

Making MRI available for patients with cardiac devices

Dr Anish Bhuva

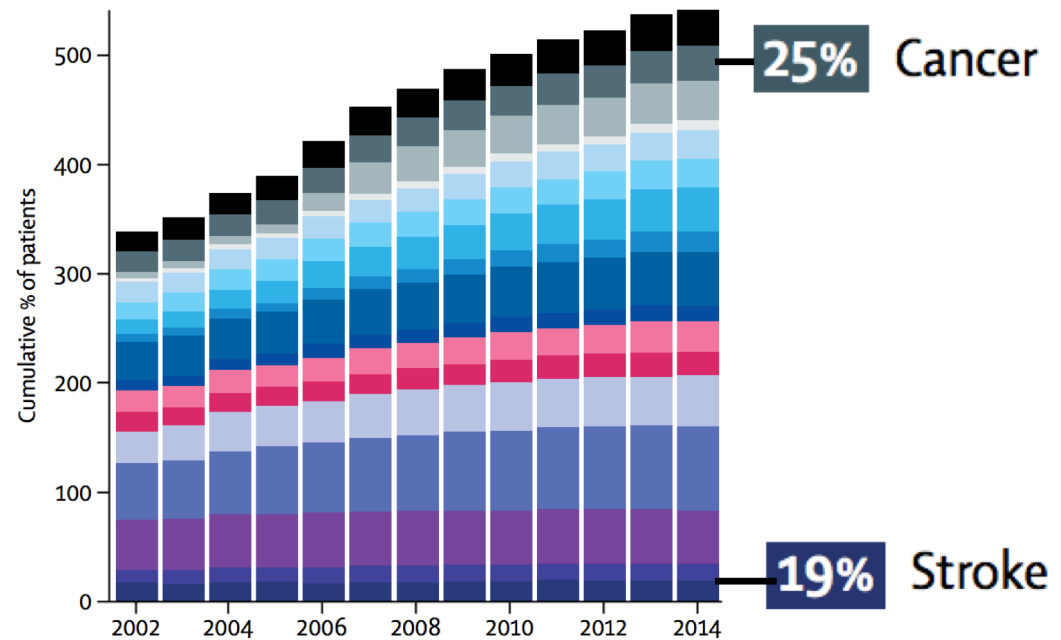


Patients are surviving heart failure



200,000 people in England
have ICD/CRTs

Prevalence of comorbidities



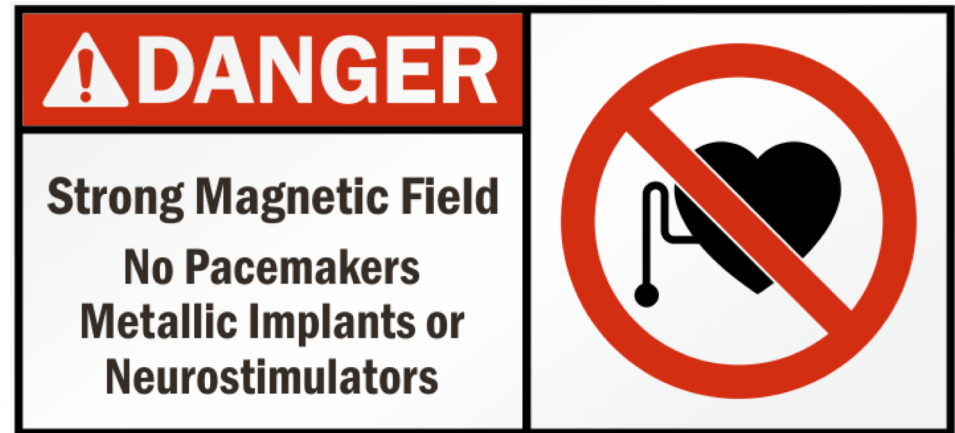
Increasing multiple co-morbidities
75% will need MRI for standard NHS care

Poor service provision across the NHS



>90% new implants are
MRI Conditional

but..



50% of centres do not provide MRI services

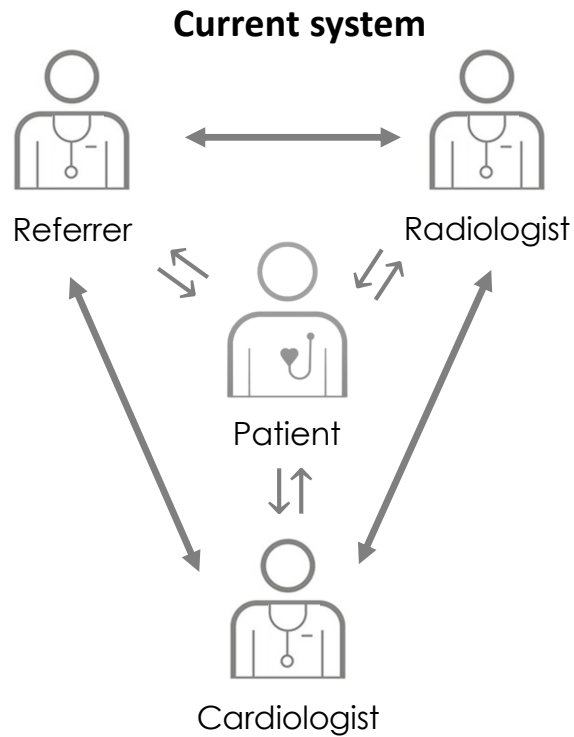
10-20 fold service under-provision

1/3 of scans are for acute or time-sensitive indications

Our goals

- To develop a **dedicated online web platform** to a streamlined pathway for MRI scans in cardiac device patients
- To build **public and clinician awareness**
 - Educational leaflets/videos with and for patients,
 - Resources for clinicians

Streamlining referrals



Average **2.5 months delays** planning scans
Logistic hurdles: patient, referrer, MRI-device teams.

New platform

Barts Heart Centre Refer a patient

Patient Details

NHS Number 4769048874	MRI Body Part HEAD	Patient Mobility WALKING	eGFR MORE THAN 60
Given name Test	Clinical Indication (Free text entry) Indication (free text entry)	Referral Type INPATIENT	eGFR taken on 01-01-2002
Surname Test	Urgent Referral? <input type="checkbox"/>	Isolation precautions NONE	Contraindications to MRI N/A
Date of Birth 03-01-1970		Pregnancy N/A	Possible contraindications N/A

MRI Conditionality

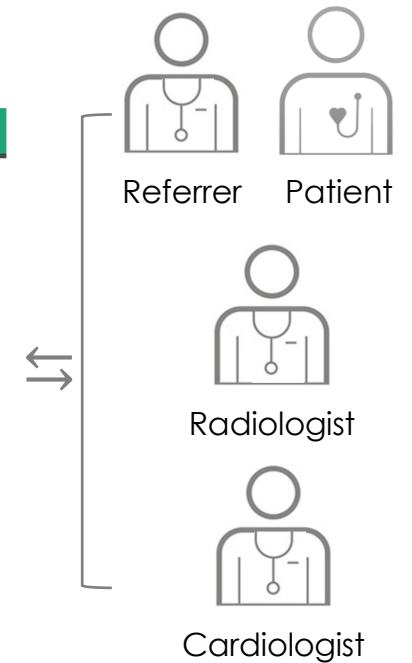
Details of the pacemaker/defibrillator manufacturer and model are needed to follow MRI protocols.

The system is:

<input type="radio"/> MRI Conditional	<input type="radio"/> Not MRI Conditional	<input type="radio"/> Don't know
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[Need help? Learn how to fill this and need more information](#)

[Back to Referral Centres](#)



Easy information access and sharing
 Patient specific device and MRI protocols

UK referrals network



Educational resources

What will happen during my scan? Before the day of the scan

- 


1

The decision to have an MRI scan is made with your doctor.
- 

2

Important: Tell your doctor and the MRI staff that you have a device.
- 

3

Give your device details or name of your pacing clinic so they can liaise with the MRI centre.
- 

4

If you have an older device your doctor may explain the benefits and risks and check you have understood.
- 

5

Ask one of the team if you have any concerns.





Thank you



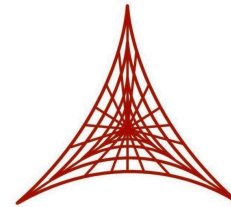
**British Heart Foundation
British Society for Heart Failure**

**Arrhythmia Alliance - Trudie Loban
Patients at Barts Heart Centre**

Tackling the health inequality
Royal College Radiology
British Cardiovascular Society
British Heart Rhythm Society
National MRI Cardiac Device Working Group
Barts Health NHS Trust



Patient resources



Web platform development

Design Science Educational resources



Anish.bhuva@nhs.net
contact@mrmypacemaker.com



