

# FloPatch Case Study

Grand Rounds Presentation: May 9, 2023

## Effective Management of Sepsis-Related Hypotension in an 82-Year-Old Male Patient

**1** Patient admitted to ICU during night shift (0300) with sepsis-related pneumonia, potential stiff left heart, and inflamed lungs

**2** Patient was in uncontrolled AFIB on Amiodarone drip; hypotensive on Neosynephrine drip

**3** SBP fell to 70s; HR up to 140s. RN titrated Neosynephrine drip from 80 up to 100 mcg

**4** RN called MD with concern for BP; requested central line

**5** MD did not want to titrate Neosynephrine up; questioned if he can give a fluid bolus & needed to assess fluid responsiveness; ordered FloPatch before considering a central line

**6** FloPatch assessment performed; patient was fluid responsive

**7** 500ml RL IV given; BP improved (121/74); RN titrated Neosynephrine drip down

**8** Patient avoided central line

### FloPatch: Proactive Prevention



Avoided escalating patient care on night shift with limited staff and resources.



Avoided fluid overload and intubation by assessing for fluid responsiveness.



Avoided blindly treating a patient at risk for pulmonary edema, thus avoiding possible renal replacement therapy.

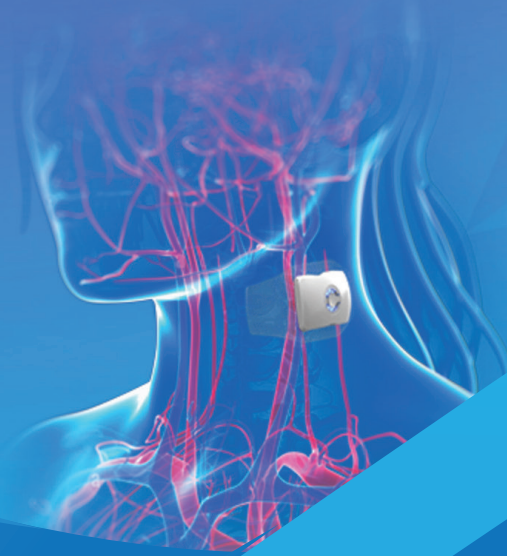
**“I love that FloPatch is simple and self-explanatory. It’s easier than other fluid responsiveness devices I’ve used.”**

Katie, RN, El Camino Hospital

### Impact on Patient Care

- ✓ Patient successfully managed avoiding a central line
- ✓ Vasopressor weaned, avoids potential complications
- ✓ Increased confidence in clinical decision making





# FloPatch

## Quick, Intuitive, and Reliable Hemodynamic Assessments for Precision Fluid Management

### FloPatch is designed to revolutionize point-of-care ultrasound assessments.

These assessments are vital for making informed clinical decisions, especially around fluid resuscitation and management. Conventional bedside ultrasound is traditionally used; however, it requires cumbersome equipment, special training, and can be time-consuming while only offering static measurements.

FloPatch, the world's first wireless, wearable Doppler ultrasound, addresses these challenges head-on, simplifying the process and making it more accessible. It is a **hands-free, non-invasive device providing rapid, repeatable, and trusted dynamic assessments with real-time data at the bedside.**

Clinicians can **quantify hemodynamic changes resulting from an intervention**, providing a more precise understanding of a patient's condition and response to treatment.

### Why did FloPatch matter in this case?

In critical care settings, where time is of the essence, FloPatch's ability to provide rapid and repeatable assessments is invaluable, enabling informed clinical decisions to improve patient outcomes

In this case, assessing fluid responsiveness was crucial. The quick assessment using FloPatch swiftly guided the decision to administer a fluid bolus. The successful management of the patient's condition, while avoiding a central line and decreasing the need for vasoactive drugs, emphasizes the **value of FloPatch in enhancing patient care and treatment outcomes while saving time at the bedside.**

FloPatch's ability to provide advanced ultrasound metrics like Corrected Flow Time (FTc) can **empower clinicians to observe and interrogate a patient's hemodynamic status** in more detail. This could prove particularly beneficial in cases such as this where monitoring the patient's response to vasoactive drugs and fluid administration is critical.

**FloPatch holds the potential to transform the way clinicians approach and manage hemodynamic assessments, paving the way for more efficient, effective, and patient-centered care.**