



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
critical patients.



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Every year in the United States, intensive care units admit millions of patients whose medications and fluids must be administered through intravenous therapy, but according to current medical reports, more than 50 percent of IVs fail, with 23 percent of those failures due to infiltration.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.

Patients in the ICU are likely to be attached to continuous monitoring systems that alert clinical staff to changes in their vital signs, and enable quick action to correct problems. But until recently, there has been no such technology to protect the patient at the earliest signs of an IV infiltration.

ICU patients are particularly vulnerable to peripheral IV (PIV) infiltrations because they cannot always perceive or react to signs their IV may be failing. Beyond the potential patient harm, every infiltration results in a medication dosing and drug delivery error. Those errors can prolong hospital stays, increase health care expenses, or create significant legal risk and reputation damage for healthcare providers. ivWatch is the leader in developing the technology to support the safety and reduction of patient harm from infiltrations and extravasations.

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 critical patients inspires and guides us as we move forward in our mission.



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1. Helm, R. E., Klausner, J.D., Klemperer, J.D., Flint, L.M., and Huang, E. (2015). "Accepted but Unacceptable: Peripheral IV Catheter Failure." *Journal of Infusion Nursing*, 38(3), 189-203.
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 EC5 ID Module.

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