

## Background and Objective

- With the ever increasing in number of arrhythmia patients (new and follow-up cases) seen in device clinic, Changi General Hospital coupled with limited physical resources, there is a need to implement a strategy to improve efficiency of the clinic
- Accordingly, we sought to determine whether this particular intervention (described under methodology section) proved to be effective

## Methodology

- This is a prospective study divided into two phases

### Pre-intervention Phase

**01 July 2014 to 30 September 2014**

### Intervention Phase

**01 October 2014 to 31 March 2015**

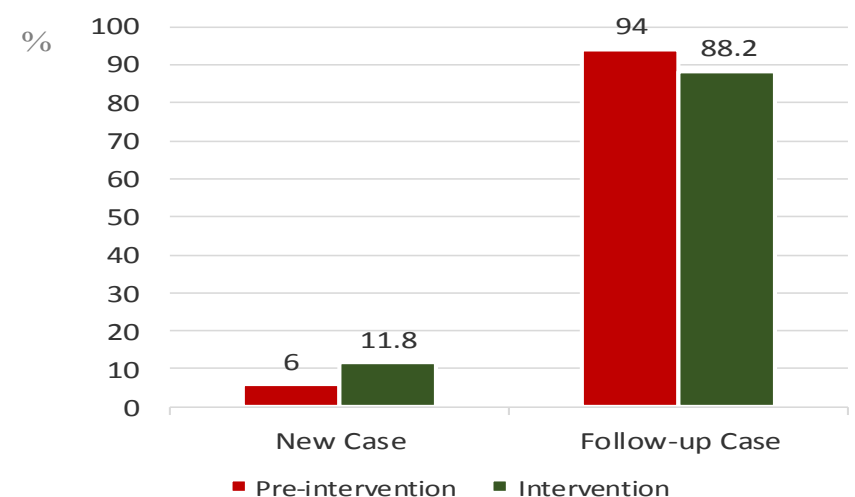
#### Intervention method:

As the follow-up cases especially patients with cardiac implantation electronic devices (CIEDs) represent up to 75% of all total patients seen in device clinic, we implemented a strategy (intervention) in which all patients with CIEDs (implanted more than 1 year with stable parameters) were given appointments at 1 year instead of every 4 to 6 months prior to implementation of this strategy

## Results

Phase	Total Clinics, n	Total Cases, n
Pre-intervention	19	285
Intervention	41	490

**Table 1: Total Number of Clinics Conducted and Patients Seen in Pre-intervention and Intervention Phase**



**Figure 1: Comparing New Cases and Follow-up Cases Pre-intervention and Intervention Phase**

Phase	Patients/clinic	New cases/clinic	Follow-up cases/clinic	p-value
Pre-intervention	15.0	0.9	14.1	0.008
Intervention	11.9	1.4	10.5	

**Table 2: Comparing Pre-intervention and Intervention Patients Clinic Ratio**

## Limitations

- Paucity of data on device related major adverse cardiovascular events (e.g. cardiac arrhythmias) especially in intervention phase

## Conclusions

This particular strategy seemed to lead to significant workflow improvement (reduction of total patients seen in each clinic with improvement in the ratio of new cases to follow-up cases) in device clinic, Changi General Hospital in the setting of ever increasing in number of arrhythmia patients coupled with limited physical resources