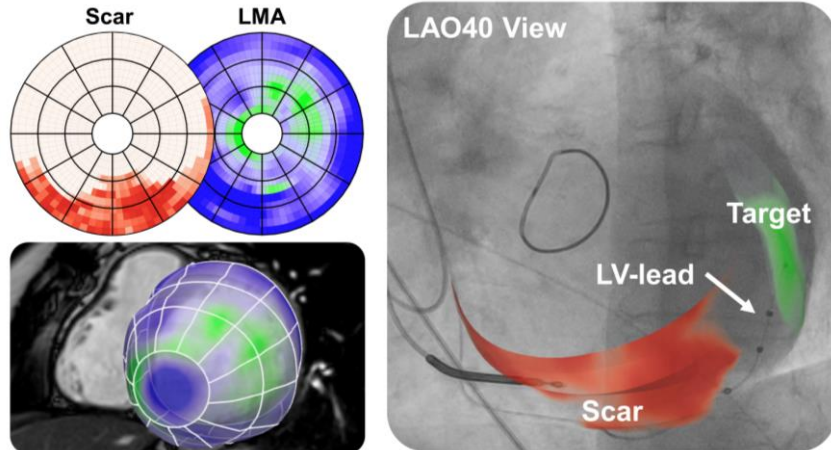


# Real-time image-guided lead placement in cardiac resynchronisation therapy: feasibility and outcome in a multicentre setting

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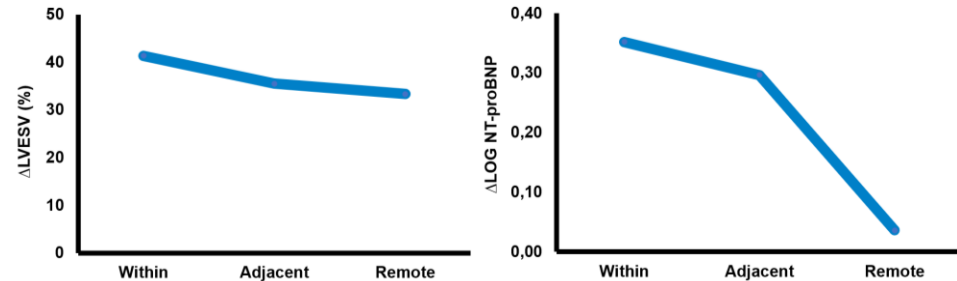
**Purpose:** To investigate the feasibility and efficacy of 'real-time' image-guidance in a *multicentre* setting.

**Methods:** In 30 patients from three hospitals, MRI was used to identify scar and late mechanical activation. Radial strain was *plotted over time, using a 36-segment model*. Segments without scar but clear LMA were deemed optimal. The LV-lead was guided, *in real-time* using model-to-image fusion with fluoroscopy.



## Results:

- Age  $66 \pm 10$  years; 59% male, 72% non-ICM; 69% LBBB.
- Dual-view fluoroscopy similar to rotational scan.
- Remote position in 3% or 24% (18- versus 36-segments).
- Echo outcome: 86% response; 66% super-response.



**Conclusions:** Live image-guidance towards a pre-defined target for lead placement in CRT was feasible in a multicentre setting, and has promising clinical results.