



TRILLIAN®

Delivering Care Closer to Home



Business case for Community based Holter study from Trillian Ltd

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- What is Cardiac Arrhythmia?
- Heart rhythm problems
 - Palpitations, noticeable heart beat, fainting, shortness of breath on exercise - due to irregular or abnormal beating of the heart
- Prevalence – 5.3% in general population
- Higher prevalence amongst older patients

Cardiac Arrhythmia



- AF – Atrial Fibrillation, irregular pulse
- Bradycardia – slow heart rate (< 60)
- Tachycardia – high heart rate (> 100)
- SVT – Supraventricular Tachycardia
- VT – Ventricular Tachycardia
- VF – Ventricular Flutter/Fibrillation
- ICD – Implantable Cardioverter Defibrillator

Vocabulary



- Sensation of Irregular, slow or quickening pulse
- Sensation of heart jump
- Dizziness
- Fatigue
- Light-headedness
- Fainting or near fainting
- Difficulty in breathing

Symptoms



- Treatable condition – If untreated (depending on the type of arrhythmia):
 - Increased risk of Stroke
 - Loss of consciousness
 - Sudden death
- Higher demand due to ageing population and due to awareness.
- More capacity needed in primary care to contain costs

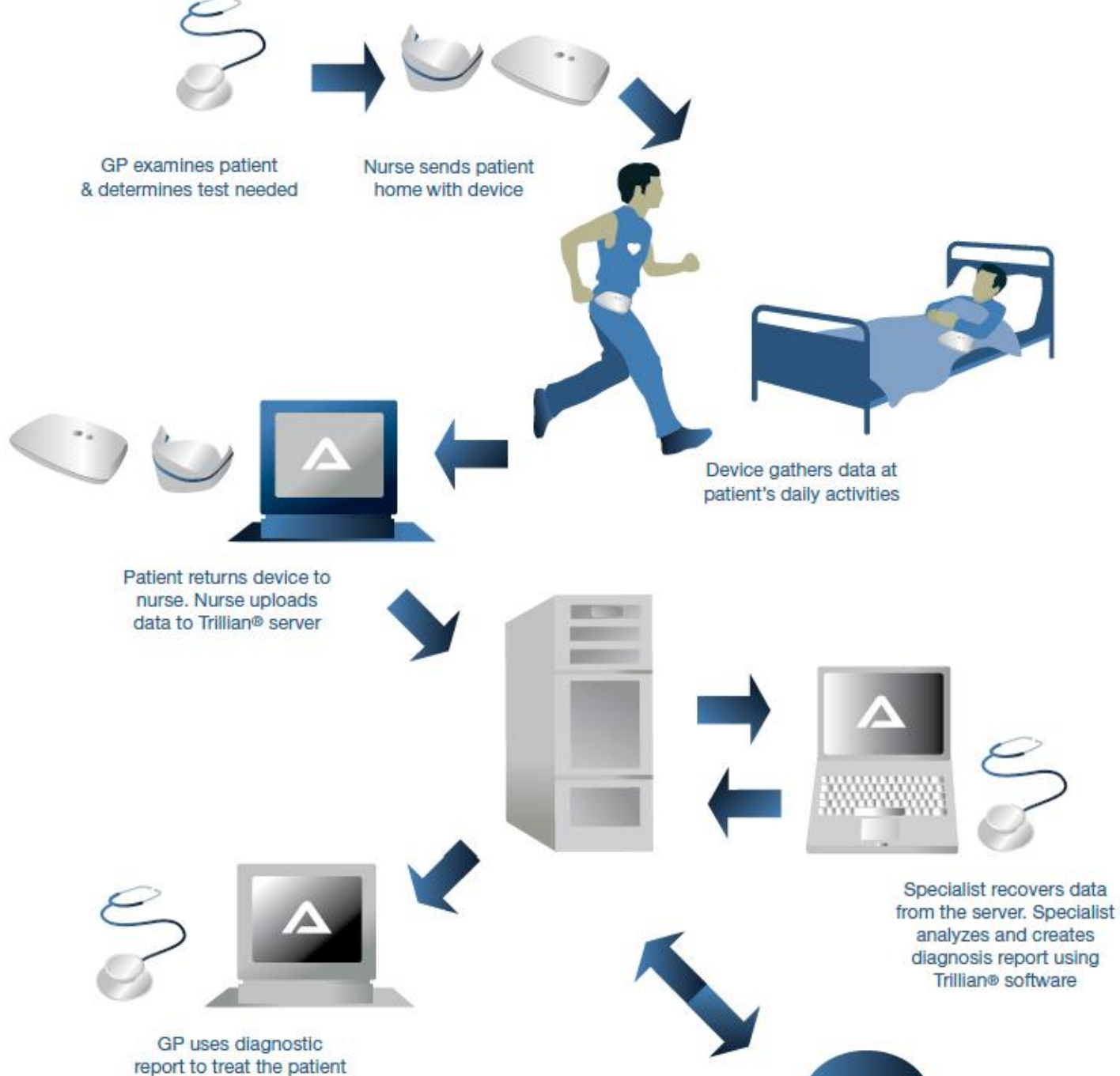
Outlook

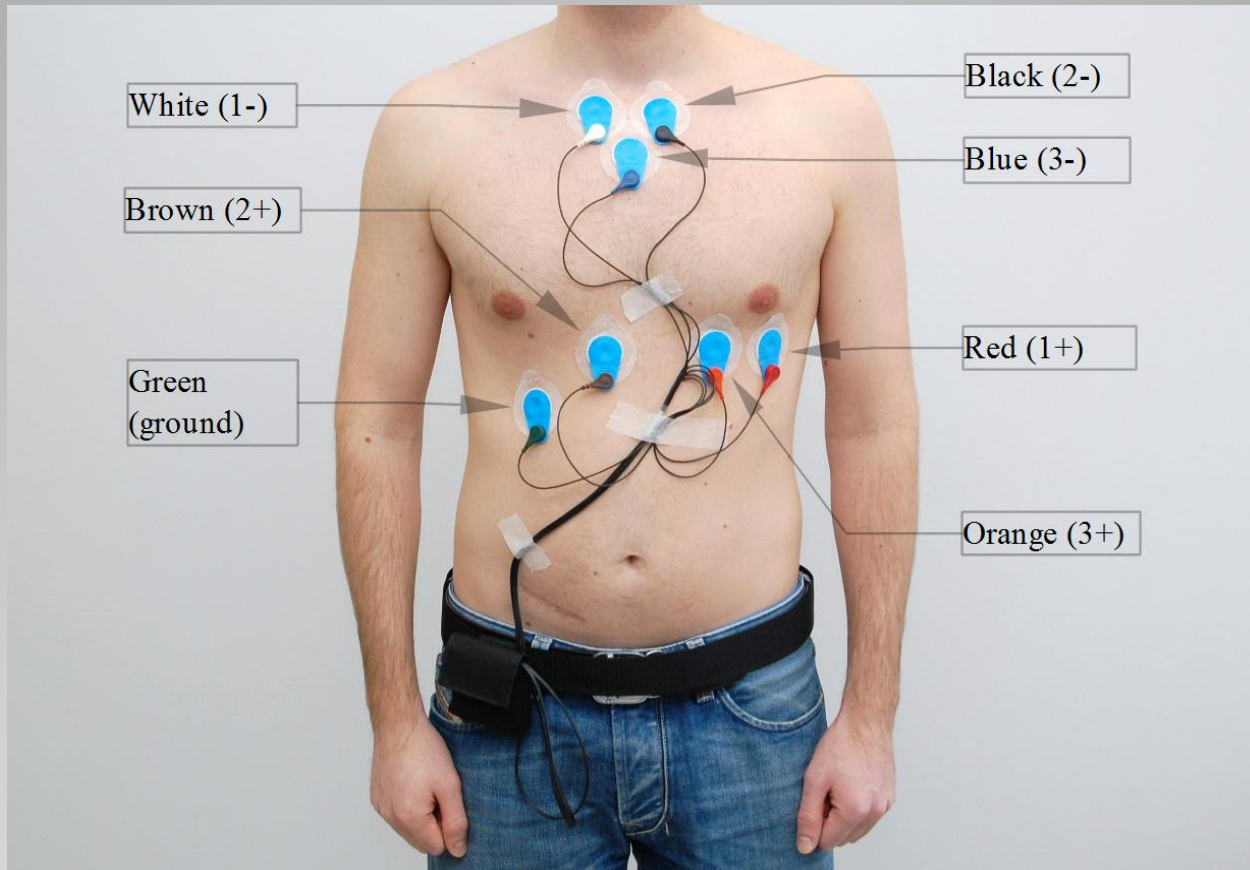


- Most cases diagnosed in consultant led out patient episodes in hospitals
- Pacemakers for frequent sinus node dysfunction, second degree AV block
- Implantable defibrillator for VF cases inserts
- Medications for several types of arrhythmia, ablation and cardioversion for AF
- Ongoing monitoring for others and
- Mild cases of arrhythmia patients need reassurance

Treatment







Device attachment





- Attach cable to device
- Insert Battery
- Previous recording erased – press key to begin
- Check signal quality for leads (Left/Right)
- Press event button to start
- Instruct patients to ensure quality recording
- Instruct in the use of the patient diary entries

Recording



- Potential savings per test over hospital based study and outpatient appointment.
- 5 day turn-around versus 3 weeks for hospital reported study
- Study report, diagnosis and recommendation from UK Consultant
- Paperless system, no snail-mail of tapes, reports
- Of the recent 12 tests during the evaluation with two practices – all were provided with recommendations on management within primary care.

Cost Benefit, UK Evaluation



- Approved technology in use in Finland for over 3 years
- Delivered 11000 tests in 2009 and 2010, expected to rise to 8000 in 2011
- UK evaluation from 2 practices
- Primary care based Holter is established practice in several regions from hospital technicians or external suppliers.
- Trillian Difference – Consultant advice as compared with results only service from competition.

Evidence



- Prevalence, symptoms, diagnosis and treatment of cardiac arrhythmia
- Increasing demand for diagnosis and treatment
- High cost when left untreated
- Expect the problem to get worse with ageing population
- Innovative Service from Trillian, easy to use, UK consultant advice and 5 day turnaround.
- Cost effective, patient convenience and practice involvement

Summary



- Please Visit
- <http://www.atrialfibrillation.org.uk/>
- <http://www.bcs.com>
- <http://www.nhs.uk/Livewell/Healthyhearts/Pages/Arrhythmias.aspx>

Thank you.
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More information

