity and requires more invasive treatment to manage.

Early alerts lead to early intervention, and early intervention decreases the severity of the condition and even saves lives.

At Algorithmic Intuition (Ai2), we have just begun to scratch the surface of the possible benefits of remote monitoring and early intervention. Yet, already, we have seen dramatic results and witnessed the power of consistent, reliable, accurate health data in vulnerable populations' lives.



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Identify the Need for Increased Care

Living alone, an older man received weekly home care services that brought a caregiver into the home for four hours each day. During visits, the caregiver performed standard duties – checking the man's welfare, engaging in social activities and conversations, and asking about his activities and well-being during his time alone.



The family was concerned that the man was experiencing falls – which the man denied. To better understand his mobility challenges, the family opted to install a 2-hub CareMate system at his home. CareMate provided training to the caregiver, all necessary supplies, and a Field Guide.

Within weeks, it was evident the client was indeed struggling with mobility and experiencing falls and stumbles during the day and especially at night when the client had insisted that he had no problems.

The data confirmed what the family suspected and allowed them to weigh the client's independence against his care needs based on objective, indisputable data regarding physical abilities and behaviors. The result was a confident healthcare decision based on reliable, consistent, and accurate data.

Instead of waiting for a severe fall, the family prevented it by increasing care and alerting all caregivers of the client's mobility challenges. The home care agency dramatically increased services, and the family gained greater peace of mind.

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An ALF Gets Backup

An assisted living facility (ALF) enrolled in CareMate's pilot program and installed a 10-hub, 4-sensor system. The facility was home to several residents, including those in need of memory care. Since memory care residents struggle to communicate effectively, it can be difficult to recognize potentially dangerous health conditions.

Through the data delivered by CareMate, the ALF was able to identify that a client's skin temperature would rise significantly during the night and then lower during the day. The data also revealed that the resident was moving more during the night than during the day, indicating that the resident was experiencing night chills or night sweats.

This information prompted the facility to conduct a thorough examination of the resident, which revealed a severe infection. The CareMate system's alerts allowed a client, who could not communicate discomfort, to receive care for a substantial infection and enabled the ALF to provide the best possible care.



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Healthier Home Care



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Families often struggle to decide whether or not to allow their aging loved ones to remain at home. As the risks associated with falls, loneliness, and mobility increase with age, many still desire to stay independent in their home.

The family of one octogenarian, post-acute female, wanted to honor her wishes to remain in her home and have the peace of mind that comes from consistent monitoring. The family turned to CareMate to provide the best of both worlds.

After some time, the Daily Report indicated the possibility of infection based on a rising body temperature and downward trending heart rate over the course of three days. Armed with this information, the family visited the client's doctor.

As a result, the client's previously undiagnosed hormonal imbalance was identified. The client began receiving treatment and realized a significantly improved quality of life.

Before, During, and After Fall Care

Another family, faced with the same dilemma, also elected to monitor their loved one's health using CareMate. While being monitored, the client experienced a fall. The CareMate software identified the fall and sent alerts to notify the family within one minute of the event, allowing them to respond immediately.

The client received treatment and was prescribed pain management medication as a result of her injuries. The client returned home to recover while still being monitored by CareMate. During her recovery, the automatically generated Daily Report alerted her family to a new condition. The client's resting heart rate had changed, and her sleep had become restless.

By comparing this data to the baseline information established during the client's pre-fall monitoring period, the medical team recognized that the client was having an otherwise undetected, adverse reaction to the prescribed medication. The medical team adjusted the prescription to balance pain management and better sleep.

The family found peace of mind in the monitoring provided by CareMate before the fall, but the unexpected advantages of accurate, consistent health monitoring became even more apparent after the fall and through the recovery.

Later, during the height of the 2020 COVID-19 pandemic, the same client developed an unusually high skin temperature. In light of current events, the initial concern was that she had become infected with the coronavirus. The client was initially directed to go to the hospital for diagnosis. However, the caregiver elected to print the Daily Report and provide it to the client's primary care physician. The report included detailed ECG and body temperature data. After reviewing that information, the PCP invited the client to his office, where he obtained urine and blood samples, which led to a urinary tract infection diagnosis.

Avoiding the hospital allowed the client to avoid potential exposure to COVID-19 and the preventative coronavirus treatments - which were poorly understood at the time.

Real-time, continuous, non-intrusive health monitoring allows both families and clients to enjoy the peace of mind that comes from reliable, consistent health data. It also provides the early warning alerts that medical teams need to enable faster interventions and improve client longevity and quality of life.

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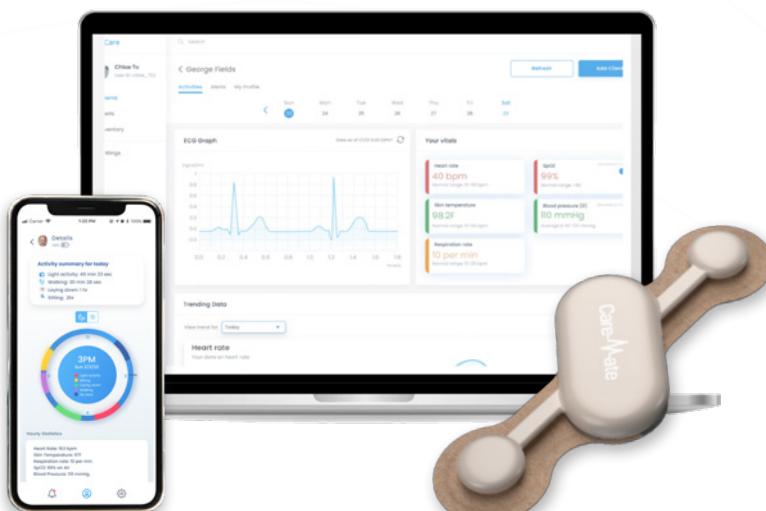
About CareMate

Healthcare is a demanding industry, and it's getting tougher. Client numbers continue to rise while the number of new nurses is dropping. As people live longer, aging populations are growing fast. That means seniors need care for longer periods of time, often at home. If you work in a home care agency or assisted care facility, you've experienced this crunch: you're understaffed, your teams are stressed and overworked, and the quality of client care suffers.

CareMate relieves pressure on nurses and home health workers by enabling a higher standard of remote client care. Specialized sensors and intelligent software work together to provide robust, real-time data 24/7/365, that helps nurses manage clients more effectively. Lets clients know that they're being properly monitored. And reassures family members that their loved one is ok.

Leaders in Innovation

After years of pioneering the use of intelligent sensor technology, Algorithmic Intuition (Ai2) is thrilled to put these advancements to work in health monitoring devices through its CareMate product. Our goal is to help senior care organizations and families cope with the difficult realities of caring for aging family members.



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