

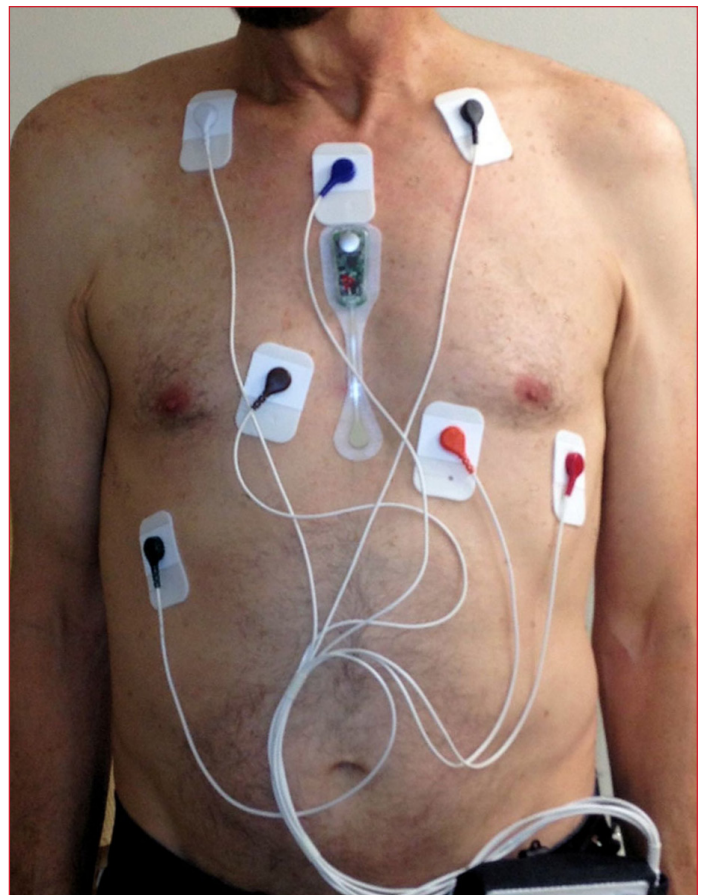
# CAM vs. Holter Study

## STUDY PURPOSE

To compare simultaneous recordings to determine diagnostic efficacy between an external patch system specifically designed to ensure better P-wave recordings and a standard Holter monitor

## STUDY METHODS

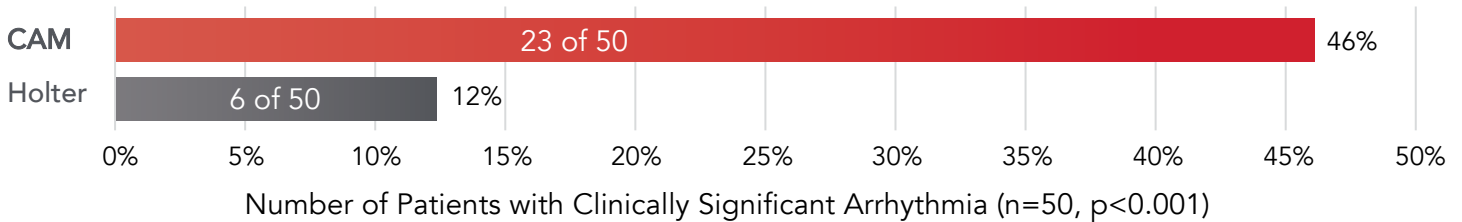
- Prospective comparison of a single-channel patch monitor and a standard 3-lead Holter monitor:
  - Carnation Ambulatory Monitor (**CAM**) (Bardy Diagnostics, Inc.)
  - Standard DR180 Series 3-channel (leads V1, II, and V5) Holter monitor (NorthEast Monitoring, Inc.)
- 50 consecutive adult patients enrolled from a single center:
  - Both devices simultaneously applied and removed after 24 hours
  - Each patient served as their own control
- Holter and **CAM** reports were read in a blinded fashion by two electrophysiologists unaware of the findings in the other corresponding ECG recording
- All patients, technicians, and physicians completed a questionnaire on comfort, ease-of-use, and potential complications



OUTCOME MEASURES	
<b>Primary</b>	<ul style="list-style-type: none"> <li>Impact on Clinical Decision-Making When Comparing Rhythm Findings</li> </ul>
<b>Secondary</b>	<ul style="list-style-type: none"> <li>Patient Assessment <ul style="list-style-type: none"> <li>- Device Preference</li> <li>- Comfort</li> <li>- Skin Irritation</li> <li>- Discreetness</li> <li>- Effect on Daily Activities</li> <li>- Effect on Sleeping</li> </ul> </li> <li>Clinician Assessment <ul style="list-style-type: none"> <li>- Device Stability</li> <li>- Ease of Attachment</li> </ul> </li> </ul>

## STUDY RESULTS

**IMPACT ON CLINICAL DECISION-MAKING** } The **CAM** Patch yielded clinically significant information that either altered patient management and/or prevented the need for intervention as indicated by the Holter.



The **CAM** Patch identified arrhythmias missed or misidentified by the Holter in over a third of the patients. The Holter identified only a subset of clinically significant arrhythmias, all of which were also found using the **CAM** Patch.

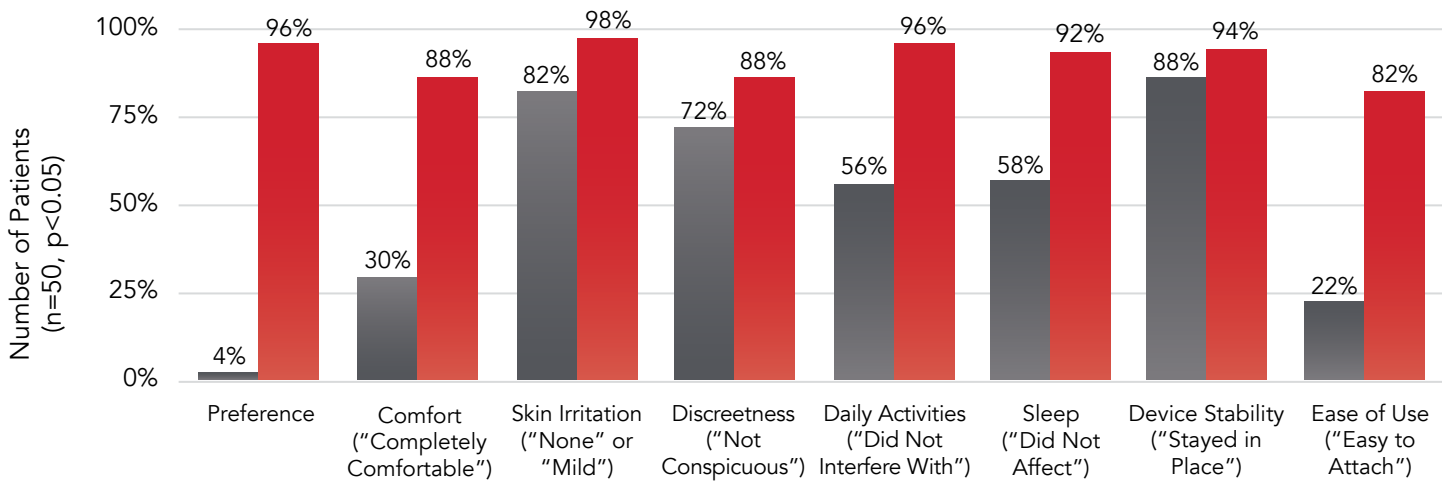
Missed by Holter (7 of 50 patients)	Misidentified by Holter (10 of 50 patients)	Identified by Both (6 of 50 patients)
<ul style="list-style-type: none"> <li>AFI, in addition to AF – Identified as AF only on Holter (3 patients)</li> <li>NSVT</li> <li>Sinus Arrest</li> <li>AVB</li> <li>CHB and Sinus Arrest*</li> </ul>	<ul style="list-style-type: none"> <li>AT – Identified as AF on Holter (2 patients)</li> <li>ST – Identified as AT on Holter</li> <li>No AF – Identified as AF on Holter</li> <li>AF – Identified as AT on Holter</li> <li>ST – Identified as AT on Holter</li> <li>No PVCs – Identified noise as frequent PVCs on Holter</li> <li>1:1 AT – Identified as ST on Holter</li> <li>AT with no VT – Identified as AF with VT on Holter</li> <li>AFI with CHB – Identified as AF with junctional escapes on Holter</li> </ul>	<ul style="list-style-type: none"> <li>NSVT (2 patients)</li> <li>Sinus Arrest</li> <li>AF &amp; AFI</li> <li>AF</li> <li>Wenckebach AVB</li> </ul>

\* 1 pt had 2 arrhythmias missed

Abbreviations: AF, atrial fibrillation; AFI, atrial flutter; AT, atrial tachycardia; AVB, atrioventricular block; CHB, complete heart block; NSVT, nonsustained ventricular tachycardia; PVCs, premature ventricular contractions; ST, sinus tachycardia.

## PATIENT & CLINICIAN ASSESSMENT

The **CAM** Patch outperformed the Holter monitor on all comparison metrics. The **CAM** Patch was significantly preferred by patients over the Holter monitor.



## STUDY CONCLUSION



In a direct comparison on 50 consecutive patients, the single-channel **CAM** Patch monitor demonstrated to be comfortable, easy-to-use, and designed to reliably capture the P-wave as compared to the Holter monitor. As a result of the superior ECG clarity, it resulted in significantly improved rhythm diagnoses when compared to the standard 3-lead Holter.

The Carnation Ambulatory Monitor is designed to provide extended-duration cardiac monitoring for people who are suspected of having cardiac arrhythmias. **Rx only.** For safe and proper use of the products mentioned herein, please refer to the Instructions for Use.

*Source: Rho R, Vossler M, Blancher S, Poole JE. Comparison of two ambulatory patch ECG monitors: The benefit of the P-wave and signal clarity. American Heart Journal. 2018;203:109-117. doi:10.1016/j.ahj.2018.03.022.*

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