

Assessment of **RE**mote **HE**Art **R**hythm Sampling using the AliveCor heart monitor to scrEen for **A**trial **F**ibrillation: **The REHEARSE-AF Study**

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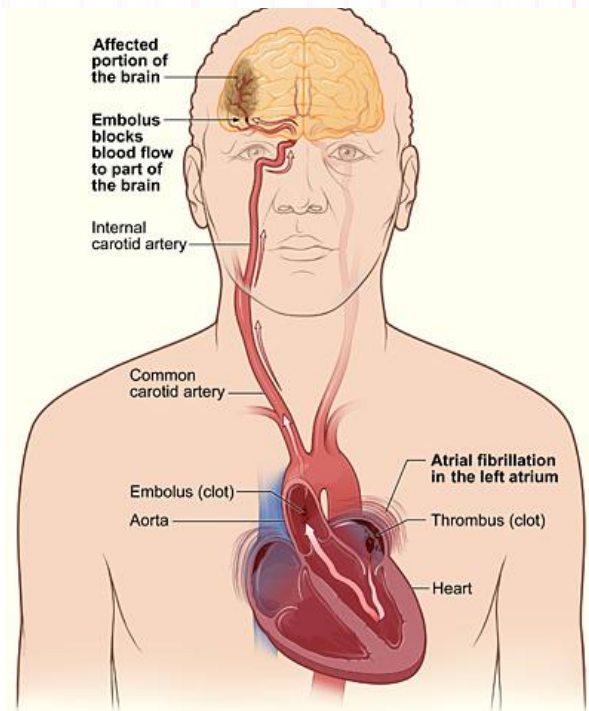
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The study data were analysed and reported independently without involvement of the company.

No investigators have received personal remuneration from AliveCor Inc.

Background: Atrial Fibrillation (AF)



- Increasingly common in ageing populations
- Predisposes to formation of cardiac thrombus
- Often Asymptomatic
- Implicated in significant % ischaemic strokes
- Effective anticoagulation can reduce AF-associated stroke risk by over 60%
- More effective identification and treatment could reduce stroke risk
- **Hypothesis: Can regular ECG monitoring over a period of a year increase detection of AF**

Conclusions

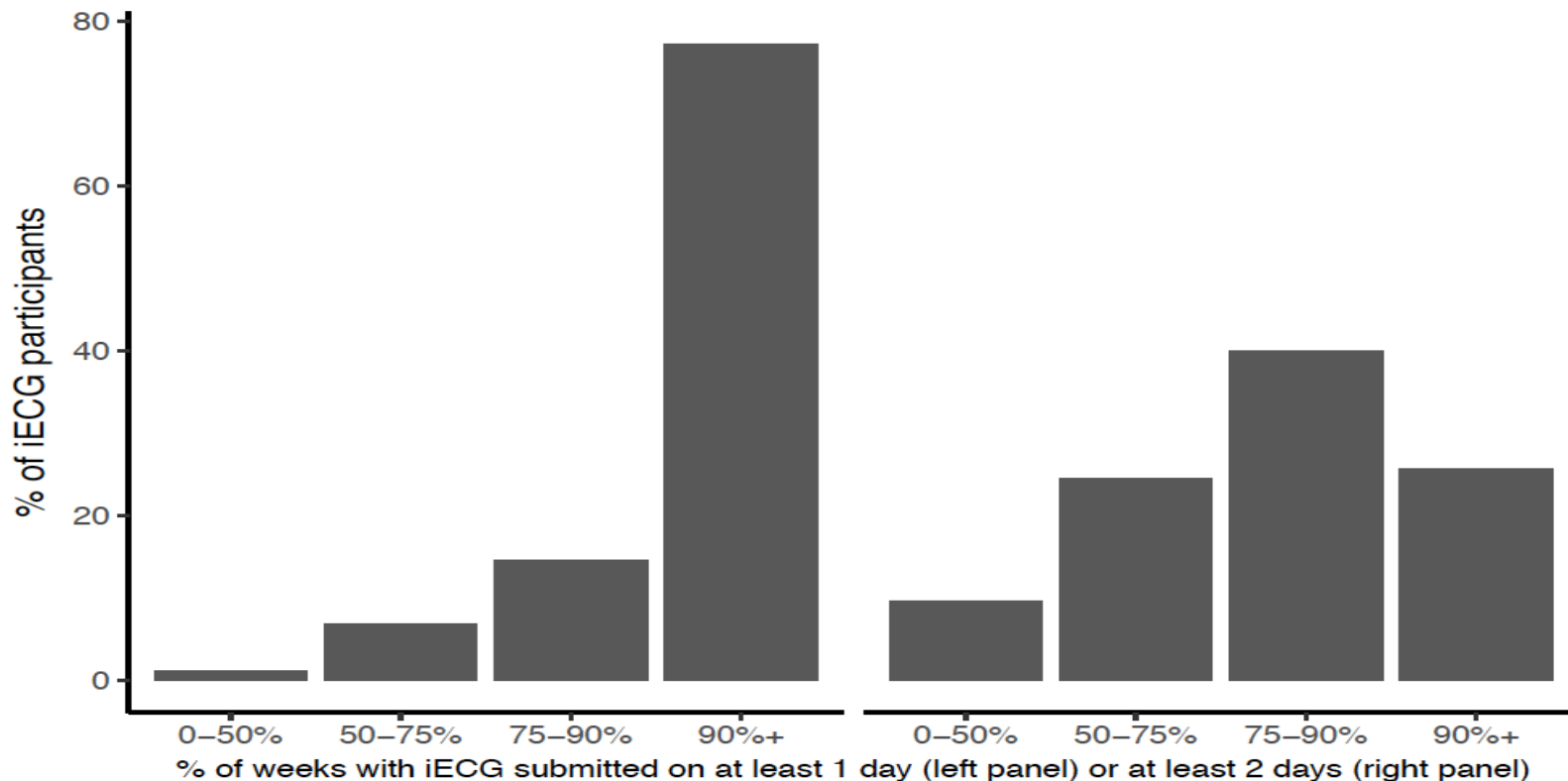
- Regular twice-weekly iECG screening in people over 65y (CHADS-VASc score ≥ 2) results in an almost four-fold increase in the diagnosis of AF over the course of a year at a cost of \approx €9000 per AF diagnosis
- Such an approach appears highly acceptable to this patient population
- Whilst these data suggest that this strategy has the potential to reduce the risk of stroke and systemic embolism, the full clinical impact and cost-effectiveness requires further evaluation in a larger, prospective outcome trial.

Study Protocol

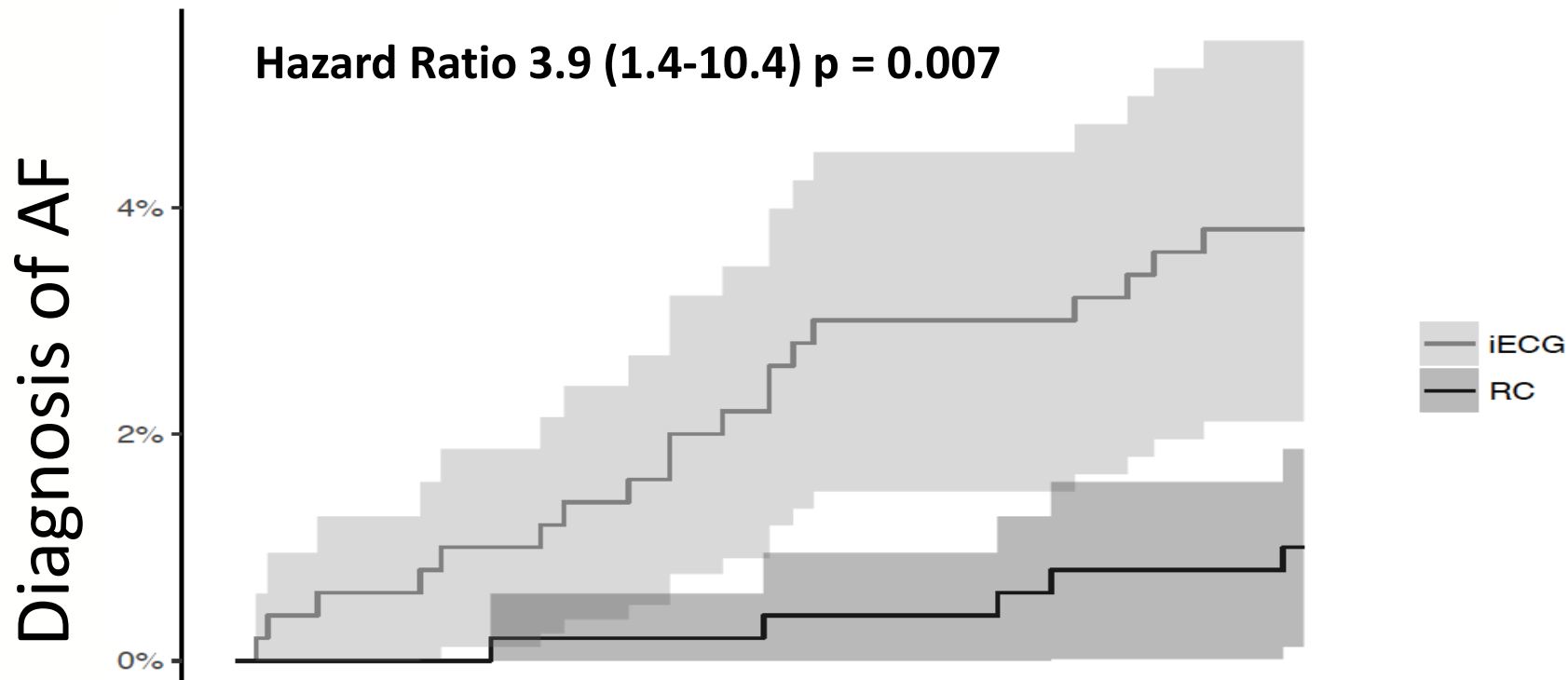
- 1001 people over 65y with ≥ 1 additional stroke risk factor. Access to the internet via Wifi.
- Randomised and followed for 1 year
 - 501 Routine Care
 - 500 Regular ECG Monitoring
 - AliveCor Kardia (iPod + Wifi) Single lead ECG Twice weekly
 - Automated Report + Human Overread



Compliance with ECG Monitoring Protocol



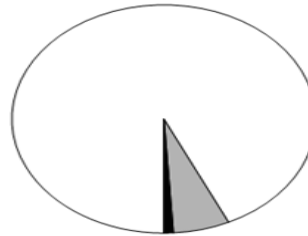
Diagnosis of AF



Cost per AF diagnosis according to iECG pathway £8,255 (€9,070)

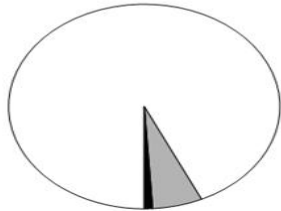
iECG Participant Experience Survey

Overall Satisfaction



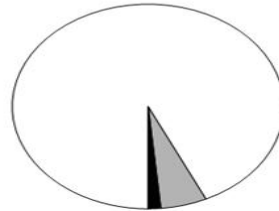
- Extremely or very satisfied
- Generally satisfied
- Slightly or not at all satisfied

Anxiety Regarding Heart Rhythm



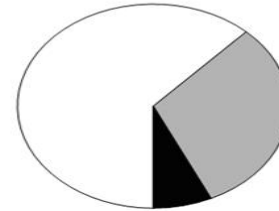
- Not at all anxious or slightly anxious
- Moderately anxious
- Very or extremely anxious

Restriction of Lifestyle



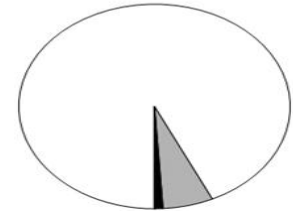
- Not at all restricted
- Slightly restricted
- Moderately or severely restricted

Confidence in Use of Device



- Extremely or very confident
- Generally confident
- Slightly or not at all confident

Acceptance of Information Sharing



- Extremely or very comfortable
- Generally comfortable
- Slightly or not at all comfortable