

HRS 2021 Clinical Abstract Summary

Continuous ECG vs. MCT

STUDY

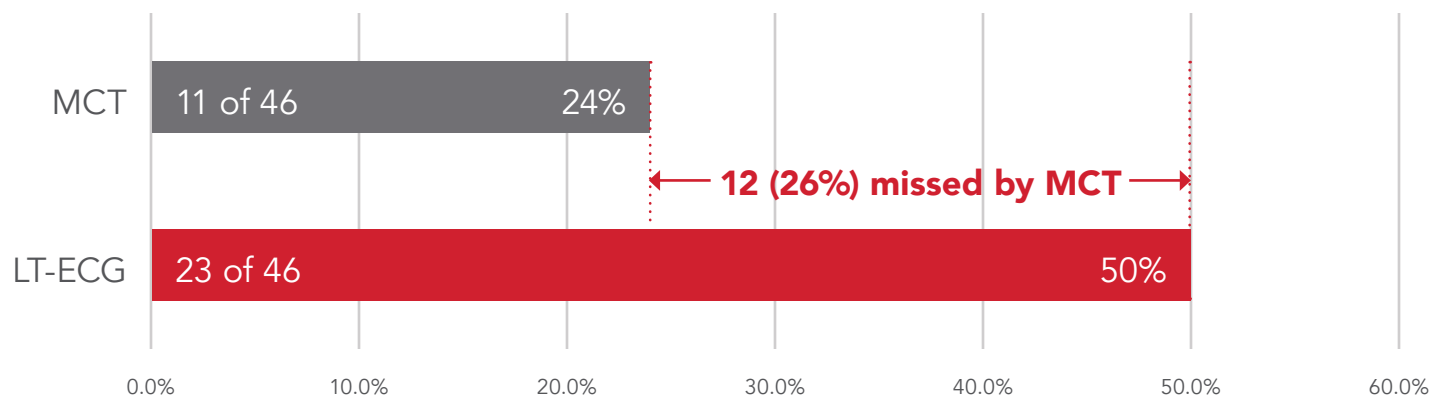
This study compares the diagnostic accuracy between human oversight-dependent continuous ECG monitoring and algorithm-dependent mobile cardiac telemetry (MCT).

METHODS

50 sequential patients wore the MCT and a long-term continuous ECG patch monitor simultaneously. Each study and the associated report were reviewed by two electrophysiologists and categorized according to whether significant clinical arrhythmias were correctly diagnosed.

STUDY FINDINGS

Twice as many patients were diagnosed with significant arrhythmias using continuous ECG monitoring



- In 7/46 (15%), VT was reported by MCT, compared to 13/46 (28%) patients by LT-ECG monitoring.
- In 3 patients, 2° AV block was unreported by MCT but captured by LT-ECG monitoring.
- In 2 patients, AV node re-entrant tachycardia, captured by LT-ECG monitoring was missed by MCT.

CONCLUSIONS

Human-oversight dependent continuous ECG recordings significantly outperformed algorithm-dependent MCT recordings in the same patients over the same time period.