

# IN-TIME Study

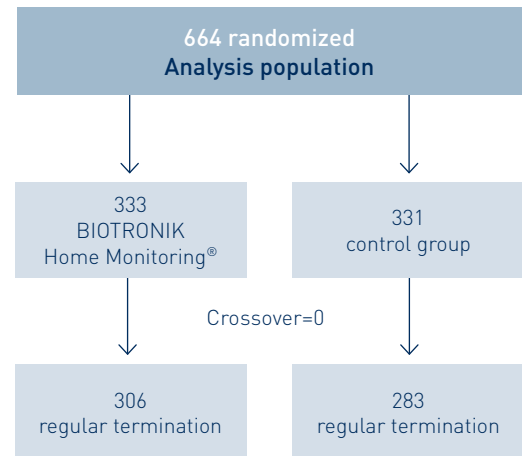
## Influence of Home Monitoring on the Clinical Status of Heart Failure Patients



HINDRICKS ET AL.,  
THE LANCET 2014

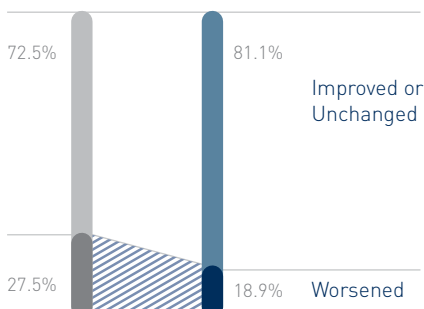
### Study Design

- Randomized, controlled, international, multicenter study
- Assesses the impact of BIOTRONIK Home Monitoring® on the clinical status of heart failure patients
- 664 patients with chronic heart failure and an ICD or CRT-D in 36 centers
- Alert triggered telephone follow-up within 48 hours
- Patients followed for 12 months



### Main Results

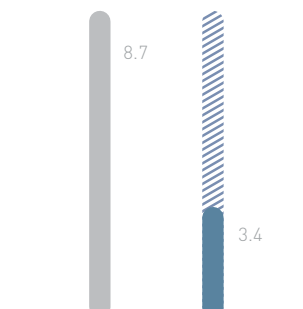
#### Heart Failure Patient Status



- Conventional Follow-Up (n=331)
- Home Monitoring Group (n=333)

**30%** Risk Reduction for Worsening of Clinical Status

#### Reduction in All-Cause Mortality

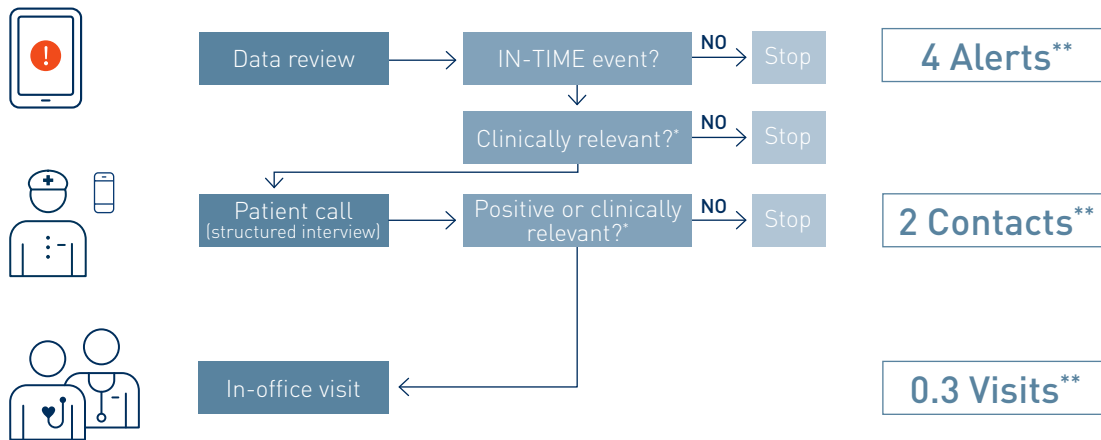


- Conventional Follow-Up (n=331)
- Home Monitoring Group (n=333)

**>50%** Mortality Reduction in Heart Failure Patients after One Year\*

\*only BIOTRONIK has CE approval to claim significant mortality reduction

# Efficient Workflow Allows Timely Evaluation of Patients' Heart Failure Status



\* Clinical discretion advised

\*\*Per patient per year

## IN-TIME Study Results Combined with Other Clinical Trial Results

### Automatic Transmission

A system to rely on



- Industry-leading transmission reliability<sup>1,2</sup>
- Plug-and-play set-up
- No patient interaction required

### Early Detection

Early detection of relevant events



- Rhythmologic and technical parameters<sup>1,3</sup>

### Timely Intervention

Continuous therapy control



- Earlier clinical intervention for arrhythmias and suboptimal device therapy<sup>1,3</sup>

### Improved Patient Outcome

Proven clinical benefits for your patients



- Early detection of clinically relevant events<sup>1,3</sup>
- Reduction in hospitalizations for atrial arrhythmia and stroke<sup>4</sup>
- Significant reduction in all-cause mortality

<sup>1</sup> Varma N. et al., TheTRUST trial. Circulation 2010, 122:325-332 <sup>2</sup> Hindricks G, et al., The Lancet. 2014;384(9943):583-590

<sup>3</sup> Varma N. et al., Europace Journal 2011, 13(3), Abstract P1026 <sup>4</sup> Mabo P. et al., The COMPAS trial. European Heart Journal 2011