

Vaccine Protection

Asset

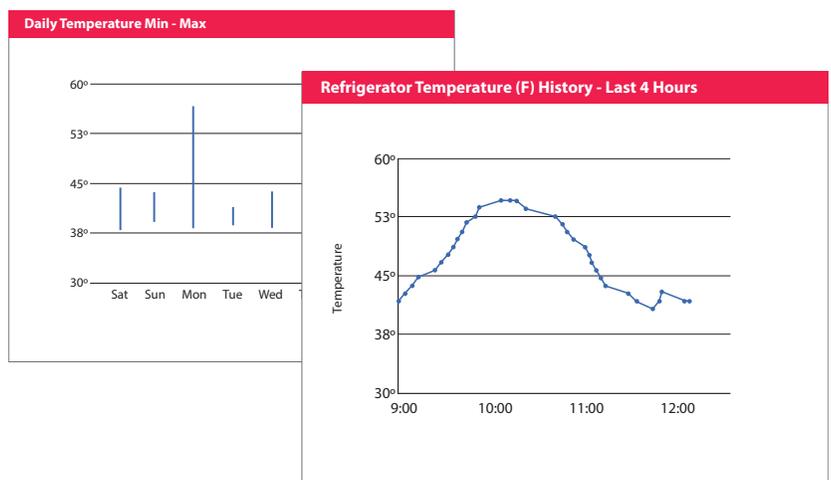
Refrigerated or frozen vaccines stored at clinic locations

Risk

Refrigeration failure can spoil vaccines, potentially leading to loss of revenue, inability to meet patient needs, impact on patient safety if spoilage goes undetected, as well as harm to clinic reputation.

Solution

The Lab-Call service combines the TextAlert cellular gateway with modified firmware, external temperature sensors placed in refrigerators and/or freezers, and a cloud-based incident management system which monitors storage temperatures, logs data, and notifies clinic staff of power loss or out-of-range temperatures. This allows clinics to be proactive and respond quickly to prevent spoilage.



Lab-Call dashboard

Operation

- The Lab-Call system is deployed at the clinic site with external sensors placed in refrigerators.
- The on-site system is programmed to recognize power loss or significant temperature changes and distinguish them from normal refrigeration cycles.
- When significant temperature changes are detected the on-site gateway sends a cellular message to the cloud-based incident management system.
- The incident management system logs and interprets the data and notifies clinic staff, via text message and email. A hot link to the clinics Vaccine Emergency Plan is provided.



Benefits

- Lab-Call service monitors temperatures continually rather than periodically to provide real-time notifications.
- It “learns” the freezer’s normal defrost cycle to eliminate false alarms.
- Lab-Call records all readings, stores them for the clinic in the cloud, and provides robust reporting tools to document regulatory compliance.
- Lab-Call service includes assistance in developing an emergency response plan.
- The response plan is hot-linked to the Lab-Call problem database so staff can quickly access response instructions when a problem arises.



Notes

The Lab-Call system was developed jointly by primary care clinics and NimbeLink. This ensures both in-depth knowledge of clinic operations and development of a sophisticated, robust, and reliable monitoring and notification system.



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