ivWatch Peripheral IV Monitoring Device for the Early Detection of Infiltrations

Continuous monitoring by the ivWatch Model 400 can reduce the risk of harm for OR patients.
The millions of patients who undergo surgery every year have their anesthesia, medications and fluids administered through intravenous therapy. IV assessment is a critical component of care, especially since recent medical reports indicate that IVs fail about 50 percent of the time, with 23 percent of failures due to infiltrations or extravasations.¹

The ivWatch Model 400 continuously monitors the IV site to detect infiltration and extravasation events before the signs may be visible, and alerts the medical staff to investigate. Early intervention can improve outcomes for the patient by reducing the risk of injury to the surrounding tissue.

In the OR, the risk of complications caused by these infiltrations can increase with the length of surgery given limited visibility of IV sites and the complex physical requirements of the procedure where patients’ arms are tucked or draped. Beyond the potential for patient harm, every infiltration is a medication dosing and drug delivery error that can prolong hospital stays, increase health care expenses, or create significant legal risk and reputation damage for healthcare providers.

Early detection through continuous monitoring of peripheral IVs is key to reducing patient risk and harm. Clinical studies confirm sensitivity values of 99 and 96 percent for yellow and red notifications respectively for the ivWatch Model 400. The device also has the capability of detecting infiltrations in as little as 0.22 mL of IV fluid with average detection of an infiltration at just over 3 mL of IV fluid.²

The ivWatch Model 400 allows facilities using designated Philips Patient Monitors* to see infiltration detection notification on in-room patient monitors and remote nurse station monitors allowing clinicians to respond quickly to events and minimize patient harm. Infiltration/extravasation notifications as well as periodic IV assessment data can also be integrated into the EMR through Philips Monitoring Systems.

ivWatch is committed to the continuous improvement of patient safety and the elimination of harm. Our ability to extend this improvement to patients undergoing surgery inspires and guides us as we move forward in our mission.

². Internal Document: DR-1001024: Device Validation for Infiltrated Tissues

* The ivWatch Model 400 is compatible with Philips Patient Monitoring Systems IntelliVue MP40-90 and MX400-800 through the IntelliBridge EC10 Interface Module or IntelliBridge EC10 integral Interface Board with Open Interface Driver (ED101) and ECS ID Module.

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