EK-PRO ALGORITHM v14
PERFORMANCE COMPARISON

STUDY OVERVIEW (1)

GOALS

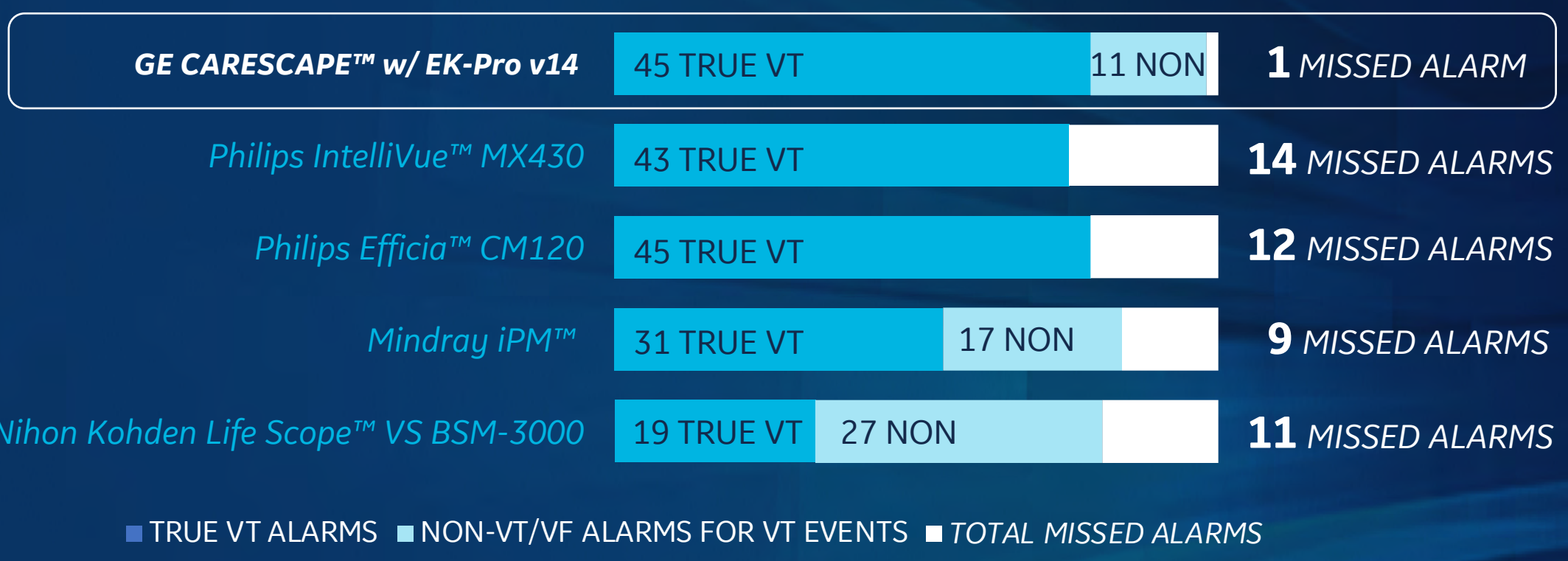
Determine how our **EK-Pro Algorithm v14** performs in **arrhythmia detection** compared to algorithms in 4 other monitors with specific software versions and ECG algorithms on the market.

1 ACCURACY
DETECT AND ALARM FOR SERIOUS CARDIAC ARRHYTHMIAS

2 SPECIFICITY
HELP MINIMIZE THE NUMBER OF FALSE ALARMS

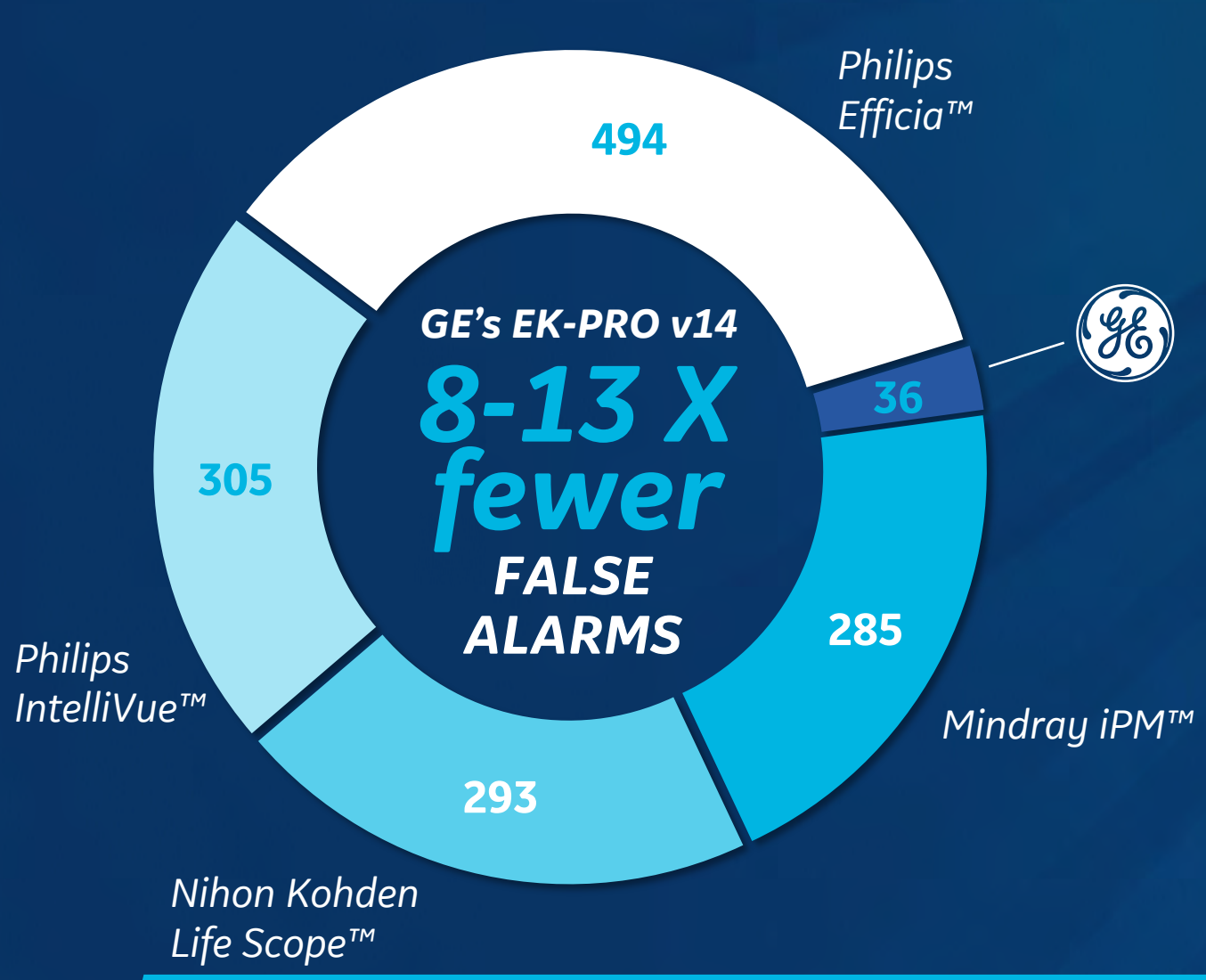
TEST 1: ACCURACY OF TRUE EVENTS

Sensitivity testing was done by **feeding pre-collected ECG waveforms into the monitors**.
The 29 recordings included **57 true annotated VT arrhythmias** from ICUs in Europe and Canada.



TEST 2: SPECIFICITY OF ALARMS

Tampere University Hospital in Finland tested **false alarms** with motion artifacts and challenging morphologies including **42 long-term post PCI patients with MI.**



ALARMS TESTED

- ✓ **VT**
- ✓ **ASYSTOLE (ASY)**
- ✓ **VENTRICULAR FIBRILLATION (VF)**
- ✓ **NON-SUSTAINED VENTRICULAR TACHYCARDIA** *(NSVT, A RUN OF 3 TO 5 CONSECUTIVE VENTRICULAR BEATS AT A RATE HIGHER THAN OR EQUAL TO VT RATE)*
- ✓ **ACCELERATED VENTRICULAR RHYTHM (AV) AND VENTRICULAR BEAT RUNS (VRUN)**

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1. EK-Pro Algorithm v14 Performance Comparison Study, 2020 JB78843US

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