



**Key Issues in the Storage and
Transportation of
Temperature-Sensitive
Medical Products**

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About Temptime Corporation:

Temptime innovates cost effective monitoring solutions for environmentally sensitive products to ensure supply chain integrity, protect patients and benefit communities globally. We are deeply committed to improving global public health. For 30 years, our temperature monitoring devices have helped healthcare workers immunize millions of children around the world and extend care to regions previously thought to be unreachable. Today, pharmaceutical corporations, biotechnology companies, specialty pharmacies, emergency medical service organizations and hospitals are using our devices to help improve the storage and handling of hundreds of medical products each day. Temptime is honored to serve these organizations and contribute to improving the health of people around the world. We are dedicated to continually developing new technologies that will meaningfully improve global health for years to come.

What issues surrounding storage and transportation of temperature-sensitive medical products are top-of-mind at your organization?



Evolving Regulatory Oversight: With an ever changing landscape in regulations including increased scrutiny around environmental conditions in storage and transportation, it is imperative to have a good quality system and processes in place to meet these requirements. Findings by regulators and/or accrediting bodies can be extremely costly to your organization, your reputation, your brand, and your financial performance. For these reasons high quality, trusted monitoring and visual controls are critical to the successful storage and distribution of your organization's brands.



Customer Complaints and Patient Safety: Customer satisfaction and product performance are critical to establishing the brand equity of your products. The digital revolution and mainstream use of social media via smart phones and tablets has created a vector for customers to acclaim or complain about a brand or a company in real time and in a potentially viral manner. These channels, coupled with the delivery expectations created by Amazon and other ecommerce sites has created high customer expectations where high quality product is delivered quickly and within the appropriate temperature range. Proper visual temperature controls used in each package will signal to the customer if the appropriate temperature range has been maintained, giving the customer peace of mind.



Impact on Financial Performance: Successful execution of the shipment process is critical for driving high customer satisfaction and brand equity. For this reason good quality processes for ensuring proper temperature controls throughout the entire supply chain are critical and the right temperature monitoring devices can help.

How do organizations balance the requirements of regulators and the needs of patients when adhering to temperature monitoring regulations?

Qualifying and implementing the appropriate temperature monitoring system can be complicated. There are many different solutions available and very few specifically oriented for the life sciences market. Furthermore, the data driven requirements of regulators often are at odds with the less complex needs of the patients. There isn't a one size fits all solution. With the right assistance and product offering, meeting all of these demands is achievable.



Who is responsible for ensuring that a temperature sensitive medical device or combination drug/device is delivered to the patient with adequate efficacy?



The manufacturer is the brand owner and has the largest equity stake to gain or to lose. The right temperature monitoring processes and devices can enhance and grow your brand or can destroy it. The potentially damaging impact of temperature exposure to your

temperature sensitive medical device or combination drug/device can negatively impact the expected and desired patient outcome, ultimately ruining the patient experience and the brand.

How can organizations monitor the temperature exposure of the product once it leaves the facility and until it is delivered to the patient or doctor?

With advancements in temperature monitoring technologies, manufacturers have the ability to capture information and data through the supply chain until the last mile. These temperature monitoring devices are easily integrated into your existing system and are low cost, effective, and appreciated by the patients.

How can temperature monitoring devices and systems positively impact the financial performance of a company?

Distribution models are developed with the expectation that product will be delivered efficiently and effectively each time the process is performed. Every time the process fails and a return or reship is required, this negatively affects the patient experience and outcome while costing the company money.

Many organizations have found that through our unique solutions it is possible to significantly reduce product returns and realize a competitive advantage in the market by enhancing the customer experience.





**Improve customer satisfaction and safety,
meet evolving regulations, and improve
financial performance through proper storage
and transportation of medical products.**

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